

## Ohlasy / Citations, reviews

**Department: SAVGEBIO - Ústav genetiky a biotechnológií rastlín SAV**  
**Date of citation, review: 2011~2014**

### Citations, reviews

Citations in Web of Science Core Collection (1.1, 2.1)	1723
Citations in SCOPUS (1.2, 2.2)	95
Citations in other citation indexes and databases (not listed above) (3.2, 4.2, 9, 10)	5
Other citations (not listed above) (3, 4, 3.1, 4.1)	111
Reviews (5, 6)	0
<b>Count</b>	<b>1934</b>

### AAA Scientific monographs published abroad

AAA01     OSTROLUCKÁ, Mária-Gabriela - GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela. Protocol for micropropagation of Quercus spp. In *Protocols for Micropropagation of Woody Trees and Fruits..* - Dordrecht : Springer, 2007, p. 85-91. ISBN 978-1-4020-6351-0.

Ohlasy:

- [3] Blasco, M. - Barra, A. - Brisa, C. - Corredoira, E. - Segura, J. - Toribio, M. - Arrillaga, I. Somatic embryogenesis in holm oak male catkins. In *Plant Growth Regul.*, 2013, 71, p. 261–270.
- [3] Konôpková J. - Bibeň, T. Propagation of two selected species of the genus Pieris D. Don. In *Folia Oecol.*, 2013, vol.40, p.192-200.
- [3] Nawrot-Chorabik, K. Somatic Embryogenesis in Forest Plants (Chapter 20). In *Embryogenesis*, 2012, ISBN 978-953-51-0466-7, p.652.
- [3] PIJUT, Paula M.- LAWSON, Shaneka S.- MICHLER, Charles H. Biotechnological efforts for preserving and enhancing temperate hardwood tree biodiversity, health, and productivity. In : *IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT*, 2011, vol.47, no. 1, p. 123-147.

AAA02     *Plant endocytosis* = Plant Cell Monographs. Editors Jozef Šamaj, František Baluška, Diedrik Menzel. Berlin-Heidelberg : Springer Verlag, 2006. 314 p. ISBN 978-3-540-28197-9.

Ohlasy:

- [1.1] WANG, L.Y. - FENG, B. - LI, P. - YANG, G. - YIN, L.P. Fusion of MxIRT1 Vesicles and Plasma Membrane is a Key Regulation Step of High Affinity Iron Transport in Response to Iron Supplement in Transgenic Yeast. In *Asian Journal of Chemistry*, 2012, vol. 24, no. 6, p. 2394-2400. ISSN 0970-7077., WOS

### ABA Monographic studies in journals and proceedings published abroad

ABA01 SALAJ, Terézia - VOOKOVÁ, Božena - SALAJ, Ján. Protocols for somatic embryogenesis of hybrid firs. In *Protocol for Somatic Embryogenesis in Woody Plants.* - Heidelberg : Springer - Verlag GmbH, 2005, s. 585, obr., tab. ISBN 1-4020-2984-5.

Ohlasy:

- [1.1] Zancani, M.- Bertolini, A.- Petrussa, E.- Krajnakova, J.- Piccolo, A.- Spaccini, R.- Vianello, A. Fulvic acid affects proliferation and maturation phases in *Abies cephalonica* embryogenic cells. In *JOURNAL OF PLANT PHYSIOLOGY*, 2011, vol.168, no. 11, p. 1226-1233.

#### **ABB Monographic studies in journals and proceedings published in Slovak publishing houses**

ABB01 GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela - OSTROLUCKÁ, Mária-Gabriela - FEJÉR, J. Aplikácia radiačnej mutagenézy v šľachtení láskavca. In *Nové poznatky z genetiky a šľachtenia polnohospodárskych rastlín. : Zborník z 12. odborného seminára 23.-24. november 2005..* - Piešťany : Výskumný ústav rastlinnej výroby, 2005, s. 185, fotogr., grafy, sch., tab. ISBN 8088790433.

Ohlasy:

- [3] Labajová, M. – Žiarovská, J. – Ražná, K. – Lancíková, V. Restriction analyze of starch synthesis genes in amaranth mutant lines. In *Pakistan Journal of Biological Sciences*, 2013, ISSN 1028-8880, 1-6.
- [3] Ražná, K. - Žiarovská, J. - Labajová M. Genome changes in mutant lines of Amaranthus as detected by microsatelite-directed PCR. In *ARPN Journal of Agricultural and Biological Science*, 2012, vol.7, no.1, p. 877-884.
- [3] Žiarovská, J. - Ražná, K. – Labajová, M. Using of Inter Microsatellite Polymorphism to evaluate gamma-irradiated Amaranth mutants. *Emir. J. Food Agric.* 2013,vol. 25, no. 9, p. 673-681.
- [4] LABAJOVÁ, MÁRIA - SENKOVÁ, SLAVOMÍRA - ŽIAROVSKÁ, JANA - RAŽNÁ, KATARÍNA - BEŽO, MILAN - ŠTEFÚNOVÁ, VERONIKA - ZELENÁKOVÁ, LUCIA. The potential of ISSR markers in amaranth gamma-radiance mutants genotyping. In *Journal of Microbiology, Biotechnology and Food Sciences*, 2011: 1 (4) p. 507-521.

#### **ABC Chapters in scientific monographs published abroad**

ABC01 GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela - FEJÉR, Jozef. Improvement of selected Amaranthus cultivars by means of mutation induction and biotechnological approaches. In *Breeding of Neglected and Under-Utilized Crops, Spices and Herbs..* - Enfield, New Hampshire : Science Publishers, p. 151-169. ISBN 978-1-57808-509-5.

Ohlasy:

- [3.1] PETER, STAMP – RAINER, MESSMER - ACHIM, WALTER. Competitive underutilized crops will depend on the state funding of breeding programmes: an opinion on the example of Europe. In *Plant Breeding* 131, 2012, 461-464.
- [3.1] Rusu, T. Vegetative development and production of some Amaranthuscultivars under the Transylvanian conditions, Romania. In *Journal of Food, Agriculture & Environment*, 2012, Vol.10 (3&4): 742-745.
- [3.1] Žiarovská, J. - Ražná, K. – Labajová, M. Using of Inter Microsatellite Polymorphism to evaluate gamma-irradiated Amaranth mutants. In *Emir. J. Food Agric.* 2013, vol.25, no. 9, p. 673-681.

ABC02      GAJDOŠOVÁ, Alena - OSTROLUCKÁ, Mária-Gabriela - LIBIAKOVÁ, Gabriela - ONDŘUŠKOVÁ, Emília. Protocol for micropropagation of *Vaccinium vitis-idaea* L. In *Protocols for Micropropagation of Woody Trees and Fruits..* - Dordrecht : Springer, 2007, p. 457-464. ISBN 978-1-4020-6351-0.

Ohlasy:

- [1.1]      Vujovic, T. - Cerovic, R. - Ruzic, Dj. Ploidy level stability of adventitious shoots of sour cherry 'aanski Rubin' and Gisela 5 cherry rootstock . In *Plant Cell Tissue and Organ Culture*, 2012, vol. 111, no. 3, p. 323-333.
- [3]      Aicha Nordine, A. - Bousta, D. - El Khanchoufi, A. - El Meskaoui, A. An efficient and rapid in vitro propagation system of *Thymus hyemalis* Lange, a wild medicinal and aromatic plant of mediterranean region. In *International Journal of Pharma Bioscience and Technology*. 2013, vol.1, no.3, p.118-129.
- [3]      Konôpková J. - Bibeň, T. Propagation of two selected species of the genus *Pieris* D. Don. In *Folia Oecol.*, 2013, vol.40, p.192-200.

ABC03      ILIEV, Ivan - GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela - JAIN, Shri Mohan. Plant micropropagation. In *Plant Cell Culture: Essential Methods.* - Hardcover : John Wiley & Sons, 2010, p. 1-23. ISBN 978-0-470-68648-5.

Ohlasy:

- [1.2]      GINOVA, A. - KONDAKOVA, Violeta. New approaches for in vitro propagation of oil-bearing rose. In *Bulgarian Journal of Agricultural Science*. ISSN 13100351, 2013-12-01, 19, 6, pp. 1198-1203., SCOPUS
- [1.2]      GINOVA, A. - TSVETKOV, Ivan I. - KONDAKOVA, Violeta. *Rosa damascena* Mill. An overview for evaluation of propagation methods. In *Bulgarian Journal of Agricultural Science*. ISSN 13100351, 2012-12-01, 18, 4, pp. 545-556., SCOPUS
- [3.1]      Nyaika, J.A. – Njoloma, J.P. – Zimba, S. – Mwase, W.F. – Maliro, M.F. – Bokosi, J.M. – Kwapata, M.B. The effectiveness of repeated shoot tip culture on pathogens load reduction in different local potato genotypes in Malawi. In *The International Journal of Biotechnology* 2014, vol. 3, no.7, pp. 91-103.

ABC04      OSTROLUCKÁ, Mária-Gabriela - GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela - HRUBÍKOVÁ, Katarína - BEŽO, M. Protocol for micropropagation of selected *Vaccinium* spp. In *Protocols for Micropropagation of Woody Trees and Fruits..* - Dordrecht : Springer, 2007, p. 445-455. ISBN 978-1-4020-6351-0.

Ohlasy:

- [1.2]      ŠPAK, Josef - PAVINGEROVÁ, Daniela - PŘIBYLOVÁ, Jaroslava - ŠPAKOVÁ, Vlastimila - PAPRŠTEIN, František - SEDLÁK, Jiří. Blueberry red ringspot virus eliminated from highbush blueberry by shoot tip culture. In *Plant Protection Science*. ISSN 12122580, 2014-01-01, 50, 4, pp. 174-178., SCOPUS
- [3.1]      ABDELNOUR, A. - AGUILAR, M.E. – VALVERDE, L. Micropagación de pilón (*Hieronyma alchorneoides*). In *Agronomía Costarricense*, ISSN:0377-9424, 2011, vol. 35, no.2, p. 9-19.
- [3.1]      Bonilla, V.J. Identificación y Valor nutricional de algunas especies nativas de arándano (*Vaccinium* spp.). In Instituto Tecnológico de Costa Rica, Informe final la Actividad de Fortalecimiento, 2011, 1-11.  
[http://bibliodigital.itcr.ac.cr/xmlui/bitstream/handle/2238/2944/Informe\\_Final.pdf?sequence=1](http://bibliodigital.itcr.ac.cr/xmlui/bitstream/handle/2238/2944/Informe_Final.pdf?sequence=1)

- [3.1] Han, K. - Hu, H. - Li, S. - Xu, H. - Lin, H.- Zhang, Q. 2013. Micropropagation of Vaccinium bracteatum Thunb. In African Journal of Biotechnology, 2013, vol. 12, no.7, p. 695-701.
- [3.1] Hine-Gómez, A. - Abdelnour-Esquivel, A. In vitro establishment of blueberry (Vaccinium corymbosum L.). In Tecnología en Marcha, 2013, 26(4), 64-71
- [3.1] Jiménez-Bonilla, V. - Abdelnour-Esquivel, A. Identification and nutritional value of some wild materials of blueberry (Vaccinium spp). In Tecnología en Marcha, 2012, 26(2), 3-8.
- [3.1] Vescan, L.A. - Pamfil, D. - Clapa, D. - Fira, A. - Sisea, C.R. - Pop, I.F. - Petri-Cele, I.V. - Ciuzan, O. - Pop, R. Efficient micropropagation protocol for highbush blueberry (Vaccinium corymbosum L.) cv. 'Elliot'. In Romanian Biotechnological Letters, 2012, vol. 17, no. 1, p. 6893-6902.
- [3.1] Wang, Yi-Wen.- Chen, Chien-Teh.- Li, Kuo-Tan. The establishment of the plantlet production of rabbiteye blueberry through tissue culture from in vitro derived leaf explants. In Journal of the Taiwan Society for Horticultural Science, 2014, vol. 60, no.1, pp. 51-63.

ABC05 PREŤOVÁ, Anna - ŠAMAJ, Jozef - OBERT, Bohuš. Cytological, Physiological and Biochemical Aspects of Somatic Embryo Formation in Flax. In *Somatic Embryogenesis..* - Berlin ; Heidelberg : Springer, 2006, p. 357. ISBN 10 3-540-28717-5.

Ohlasy:

- [9] GUO, Ling-Ling - MIAO, Shu-Kui - JI, Qiao-Ling - JIANG, Li. High Frequency Somatic Embryogenesis and Histological Observation on Linum usitatissimum L. 'Fany'. In Bulletin of Botanical Research, 2011, vol. 31, no. 3, p. 306-312.

ABC06 PREŤOVÁ, Anna - OBERT, Bohuš - BARTOŠOVÁ, Zuzana. Flax. In *Biotechnology in Agriculture and Forestry 61 : transgenic Crops VI.* - Berlin, Heidelberg : Springer-Verlag, 2007, p. 129-145. ISBN 978-3-540-71710-2.

Ohlasy:

- [1.1] Pavelek, M - Tejklova, E - Ondrej, M - Vrbova, M. Developments in fibrous flax breeding and cultivation. In HANDBOOK OF NATURAL FIBRES, VOL 1: TYPES, PROPERTIES AND FACTORS AFFECTING BREEDING AND CULTIVATION Book Series: Woodhead Publishing Series in Textiles, 2012, Iss. 118 p. 393-468., WOS

ABC07 SALAJ, Terézia - MORAVČÍKOVÁ, Jana - SALAJ, Ján. Somatic Embryogenesis in Pinus nigra Arn.: Some Physiological, Structural and Molecular Aspects. In *Somatic Embryogenesis..* - Berlin ; Heidelberg : Springer, 2006, p. 141-156. ISBN 10 3-540-28717-5.

Ohlasy:

- [1.1] Pullman, Gerald S.- Bucalo, Kylie Pine Somatic Embryogenesis Using Zygotic Embryos as Explants. In PLANT EMBRYO CULTURE: METHODS AND PROTOCOLS Book Series: Methods in Molecular Biology, 2011, vol.710, p. 267-291.

ABC08 ŠAMAJ, Jozef - BALUŠKA, František - VOIGT, Boris - VOLKMANN, Dieter - MENZEL, Diedrik. Endocytosis and acto-myosin cytoskeleton. In ŠAMAJ,

Jozef - BALUŠKA, František - MENZEL, Diedrik. *Plant endocytosis*. - Berlin-Heidelberg : Springer Verlag, 2006, p. 233-244. ISBN 978-3-540-28197-9.

Ohlasy:

- [1.1] WANG, J. - QIAN, D. - FAN, T.T. - JIA, H.L. - AN, L.Z. - XIANG, Y. Arabidopsis actin capping protein (AtCP) subunits have different expression patterns, and downregulation of AtCPB confers increased thermotolerance of Arabidopsis after heat shock stress. In *Plant Science*, 2012, vol. 193, p. 110-119. ISSN 0168-9452., WOS

#### **ADCA Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)**

ADCA01 AGRAWAL, Ganesh Kumar - HAJDUCH, Martin - GRAHAM, Katherine - THELEN, Jay J. In-depth investigation of the soybean seed - filling proteome and comparison with a parallel study of rapeseed. In *Plant Physiology*, 2008, vol. 148, no.1, p. 504-518. ISSN 0032-0889.

Ohlasy:

- [1.1] ALAM, Iftekhar - SHARMIN, Shamima Akhtar - KIM, Kyung-Hee - KIM, Yong-Goo - LEE, Jeung Joo - BAHK, Jeong Dong - LEE, Byung-Hyun. Comparative proteomic approach to identify proteins involved in flooding combined with salinity stress in soybean. In *PLANT AND SOIL*, 2011, vol.346, no.1-2, 45., WOS
- [1.1] BARVKAR, Vitthal T. - PARDESHI, Varsha C. - KALE, Sandip M. - KADOO, Narendra Y. - GIRI, Ashok P. - GUPTA, Vidya S. Proteome Profiling of Flax (*Linum usitatissimum*) Seed: Characterization of Functional Metabolic Pathways Operating during Seed Development. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2012, vol. 11, no. 12, pp. 6264., WOS
- [1.1] BOURGEOIS, Michael - JACQUIN, Francoise - CASSECUELLE, Florence - SAVOIS, Vincent - BELGHAZI, Maya - AUBERT, Gregoire - QUILLIEN, Laurence - HUART, Myriam - MARGET, Pascal - BURSTIN, Judith. A PQL (protein quantity loci) analysis of mature pea seed proteins identifies loci determining seed protein composition. In *PROTEOMICS*, 2011, vol.11, no.9, 1581., WOS
- [1.1] BROWN, Adrian P. - KROON, Johan T. M. - TOPPING, Jennifer F. - ROBSON, Joanne L. - SIMON, William J. - SLABAS, Antoni R. Components of Complex Lipid Biosynthetic Pathways in Developing Castor (*Ricinus communis*) Seeds Identified by MudPIT Analysis of Enriched Endoplasmic Reticulum. In *JOURNAL OF PROTEOME RESEARCH*, 2011, vol.10, no.8, 3565., WOS
- [1.1] CRISTINA ROMERO-RODRIGUEZ, M. - MALDONADO-ALCONADA, Ana M. - VALLEDOR, Luis - JORRIN-NOVO, Jesus V. - JORRINNOVO, JV - KOMATSU, S - WECKWERTH, W - WIENKOOP, S. Back to Osborne. Sequential Protein Extraction and LC-MS Analysis for the Characterization of the Holm Oak Seed Proteome. In *PLANT PROTEOMICS: METHODS AND PROTOCOLS*, 2ND EDITION. ISSN 1064-3745, 2014, vol. 1072, no., pp. 379., WOS
- [1.1] DAM, Svend - STOUGAARD, Jens - TABATA, S - STOUGAARD, J. Proteomics. In *LOTUS JAPONICUS GENOME*. ISSN 2199-4781, 2014, vol., no., pp. 201., WOS
- [1.1] DUSSEURT, Stephane - GUERIN, Chloe - ANDERSSON, Mariette - JOET, Thierry - TRANBARGER, Timothy J. - PIZOT, Maxime - SARAH, Gautier - OMORE, Alphonse - DURAND-GASSELIN, Tristan - MORCILLO,

- Fabienne. Comparative Transcriptome Analysis of Three Oil Palm Fruit and Seed Tissues That Differ in Oil Content and Fatty Acid Composition. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2013, vol. 162, no. 3, pp. 1337., WOS
- [1.1] GAN, Lu - ZHANG, Chun-yu - WANG, Xiao-dong - WANG, Hao - LONG, Yan - YIN, Yong-tai - LI, Dian-Rong - TIAN, Jian-Hua - LI, Zai-yun - LIN, Zhi-wei - YU, Long-Jiang - LI, Mao-Teng. Proteomic and Comparative Genomic Analysis of Two *Brassica napus* Lines Differing in Oil Content. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4965., WOS
- [1.1] HAIMI, P. - GELVONAUSKIENE, D. - STANYS, V. - BANIULIS, D. Application of rhodamine and betaine based fluorescent dyes for studying protein expression in *Malus domestica* with 2D gel electrophoresis. In *FEBS JOURNAL*. ISSN 1742-464X, 2012, vol. 279, no., pp. 80., WOS
- [1.1] HAN, Chao - YIN, Xiaojian - HE, Dongli - YANG, Pingfang. Analysis of Proteome Profile in Germinating Soybean Seed, and Its Comparison with Rice Showing the Styles of Reserves Mobilization in Different Crops. In *PLOS ONE*. ISSN 1932-6203, 2013, vol. 8, no. 2, pp., WOS
- [1.1] HOSSAIN, Zahed - KOMATSU, Setsuko - JORRINNOVO, JV - KOMATSU, S - WECKWERTH, W - WIENKOOP, S. Soybean Proteomics. In *PLANT PROTEOMICS: METHODS AND PROTOCOLS*, 2ND EDITION. ISSN 1064-3745, 2014, vol. 1072, no., pp. 315., WOS
- [1.1] HUA, Shuijin - CHEN, Zhong-Hua - ZHANG, Yaofeng - YU, Huasheng - LIN, Baogang - ZHANG, Dongqing. Chlorophyll and carbohydrate metabolism in developing siliques and seed are prerequisite to seed oil content of *Brassica napus* L. In *BOTANICAL STUDIES*. ISSN 1999-3110, 2014, vol. 55, no., pp., WOS
- [1.1] KIM, Yu Ji - LEE, Su-ji - LEE, Hye Min - LEE, Byong Won - HA, Tae Joung - BAE, Dong Won - SON, Beom-Young - KIM, Yul Ho - BAEK, Seong-Bum - KIM, Yong Chul - KIM, Sang Gon - KIM, Sun Tae. Comparative proteomics analysis of seed coat from two black colored soybean cultivars during seed development. In *PLANT OMICS*. ISSN 1836-0661, 2013, vol. 6, no. 6, pp. 456., WOS
- [1.1] LI, Wenlan - GAO, Yi - XU, Hong - ZHANG, Yu - WANG, Jianbo. A Proteomic Analysis of Seed Development in *Brassica campestris* L. In *PLOS ONE*. ISSN 1932-6203, 2012, vol. 7, no. 11, pp., WOS
- [1.1] LI, Xiaonan - RAMCHIARY, Nirala - DHANDAPANI, Vignesh - CHOI, Su Ryun - LIM, Yong Pyo - BARH, D. Omics Applications in Brassica Species. In *OMICS APPLICATIONS IN CROP SCIENCE*, 2014, vol., no., pp. 163., WOS
- [1.1] LI, Zhilan - JIANG, Yuxiao - HUA, Shuijin - REN, Yun - JIANG, Chiyu - ZHOU, Longhua - CHEN, Xiaoyang - JIANG, Lixi. Characterization of seed fatty acid accumulation in DELLA mutant lines of *Arabidopsis*. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2013, vol. 70, no. 1, pp. 27., WOS
- [1.1] NATARAJAN, Savithiry - LUTHRIA, Devanand - BAE, Hanhong - LAKSHMAN, Dilip - MITRA, Amitava. Transgenic Soybeans and Soybean Protein Analysis: An Overview. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2013, vol. 61, no. 48, pp. 11736., WOS
- [1.1] O'Rourke, Jamie A. - BOLON, Yung-Tsi - BUCCIARELLI, Bruna - VANCE, Carroll P. Legume genomics: understanding biology through DNA and RNA sequencing. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2014,

- vol. 113, no. 7, pp. 1107., WOS
- [1.1] STASZAK, Aleksandra Maria - PAWLOWSKI, Tomasz Andrzej. Proteomic Analysis of Embryogenesis and the Acquisition of Seed Dormancy in Norway Maple (*Acer platanoides L.*). In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2014, vol. 15, no. 6, pp. 10868., WOS
- [1.1] WALKER, Elsbeth L. - WATERS, Brian M. The role of transition metal homeostasis in plant seed development. In CURRENT OPINION IN PLANT BIOLOGY, 2011, vol.14, no.3, 318., WOS
- [1.1] WANG, Wei-Qing - YE, Jian-Qing - ROGOWSKA-WRZESINSKA, Adelina - WOJDYLA, Katarzyna I. - JENSEN, Ole Norregaard - MOLLER, Ian Max - SONG, Song-Quan. Proteomic Comparison between Maturation Drying and Prematurely Imposed Drying of Zea mays Seeds Reveals a Potential Role of Maturation Drying in Preparing Proteins for Seed Germination, Seedling Vigor, and Pathogen Resistance. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2014, vol. 13, no. 2, pp. 606., WOS
- [1.1] XU, Xiao-yan - FAN, Rui - ZHENG, Rui - LI, Chun-mei - YU, De-yue. Proteomic analysis of seed germination under salt stress in soybeans. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B, 2011, vol.12, no.7, 507., WOS
- [1.1] ZI, Jin - ZHANG, Jiyuan - WANG, Quanhui - ZHOU, Baojin - ZHONG, Junyan - ZHANG, Chaoliang - QIU, Xuemei - WEN, Bo - ZHANG, Shenyang - FU, Xiqin - LIN, Liang - LIU, Siqi. Stress Responsive Proteins Are Actively Regulated during Rice (*Oryza sativa*) Embryogenesis as Indicated by Quantitative Proteomics Analysis. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 9, pp., WOS
- [3.1] Chen Ting-ting; Yang Jian-chang. Research Advances in the Physiological and Biochemical Mechanism in Water-saving Irrigation Techniques for High Yield and High Efficiency of Transplanted Rice. In Zhongguo Shuidao Kexue, 2014, vol. 28, no. 1, pp. 103-110.

- ADCA02 BALUŠKA, František - ŠAMAJ, Jozef - HLAVAČKA, Andrej - KENDRICK-JONES, John - VOLKMANN, Dieter. Actin-dependent fluid-phase endocytosis in inner cortex cells of maize root apices. In *Journal of Experimental Botany*, 2004, vol. 55, no. 396, p. 463-473. ISSN 0022-0957.
- Ohlasy:
- [1.1] BANDMANN, Vera - HOMANN, Ulrike. Clathrin-independent endocytosis contributes to uptake of glucose into BY-2 protoplasts. In Plant Journal, 2012, vol.70, no.4, 578., WOS
- [1.1] BEDERSKA, Magdalena - BORUCKI, Wojciech - ZNOJEK, Ewa. Movement of fluorescent dyes Lucifer Yellow (LYCH) and carboxyfluorescein (CF) in *Medicago truncatula* Gaertn. roots and root nodules. In Symbiosis, 2012, vol. 58, no. 1-3, pp. 183. 0334-5114., WOS
- [1.1] EGGENBERGER, Kai - MINK, Christian - WADHWANI, Parvesh - ULRICH, Anne S. - NICK, Peter. Using the Peptide Bp100 as a Cell-Penetrating Tool for the Chemical Engineering of Actin Filaments within Living Plant Cells. In CHEMBIOCHEM, 2011, vol.12, no.1, 132-137., WOS
- [1.1] KRISHNAMOORTHY, Praveen - SANCHEZ-RODRIGUEZ, Clara - HEILMANN, Ingo - PERSSON, Staffan. Regulatory roles of phosphoinositides in membrane trafficking and their potential impact on cell-wall synthesis and

- re-modelling. In *Annals of Botany*, 2014, vol. 114, no. 6, pp. 1049. ISSN 0305-7364., WOS
- [1.1] MARRIOTT, Jeremy - FLORENTINE, Singarayer - RAMAN, Anantanarayanan. Effects of *Tetranychus lintearius* (Acari: Tetranychidae) on the structure and water potential in the foliage of the invasive *Ulex europaeus* (Fabaceae) in Australia. In *International Journal of Acarology*, 2013, vol. 39, no. 4, pp. 275. ISSN 0164-7954., WOS
- [1.1] MOOREN, Olivia L. - GALLETTA, Brian J. - COOPER, John A. - KORNBERG, RD. Roles for Actin Assembly in Endocytosis. In *Annual Review of Biochemistry*, vol. 81, 2012, p. 661., WOS
- [1.1] MOSCATELLI, A. - IDILLI, A. I. - RODIGHIERO, S. - CACCIANIGA, M. Inhibition of actin polymerisation by low concentration Latrunculin B affects endocytosis and alters exocytosis in shank and tip of tobacco pollen tubes. In *Plant Biology*, 2012, vol. 14, no. 5, 770., WOS
- [1.1] SAGER, Ross - LEE, Jung-Youn. Plasmodesmata in integrated cell signalling: insights from development and environmental signals and stresses. In *Journal of Experimental Botany*, 2014, vol. 65, no. 22, pp. 6337. ISSN 0022-0957., WOS
- [1.1] SCHMIDT, Susanne - RAVEN, John A. - PAUNGFOO-LONHIENNE, Chanyarat. The mixotrophic nature of photosynthetic plants. In *Functional Plant Biology*, 2013, vol. 40, no. 5, pp. 425. ISSN 1445-4408., WOS
- [1.1] SPARKES, Imogen. Recent Advances in Understanding Plant Myosin Function: Life in the Fast Lane. In *MOLECULAR PLANT*, 2011, vol. 4, no. 5, 805-812., WOS
- [1.1] VIDALI, Luis - BEZANILLA, Magdalena. Physcomitrella patens: a model for tip cell growth and differentiation. In *Current Opinion in Plant Biology*, 2012, vol. 15, no. 6, pp. 625. ISSN 1369-5266., WOS
- [1.1] WHITE, Rosemary G. - BARTON, Deborah A. The cytoskeleton in plasmodesmata: a role in intercellular transport? In *JOURNAL OF EXPERIMENTAL BOTANY*, 2011, vol. 62, no. 15, 5249-5266., WOS
- [1.1] WU, Shu-Zon - RITCHIE, Julie A. - PAN, Ai-Hong - QUATRANO, Ralph S. - BEZANILLA, Magdalena. Myosin VIII Regulates Protoneimal Patterning and Developmental Timing in the Moss *Physcomitrella patens*. In *MOLECULAR PLANT*, 2011, vol. 4, no. 5, 909-921., WOS
- [1.1] ZDYB, Anna - DEMCHENKO, Kirill - HEUMANN, Jan - MROSK, Cornelia - GRZEGANEK, Peter - GOEBEL, Cornelia - FEUSSNER, Ivo - PAWLOWSKI, Katharina - HAUSE, Bettina. Jasmonate biosynthesis in legume and actinorhizal nodules. In *NEW PHYTOLOGIST*, 2011, vol. 189, no. 2, 568-579., WOS

ADCA03 BALUŠKA, František - ŠAMAJ, Jozef - WOJTASZEK, P. - VOLKMANN, Dieter - MENZEL, Diedrik. Cytoskeleton-plasma membrane-cell wall continuum in plants. Emerging links revisited. In *Plant Physiology*, 2003, vol. 133, no. 2, p. 482-491. (5.800 - IF2002). (2003 - Current Contents). ISSN 0032-0889.

Ohlasy:

- [1.1] BHUSHAN, Deepti - JAISWAL, Dinesh Kumar - RAY, Doel - BASU, Debarati - DATTA, Asis - CHAKRABORTY, Subhra - CHAKRABORTY, Niranjan. Dehydration-Responsive Reversible and Irreversible Changes in the Extracellular Matrix: Comparative Proteomics of Chickpea Genotypes with Contrasting Tolerance. In *JOURNAL OF PROTEOME RESEARCH*, 2011,

vol.10, no.4, 2027-2046., WOS

- [1.1] DELPORTE, Fabienne - MUHOVSKI, Yordan - PRETOVA, Anna - WATILLON, Bernard. Analysis of expression profiles of selected genes associated with the regenerative property and the receptivity to gene transfer during somatic embryogenesis in *Triticum aestivum* L. In *MOLECULAR BIOLOGY REPORTS*. ISSN 0301-4851, 2013, vol. 40, no. 10, pp. 5883., WOS
- [1.1] DUBAS, Ewa - CUSTERS, Jan - KIEFT, Henk - WEDZONY, Maria - VAN LAMMEREN, Andre A. M. Characterization of polarity development through 2-and 3-D imaging during the initial phase of microspore embryogenesis in *Brassica napus* L. In *PROTOPLASMA*. ISSN 0033-183X, 2014, vol. 251, no. 1, pp. 103., WOS
- [1.1] CHOU, Cherng-Tzeh - BHAWAL, Ujjal K. - WATANABE, Nobuyuki - KUBOYAMA, Noboru - CHANG, Wei-Jen - LEE, Sheng-Yang - ABIKO, Yoshimitsu. Expression of caveolin-1 in the early phase of beta-TCP implanted in dog mandible. In *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS*. ISSN 1552-4973, 2013, vol. 101B, no. 5, pp. 804., WOS
- [1.1] KAYE, Yuval - GOLANI, Yael - SINGER, Yaniv - LESHEM, Yehoram - COHEN, Gil - ERCETIN, Mustafa - GILLASPY, Glenda - LEVINE, Alex. Inositol Polyphosphate 5-Phosphatase7 Regulates the Production of Reactive Oxygen Species and Salt Tolerance in *Arabidopsis*. In *PLANT PHYSIOLOGY*, 2011, vol.157, no.1, 229-241., WOS
- [1.1] LEE, Sang Hun - LEE, Yu Jin - HAN, Ho Jae. Role of Hypoxia-Induced Fibronectin-Integrin beta 1 Expression in Embryonic Stem Cell Proliferation and Migration: Involvement of PI3K/Akt and FAK. In *JOURNAL OF CELLULAR PHYSIOLOGY*, 2011, vol.226, no.2, 484-493., WOS
- [1.1] LEE, Sang Hun - LEE, Yu Jin - PARK, Sung Won - KIM, Hyoung Seok - HAN, Ho Jae. Caveolin-1 and Integrin beta 1 Regulate Embryonic Stem Cell Proliferation via p38 MAPK and FAK in High Glucose. In *JOURNAL OF CELLULAR PHYSIOLOGY*, 2011, vol.226, no.7, 1850-1859., WOS
- [1.1] LI, Wenbo - GUAN, Qingmei - WANG, Zhen-Yu - WANG, Yingdian - ZHU, Jianhua. A Bi-Functional Xyloglucan Galactosyltransferase Is an Indispensable Salt Stress Tolerance Determinant in *Arabidopsis*. In *MOLECULAR PLANT*. ISSN 1674-2052, 2013, vol. 6, no. 4, pp. 1344., WOS
- [1.1] LU, Bing - WANG, Juan - ZHANG, Yu - WANG, Hongcheng - LIANG, Jiansheng - ZHANG, Jianhua. AT14A mediates the cell wall-plasma membrane-cytoskeleton continuum in *Arabidopsis thaliana* cells. In *JOURNAL OF EXPERIMENTAL BOTANY*, 2012, vol.63, no.11, 4061., WOS
- [1.1] MALINSKY, Jan - OPEKAROVA, Miroslava - GROSSMANN, Guido - TANNER, Widmar - MERCHANT, SS. Membrane Microdomains, Rafts, and Detergent-Resistant Membranes in Plants and Fungi. In *ANNUAL REVIEW OF PLANT BIOLOGY*, VOL 64. ISSN 1543-5008, 2013, vol. 64, no., pp. 501., WOS
- [1.1] MARTINIÈRE, Alexandre - GAYRAL, Philippe - HAWES, Chris - RUNIONS, John. Building bridges: formin1 of *Arabidopsis* forms a connection between the cell wall and the actin cytoskeleton. In *PLANT JOURNAL*, 2011, vol.66, no.2, 354-365., WOS
- [1.1] NICK, Peter. Microtubules, signalling and abiotic stress. In *PLANT JOURNAL*. ISSN 0960-7412, 2013, vol. 75, no. 2, pp. 309., WOS
- [1.1] OCHS, Julie - LARUE, Therese - TINAZ, Berke - YONGUE, Camille -

DOMOZYCH, David S. The cortical cytoskeletal network and cell-wall dynamics in the unicellular charophycean green alga *Penium margaritaceum*. In ANNALS OF BOTANY. ISSN 0305-7364, 2014, vol. 114, no. 6, pp. 1237., WOS

[1.1] OIWA, Yuki - KITAYAMA, Kahori - KOBAYASHI, Masaru - MATOH, Toru. Boron deprivation immediately causes cell death in growing roots of *Arabidopsis thaliana* (L.) Heynh. In SOIL SCIENCE AND PLANT NUTRITION. ISSN 0038-0768, 2013, vol. 59, no. 4, pp. 621., WOS

[1.1] PILARSKA, Maria - KNOX, J. Paul - KONIECZNY, Robert. Arabinogalactan-protein and pectin epitopes in relation to an extracellular matrix surface network and somatic embryogenesis and callogenesis in *Trifolium nigrescens* Viv. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2013, vol. 115, no. 1, pp. 35., WOS

[1.1] SALA, K. - POTOCKA, I. - KURCZYNKA, E. Spatio-temporal distribution and methyl-esterification of pectic epitopes provide evidence of developmental regulation of pectins during somatic embryogenesis in *Arabidopsis thaliana*. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2013, vol. 57, no. 3, pp. 410., WOS

[1.1] SHARMA, Rita - TAN, Feng - JUNG, Ki-Hong - SHARMA, Manoj K. - PENG, Zhaohua - RONALD, Pamela C. Transcriptional dynamics during cell wall removal and regeneration reveals key genes involved in cell wall development in rice. In PLANT MOLECULAR BIOLOGY, 2011, vol. 77, no.4-5, 391-406., WOS

[1.1] TOCQUARD, Kevin - LAFON-PLACETTE, Clement - AUGUIN, Daniel - MURIES, Beatriz - BRONNER, Gisele - LOPEZ, David - FUMANAL, Boris - FRANCHEL, Jerome - BOURGERIE, Sylvain - MAURY, Stephane - LABEL, Philippe - JULIEN, Jean-Louis - ROECKEL-DREVET, Patricia - VENISSE, Jean-Stephane. In silico study of wall-associated kinase family reveals large-scale genomic expansion potentially connected with functional diversification in *Populus*. In TREE GENETICS & GENOMES. ISSN 1614-2942, 2014, vol. 10, no. 5, pp. 1135., WOS

[1.1] UMA, Battepati - RANI, T. Swaroopa - PODILE, Appa Rao. Warriors at the gate that never sleep: Non-host resistance in plants. In JOURNAL OF PLANT PHYSIOLOGY, 2011, vol.168, no.18, 2141-2152., WOS

[1.1] YEMETS, Alla I. - KRASYLENKO, Yuliya A. - LYTVYN, Dmytro I. - SHEREMET, Yarina A. - BLUME, Yaroslav B. Nitric oxide signalling via cytoskeleton in plants. In PLANT SCIENCE, 2011, vol.181, no.5, 545-554., WOS

[1.1] YU, Miao - ZHAO, Jie. The cytological changes of tobacco zygote and proembryo cells induced by beta-glucosyl Yariv reagent suggest the involvement of arabinogalactan proteins in cell division and cell plate formation. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2012, vol. 12, no., pp., WOS

[1.1] ZABAN, Beatrix - MAISCH, Jan - NICK, Peter. Dynamic Actin Controls Polarity Induction de novo in Protoplasts. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY. ISSN 1672-9072, 2013, vol. 55, no. 2, pp. 142., WOS

ADCA04 BALUŠKA, František - HLAVAČKA, Andrej - ŠAMAJ, Jozef - PALME, Klaus - ROBINSON, D. G. - MATOH, T. - MCCURDY, D. W. - MENZEL, Diedrik - VOLKMANN, Dieter. F-actin-dependent endocytosis of cell wall pectins

in meristematic root cells. Insights from brefeldin A-induced compartments. In *Plant Physiology*, 2002, vol. 130, no. 2, p. 422-431. (5.105 - IF2001). (2002 - Current Contents). ISSN 0032-0889.

Ohlasy:

- [1.1] BASHLINE, Logan - LEI, Lei - LI, Shundai - GU, Ying. Cell Wall, Cytoskeleton, and Cell Expansion in Higher Plants. In *MOLECULAR PLANT*. ISSN 1674-2052, 2014, vol. 7, no. 4, pp. 586., WOS
- [1.1] BASHLINE, Logan - LI, Shundai - ANDERSON, Charles T. - LEI, Lei - GU, Ying. The Endocytosis of Cellulose Synthase in Arabidopsis Is Dependent on mu 2, a Clathrin-Mediated Endocytosis Adapton. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2013, vol. 163, no. 1, pp. 150., WOS
- [1.1] COLE, Rex A. - MCINALLY, Samantha A. - FOWLER, John E. Developmentally distinct activities of the exocyst enable rapid cell elongation and determine meristem size during primary root growth in Arabidopsis. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2014, vol. 14, no., pp., WOS
- [1.1] DURBAK, Amanda R. - PHILLIPS, Kimberly A. - PIKE, Sharon - O&APOS;NEILL, MalcolmA. - MARES, Jonathan - GALLAVOTTI, Andrea - MALCOMBER, Simon T. - GASSMANN, Walter - MCSTEEEN, Paula. Transport of Boron by the tassel-less1 Aquaporin Is Critical for Vegetative and Reproductive Development in Maize. In *PLANT CELL*. ISSN 1040-4651, 2014, vol. 26, no. 7, pp. 2978., WOS
- [1.1] DYACHOK, Julia - ZHU, Ling - LIAO, Fuqi - HE, Ji - HUQ, Enamul - BLANCAFLOR, Elison B. SCAR Mediates Light-Induced Root Elongation in Arabidopsis through Photoreceptors and Proteasomes. In *PLANT CELL*, 2011, vol.23, no.10, 3610-3626., WOS
- [1.1] EK-RAMOS, Maria J. - AVILA, Julian - DITTRICH, Anna C. Nelson - SU, Dongyin - GRAY, Joel W. - DEVARENNE, Timothy P. The Tomato Cell Death Suppressor Adi3 Is Restricted to the Endosomal System in Response to the *Pseudomonas syringae* Effector Protein AvrPto. In *PLOS ONE*. ISSN 1932-6203, 2014, vol. 9, no. 10, pp., WOS
- [1.1] ETXEBERRIA, Ed - POZUETA-ROMERO, Javier - GONZALEZ, Pedro. In and out of the plant storage vacuole. In *PLANT SCIENCE*, 2012, vol.190, no., 52., WOS
- [1.1] HEPLER, Peter K. - ROUNDS, Caleb M. - WINSHIP, Lawrence J. Control of Cell Wall Extensibility during Pollen Tube Growth. In *MOLECULAR PLANT*. ISSN 1674-2052, 2013, vol. 6, no. 4, pp. 998., WOS
- [1.1] HU, Min - QIU, Zonghao - ZHOU, Peng - XU, Lingfei - ZHANG, Junke. Proteomic analysis of 'Zaosu' pear (*Pyrus bretschneideri* Rehd.) and its red skin bud mutation . In *PROTEOME SCIENCE*. 2012, vol. 10, ISSN 1477-5956., WOS
- [1.1] IVAKOV, Alexander - PERSSON, Staffan. Plant cell shape: modulators and measurements. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] KITAKURA, Saeko - VANNESTE, Steffen - ROBERT, Stephanie - LOFKE, Christian - TEICHMANN, Thomas - TANAKA, Hirokazu - FRIML, Jiri. Clathrin Mediates Endocytosis and Polar Distribution of PIN Auxin Transporters in Arabidopsis. In *PLANT CELL*, 2011, vol.23, no.5, 1920-1931., WOS
- [1.1] KLIMA, A. - FOISSNER, I. Actin-dependent deposition of putative endosomes and endoplasmic reticulum during early stages of wound healing in

characean internodal cells. In PLANT BIOLOGY, 2011, vol.13, no.4, 590-601., WOS

- [1.1] KRZESLOWSKA, Magdalena. The cell wall in plant cell response to trace metals: polysaccharide remodeling and its role in defense strategy. In ACTA PHYSIOLOGIAE PLANTARUM, 2011, vol.33, no.1, 35-51., WOS
- [1.1] LARSON, Emily R. - DOMOZYCH, David S. - TIERNEY, Mary L. SNARE VTI13 plays a unique role in endosomal trafficking pathways associated with the vacuole and is essential for cell wall organization and root hair growth in arabidopsis. In ANNALS OF BOTANY. ISSN 0305-7364, 2014, vol. 114, no. 6, pp. 1147., WOS
- [1.1] LOMBARDO, M. C. - LAMATTINA, L. Nitric oxide is essential for vesicle formation and trafficking in Arabidopsis root hairgrowth. In JOURNAL OF EXPERIMENTAL BOTANY, 2012, vol.63, no.13, 4875., WOS
- [1.1] LUNN, Daniel - GADDIPATI, Sanyasi R. - TUCKER, Gregory A. - LYCETT, Grantley W. Null Mutants of Individual RABA Genes Impact the Proportion of Different Cell Wall Components in Stem Tissue of Arabidopsis thaliana. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 10, pp., WOS
- [1.1] LUNN, Daniel - PHAN, Thanh D. - TUCKER, Gregory A. - LYCETT, Grantley W. Cell wall composition of tomato fruit changes during development and inhibition of vesicle trafficking is associated with reduced pectin levels and reduced softening. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2013, vol. 66, no., pp. 91., WOS
- [1.1] MIART, Fabien - DESPREZ, Thierry - BIOT, Eric - MORIN, Halima - BELCRAM, Katia - HOEFTE, Herman - GONNEAU, Martine - VERNHETTES, Samantha. Spatio-temporal analysis of cellulose synthesis during cell plate formation in Arabidopsis. In PLANT JOURNAL. ISSN 0960-7412, 2014, vol. 77, no. 1, pp. 71., WOS
- [1.1] MOOREN, Olivia L. - GALLETTA, Brian J. - COOPER, John A. - KORNBERG, RD. Roles for Actin Assembly in Endocytosis. In ANNUAL REVIEW OF BIOCHEMISTRY, 2012, vol.81, no., 661., WOS
- [1.1] MOSCATELLI, A. - IDILLI, A. I. - RODIGHIERO, S. - CACCIANIGA, M. Inhibition of actin polymerisation by low concentration Latrunculin B affects endocytosis and alters exocytosis in shank and tip of tobacco pollen tubes. In PLANT BIOLOGY, 2012, vol.14, no.5, 770., WOS
- [1.1] NODZYNSKI, Tomasz - FERARU, Mugurel I. - HIRSCH, Sibylle - DE RYCKE, Riet - NICULAES, Claudiu - BOERJAN, Wout - VAN LEENE, Jelle - DE JAEGER, Geert - VANNESTE, Steffen - FRIML, Jiri. Retromer Subunits VPS35A and VPS29 Mediate Prevacuolar Compartment (PVC) Function in Arabidopsis. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 6, pp. 1849., WOS
- [1.1] PLACHNO, Bartosz Jan - SWIATEK, Piotr - KOZIERADZKA-KISZKURNO, Malgorzata. The F-actin cytoskeleton in syncytia from non-clonal progenitor cells. In PROTOPLASMA, 2011, vol.248, no.3, 623-629., WOS
- [1.1] PLETT, Jonathan M. - KEMPPAINEN, Minna - KALE, Shiv D. - KOHLER, Annegret - LEGUE, Valerie - BRUN, Annick - TYLER, Brett M. - PARDO, Alejandro G. - MARTIN, Francis. A Secreted Effector Protein of Laccaria bicolor Is Required for Symbiosis Development. In CURRENT BIOLOGY, 2011, vol.21, no.14, 1197-1203., WOS
- [1.1] QIN, Yuan - YANG, Zhenbiao. Rapid tip growth: Insights from pollen

- tubes. In SEMINARS IN CELL & DEVELOPMENTAL BIOLOGY, 2011, vol.22, no.8, 816-824., WOS
- [1.1] REIS HODECKER, Barbara Elias - DE BARROS, Nairam Felix - DA SILVA, Ivo Ribeiro - DIOLA, Valdir - SOUZA SARKIS, Jorge Eduardo - LOUREIRO, Marcelo Ehlers. Boron delays dehydration and stimulates root growth in *Eucalyptus urophylla* (Blake, ST) under osmotic stress. In PLANT AND SOIL. ISSN 0032-079X, 2014, vol. 384, no. 1-2, pp. 185., WOS
- [1.1] SAMPATHKUMAR, Arun - GUTIERREZ, Ryan - MCFARLANE, Heather E. - BRINGMANN, Martin - LINDEBOOM, Jelmer - EMONS, Anne-Mie - SAMUELS, Lacey - KETELAAR, Tijs - EHRHARDT, David W. - PERSSON, Staffan. Patterning and Lifetime of Plasma Membrane-Localized Cellulose Synthase Is Dependent on Actin Organization in *Arabidopsis* Interphase Cells. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2013, vol. 162, no. 2, pp. 675., WOS
- [1.1] SATO-IZAWA, Kanna - NAKABA, Satoshi - TAMURA, Katsunori - YAMAGISHI, Yusuke - NAKANO, Yoshimi - NISHIKUBO, Nobuyuki - KAWAI, Shinya - KAJITA, Shinya - ASHIKARI, Motoyuki - FUNADA, Ryo - KATAYAMA, Yoshihiro - KITANO, Hidemi. DWARF50 (D50), a rice (*Oryza sativa* L.) gene encoding inositol polyphosphate 5-phosphatase, is required for proper development of intercalary meristem. In PLANT CELL AND ENVIRONMENT, 2012, vol.35, no.11, 2031., WOS
- [1.1] SUAREZ, Cynthia - ZIENKIEWICZ, Agnieszka - CASTRO, Antonio J. - ZIENKIEWICZ, Krzysztof - MAJEWSKA-SAWKA, Anna - ISABEL RODRIGUEZ-GARCIA, Maria. Cellular localization and levels of pectins and arabinogalactan proteins in olive (*Olea europaea* L.) pistil tissues during development: implications for pollen-pistil interaction. In PLANTA. ISSN 0032-0935, 2013, vol. 237, no. 1, pp. 305., WOS
- [1.1] URBINA, Daniela - PEREZ-HENRIQUEZ, Patricio - NORAMBUENA, Lorena - HICKS, GR - ROBERT, S. The Use of Multidrug Approach to Uncover New Players of the Endomembrane System Trafficking Machinery. In PLANT CHEMICAL GENOMICS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2014, vol. 1056, no., pp. 131., WOS
- [1.1] VICENTE, Ariel R. - MANGANARIS, George A. - MINAS, Ioannis S. - GOULAS, Vlasios - LAFUENTE, Maria T. Cell wall modifications and ethylene-induced tolerance to non-chilling peel pitting in citrus fruit. In PLANT SCIENCE. ISSN 0168-9452, 2013, vol. 210, no., pp. 46., WOS
- [1.1] WOLF, Sebastian - HEMATY, Kian - HOEFTE, Herman - MERCHANT, SS. Growth Control and Cell Wall Signaling in Plants. In ANNUAL REVIEW OF PLANT BIOLOGY, VOL 63, 2012, vol.63, no., 381., WOS
- [1.1] ZENG, Mu-Heng - LIU, Sheng-Hong - YANG, Miao-Xian - ZHANG, Ya-Jun - LIANG, Jia-Yong - WAN, Xiao-Rong - LIANG, Hong. Characterization of a Gene Encoding Clathrin Heavy Chain in Maize Up-Regulated by Salicylic Acid, Abscisic Acid and High Boron Supply. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2013, vol. 14, no. 7, pp. 15179., WOS

ADCA05      BALUŠKA, František - JÁSIK, Ján - EDELMANN, Hans G. - SALAJ, Terézia - VOLKMANN, Dieter. Latrunculin B-induced plant dwarfism: plant cell elongation

is F-actin-dependent. In *Developmental Biology*, 2001, vol. 231, no. 1, p. 113-124. (5.540 - IF2000). ISSN 0012-1606.

Ohlasy:

- [1.1] AKKERMAN, Miriam - OVERDIJK, Elysa J. R. - SCHEL, Jan H. N. - EMONS, Anne Mie C. - KETELAAR, Tijs. Golgi Body Motility in the Plant Cell Cortex Correlates with Actin Cytoskeleton Organization. In *PLANT AND CELL PHYSIOLOGY*, 2011, vol.52, no.10, 1844., WOS
- [1.1] DELANO-FRIER, John P. - AVILES-ARNAUT, Hamlet - CASARRUBIAS-CASTILLO, Kena - CASIQUE-ARROYO, Gabriela - CASTRILLON-ARBELAEZ, Paula A. - HERRERA-ESTRELLA, Luis - MASSANGE-SANCHEZ, Julio - MARTINEZ-GALLARDO, Norma A. - PARRA-COTA, Fannie I. - VARGAS-ORTIZ, Erandi - ESTRADA-HERNANDEZ, Maria G. Transcriptomic analysis of grain amaranth (*Amaranthus hypochondriacus*) using 454 pyrosequencing: comparison with *A. tuberculatus*, expression profiling in stems and in response to biotic and abiotic stress. In *BMC GENOMICS*, 2011, vol.12, no., WOS
- [1.1] HAO, Xinyuan - LI, Hongli - HUA, Yuan - YU, Ke - WALTER, Monika - QI, Tuo - ZHANG, Bing - MA, Qing. Actin dynamic polymerization is required for the expression of nonhost resistance in pepper against *Blumeria graminis* f. sp *tritici*. In *Physiological and Molecular Plant Pathology*, 2014, vol. 86, no., pp. 64. ISSN 0885-5765., WOS
- [1.1] KASPROWICZ, Anna - SMOLARKIEWICZ, Michalina - WIERZCHOWIECKA, Magdalena - MICHALAK, Michal - WOJTASZEK, Przemyslaw - WOJTASZEK, P. Introduction: Tensegral World of Plants. In *MECHANICAL INTEGRATION OF PLANT CELLS AND PLANTS*, 2011, vol., no., 1., WOS
- [1.1] KOZIERADZKA-KISZKURNO, Magorzata - SWIERCZYNSKA, Joanna - BOHDANOWICZ, Jerzy. Embryogenesis in *Sedum acre* L.: structural and immunocytochemical aspects of suspensor development. In *Protoplasma*, 2011, vol.248, no.4, 775., WOS
- [1.1] KUSHWAH, Sunita - JONES, Alan M. - LAXMI, Ashverya. Cytokinin Interplay with Ethylene, Auxin, and Glucose Signaling Controls *Arabidopsis* Seedling Root Directional Growth. In *PLANT PHYSIOLOGY*, 2011, vol.156, no.4, 1851., WOS
- [1.1] LIM, Hyoun-Sub - LEE, Mi Yeon - MOON, Jae Sun - MOON, Jung-Kyung - YU, Yong-Man - CHO, In Sook - BAE, Hanhong - DEBOER, Matt - JU, Hojong - HAMMOND, John - JACKSON, Andrew O. Actin Cytoskeleton and Golgi Involvement in Barley stripe mosaic virus Movement and Cell Wall Localization of Triple Gene Block Proteins. In *Plant Pathology Journal*, 2013, vol. 29, no. 1, pp. 17. ISSN 1598-2254., WOS
- [1.1] LI, Jiejie - STAIGER, Benjamin H. - HENTY-RIDILLA, Jessica L. - ABU-ABIED, Mohamad - SADOT, Einat - BLANCHOIN, Laurent - STAIGER, Christopher J. The availability of filament ends modulates actin stochastic dynamics in live plant cells. In *Molecular Biology of the Cell*, 2014, vol. 25, no. 8, pp. 1263. ISSN 1059-1524., WOS
- [1.1] MCMICHAEL, Colleen M. - BEDNAREK, Sebastian Y. Cytoskeletal and membrane dynamics during higher plant cytokinesis. In *New Phytologist*, 2013, vol. 197, no. 4, pp. 1039. ISSN 0028-646X., WOS
- [1.1] MUCHA, Elena - FRICKE, Inka - SCHAEFER, Antje - WITTINGHOFER, Alfred - BERKEN, Antje. Rho proteins of plants Functional

- cycle and regulation of cytoskeletal dynamics. In EUROPEAN JOURNAL OF CELL BIOLOGY, 2011, vol.90, no.11, 934., WOS
- [1.1] NICK, Peter - WOJTASZEK, P. Mechanics of the Cytoskeleton. In MECHANICAL INTEGRATION OF PLANT CELLS AND PLANTS, 2011, vol., no., 53., WOS
- [1.1] PANTERIS, Emmanuel - ADAMAKIS, Ioannis-Dimosthenis S. - DARAS, Gerasimos - HATZOPOULOS, Polydefkis - RIGAS, Stamatis. Differential Responsiveness of Cortical Microtubule Orientation to Suppression of Cell Expansion among the Developmental Zones of *Arabidopsis thaliana* Root Apex. In Plos One, 2013, vol. 8, no. 12, pp. ISSN 1932-6203., WOS
- [1.1] PARK, Myoung Ryoul - WANG, Yi-Hong - HASENSTEIN, Karl H. Profiling Gene Expression in Germinating *Brassica* Roots. In Plant Molecular Biology Reporter, 2014, vol. 32, no. 2, pp. 541. ISSN 0735-9640., WOS
- [1.1] RODRIGUEZ-SERRANO, M. - PAZMINO, D. M. - SPARKES, I. - ROCCHETTI, A. - HAWES, C. - ROMERO-PUERTAS, M. C. - SANDALIO, L. M. 2,4-Dichlorophenoxyacetic acid promotes S-nitrosylation and oxidation of actin affecting cytoskeleton and peroxisomal dynamics. In Journal of Experimental Botany, 2014, vol. 65, no. 17, pp. 4783. ISSN 0022-0957., WOS
- [1.1] ROSEIRO, Amparo - ZARSKY, Viktor - CVRCKOVA, Fatima. AtFH1 formin mutation affects actin filament and microtubule dynamics in *Arabidopsis thaliana*. In Journal of Experimental Botany, 2013, vol. 64, no. 2, pp. 585. ISSN 0022-0957., WOS
- [1.1] SAAVEDRA, Laura - BALBI, Virginia - LERCHE, Jennifer - MIKAMI, Koji - HEILMANN, Ingo - SOMMARIN, Marianne. PIPKs are essential for rhizoid elongation and caulinodal cell development in the moss *Physcomitrella patens*. In PLANT JOURNAL, 2011, vol.67, no.4, 635., WOS
- [1.1] SAMPATHKUMAR, Arun - GUTIERREZ, Ryan - MCFARLANE, Heather E. - BRINGMANN, Martin - LINDEBOOM, Jelmer - EMONS, Anne-Mie - SAMUELS, Lacey - KETELAAR, Tijs - EHRHARDT, David W. - PERSSON, Staffan. Patterning and Lifetime of Plasma Membrane-Localized Cellulose Synthase Is Dependent on Actin Organization in *Arabidopsis* Interphase Cells. In Plant Physiology, 2013, vol. 162, no. 2, pp. 675. ISSN 0032-0889., WOS
- [1.1] SATO-IZAWA, Kanna - NAKABA, Satoshi - TAMURA, Katsunori - YAMAGISHI, Yusuke - NAKANO, Yoshimi - NISHIKUBO, Nobuyuki - KAWAI, Shinya - KAJITA, Shinya - ASHIKARI, Motoyuki - FUNADA, Ryo - KATAYAMA, Yoshihiro - KITANO, Hidemi. DWARF50 (D50), a rice (*Oryza sativa* L.) gene encoding inositol polyphosphate 5-phosphatase, is required for proper development of intercalary meristem. In Plant Cell and Environment, 2012, vol. 35, no. 11, p. 2031-2044. ISSN 0140-7791., WOS
- [1.1] SEHRING, Ivonne M. - DONG, Bo - DENKER, Elsa - BHATTACHAN, Punit - DENG, Wei - MATHIESEN, Birthe T. - JIANG, Di. An Equatorial Contractile Mechanism Drives Cell Elongation but not Cell Division. In Plos Biology, 2014, vol. 12, no. 2. ISSN 1545-7885., WOS
- [1.1] SHEEHAN, Moira J. - PAWLOWSKI, Wojciech P. IMAGING CHROMOSOME DYNAMICS IN MEIOSIS IN PLANTS. In Methods in Enzymology, vol. 505: Imaging and Spectroscopic Analysis of Living Cells: Live Cell Imaging of Cellular Elements and Functions, 2012, vol. 505, p. 125-143. ISSN 0076-6879., WOS
- [1.1] SHI, Meng - XIE, Yurong - ZHENG, Yiyan - WANG, Junmin - SU, Yi

- YANG, Qiuying - HUANG, Shanjin. Oryza sativa actin-interacting protein1 is required for rice growth by promoting actin turnover. In *Plant Journal*, 2013, vol. 73, no. 5, pp. 747. ISSN 0960-7412., WOS
- [1.1] TOTH, Reka - GERDING-REIMERS, Claas - DEEKS, Michael J. - MENNINGER, Sascha - GALLEGOS, Rafael M. - TONACO, Isabella A. N. - HUEBEL, Katja - HUSSEY, Patrick J. - WALDMANN, Herbert - COUPLAND, George. Prieurianin/endosidin 1 is an actin-stabilizing small molecule identified from a chemical genetic screen for circadian clock effectors in *Arabidopsis thaliana*. In *Plant Journal*, 2012, vol. 71, no. 2, p. 338-352. ISSN 0960-7412., WOS
- [1.1] VONDRAKOVA, Zuzana - ELIASOVA, Katerina - VAGNER, Martin. The anti-actin drugs latrunculin and cytochalasin affect the maturation of spruce somatic embryos in different ways. In *Plant Science*, 2014, vol. 221, no., pp. 90. ISSN 0168-9452., WOS
- [1.1] WHITE, Rosemary G. - BARTON, Deborah A. The cytoskeleton in plasmodesmata: a role in intercellular transport? In *JOURNAL OF EXPERIMENTAL BOTANY*, 2011, vol.62, no.15, 5249., WOS
- [1.1] WU, Shu-Zon - BEZANILLA, Magdalena. Myosin VIII associates with microtubule ends and together with actin plays a role in guiding plant cell division. In *Elife*, 2014, vol. 3. ISSN 2050-084X., WOS
- [1.1] YANG, Weibing - REN, Sulin - ZHANG, Xiaoming - GAO, Mingjun - YE, Shenghai - QI, Yongbin - ZHENG, Yiyan - WANG, Juan - ZENG, Longjun - LI, Qun - HUANG, Shanjin - HE, Zuhua. BENT UPPERMOST INTERNODE1 Encodes the Class II Formin FH5 Crucial for Actin Organization and Rice Development. In *PLANT CELL*, 2011, vol.23, no.2, 661., WOS
- [1.1] ZHANG, Yu - SHENG, Xiaojing - MENG, Xiangfei - LI, Yan. The Circular F-Actin Bundles Provide a Track for Turnaround and Bidirectional Movement of Mitochondria in *Arabidopsis* Root Hair. In *Plos One*, 2014, vol. 9, no. 3, ISSN 1932-6203., WOS

ADCA06 BALUŠKA, František - ŠAMAJ, Jozef - NAPIER, R. - VOLKMANN, Dieter. Maize calreticulin localizes preferentially to plasmodesmata in root apex. In *Plant Journal*, 1999, vol. 19, no. 4, p. 481-488. ISSN 0960-7412.

Ohlasy:

- [1.1] BURCH-SMITH, Tessa M. - BRUNKARD, Jacob O. - CHOI, Yoon Gi - ZAMBRYSKI, Patricia C. Organelle-nucleus cross-talk regulates plant intercellular communication via plasmodesmata. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 2011, vol.108, no.51, e1451-E1460., WOS
- [1.1] BURCH-SMITH, Tessa M. - ZAMBRYSKI, Patricia C. - MERCHANT, SS. Plasmodesmata Paradigm Shift: Regulation from Without Versus Within. In *ANNUAL REVIEW OF PLANT BIOLOGY*, VOL 63, 2012, vol.63, no., 239., WOS
- [1.1] CAO, Ping - SUN, Jing - ZHAO, Peng - LIU, Heng - ZHENG, Guochang. A new putative plasmodesmata-associated protein, At1g19190, in *Arabidopsis*. In *AFRICAN JOURNAL OF BIOTECHNOLOGY*, 2011, vol.10, no.76, 17409-17423., WOS
- [1.1] DE STORME, Nico - GEELEN, Danny. Callose homeostasis at plasmodesmata: molecular regulators and developmental relevance. In *Frontiers in Plant Science*, 2014, vol. 5. ISSN 1664-462X., WOS

- [1.1] DEL BEM, Luiz Eduardo V. The evolutionary history of calreticulin and calnexin genes in green plants. In GENETICA, 2011, vol.139, no.2, 255-259., WOS
- [1.1] DEMCHENKO, Kirill N. - VOITSEKHOVSKAJA, Olga V. - PAWLOWSKI, Katharina. Plasmodesmata without callose and calreticulin in higher plants open channels for fast symplastic transport? In Frontiers in Plant Science, 2014, vol. 5. ISSN 1664-462X., WOS
- [1.1] DONG YU - LIU NA - LIU GANG - LI WEN-LONG - YAN AI-HUA - WANG DONG-MEI. Actin and Myosin Co-Localize in Plasmodesmata and Ectodesmata-Like Structure. In AGRICULTURAL SCIENCES IN CHINA, 2011, vol.10, no.6, 845-849., WOS
- [1.1] FAULKNER, Christine - MAULE, Andy. Opportunities and successes in the search for plasmodesmal proteins. In PROTOPLASMA, 2011, vol.248, no.1, 27-38., WOS
- [1.1] FERNANDEZ-CALVINO, Lourdes - FAULKNER, Christine - WALSHAW, John - SAALBACH, Gerhard - BAYER, Emmanuelle - BENITEZ-ALFONSO, Yoselin - MAULE, Andrew. Arabidopsis Plasmodesmal Proteome. In PLOS ONE, 2011, vol.6, no.4., WOS
- [1.1] HAVIV, Sabrina - MOSKOVITZ, Yoni - MAWASSI, Munir. The ORF3-encoded proteins of vitiviruses GVA and GVB induce tubule-like and punctate structures during virus infection and localize to the plasmodesmata. In Virus Research, 2012, vol.163, no.1, 291., WOS
- [1.1] JAOUANNET, M. - MAGLIANO, M. - ARGUEL, M. J. - GOURGUES, M. - EVANGELISTI, E. - ABAD, P. - ROSSO, M. N. The Root-Knot Nematode Calreticulin Mi-CRT Is a Key Effector in Plant Defense Suppression. In Molecular Plant-Microbe Interactions, 2013, vol. 26, no. 1, pp. 97. ISSN 0894-0282., WOS
- [1.1] NAULIN, Pamela A. - ALVEAL, Natalia A. - BARRERA, Nelson P. Toward atomic force microscopy and mass spectrometry to visualize and identify lipid rafts in plasmodesmata. In Frontiers in Plant Science, 2014, vol. 5, ISSN 1664-462X., WOS
- [1.1] NIEHL, Annette - HEINLEIN, Manfred. Cellular pathways for viral transport through plasmodesmata. In PROTOPLASMA, 2011, vol.248, no.1, 75-99., WOS
- [1.1] NOOKARAJU, Akula - PANDEY, Shashank K. - UPADHYAYA, Chandrama P. - HEUNG, Jeon Jae - KIM, Hyun S. - CHUN, Se Chul - KIM, Doo Hwan - PARK, Se Won. Role of Ca<sup>2+</sup>-mediated signaling in potato tuberization: An overview. In BOTANICAL STUDIES, 2012, vol.53, no.2, 177., WOS
- [1.1] OTULAK, Katarzyna - GARBACZEWSKA, Grazyna. Cell-to-cell movement of three genera (+) ss RNA plant viruses. In ACTA PHYSIOLOGIAE PLANTARUM, 2011, vol.33, no.2, 249-260., WOS
- [1.1] PENA, Eduardo - NIEHL, Annette - HEINLEIN, Manfred - KRAGLER, F - HULSKAMP, M. Viral Studies Point the Way: Mechanisms of Intercellular Transport. In SHORT AND LONG DISTANCE SIGNALING, 2012, vol.3, no., 1., WOS
- [1.1] SAGER, Ross - LEE, Jung-Youn. Plasmodesmata in integrated cell signalling: insights from development and environmental signals and stresses. In Journal of Experimental Botany, 2014, vol. 65, no. 22, pp. 6337. ISSN 0022-0957., WOS
- [1.1] SALMON, Magali S. - BAYER, Emmanuelle M. F. Dissecting

plasmodesmata molecular composition by mass spectrometry-based proteomics. In *Frontiers in Plant Science*, 2013, vol. 3. ISSN 1664-462X., WOS  
[1.1] SCHUBERT, Maria - KOTEYEVA, Nouria K. - ZDYB, Anna - SANTOS, Patricia - VOITSEKHOVSKAJA, Olga V. - DEMCHENKO, Kirill N. - PAWLOWSKI, Katharina. Lignification of cell walls of infected cells in *Casuarina glauca* nodules that depend on symplastic sugar supply is accompanied by reduction of plasmodesmata number and narrowing of plasmodesmata. In *Physiologia Plantarum*, 2013, vol. 147, no. 4, pp. 524. ISSN 0031-9317., WOS  
[1.1] TILSNER, Jens - AMARI, Khalid - TORRANCE, Lesley. Plasmodesmata viewed as specialised membrane adhesion sites. In *PROTOPLASMA*, 2011, vol. 248, no.1, 39-60., WOS  
[1.1] TINTOR, Nico - SAIJO, Yusuke. ER-mediated control for abundance, quality, and signaling of transmembrane immune receptors in plants. In *Frontiers in Plant Science*, 2014, vol. 5, ISSN 1664-462X., WOS  
[1.1] VERCHOT, Jeanmarie. The ER quality control and ER associated degradation machineries are vital for viral pathogenesis. In *Frontiers in Plant Science*, 2014, vol. 5. ISSN 1664-462X., WOS  
[1.1] ZALEPA-KING, Lisa - CITOVSKY, Vitaly. A Plasmodesmal Glycosyltransferase-Like Protein. In *Plos One*, 2013, vol. 8, no. 2, pp. ISSN 1932-6203., WOS

ADCA07 BALUŠKA, František - ŠAMAJ, Jozef - MENZEL, Diedrik. Polar transport of auxin: carrier-mediated flux across the plasma membrane or neurotransmitter-like secretion? In *Trends in Cell Biology : reference edition*. - Oxford : Elsevier Science, 2003, vol. 13, no. 6, p. 282-285. ISSN 0968-0039.

Ohlasy:

[1.1] ATKINSON, C.J. - ELSE, M.A. Hydraulic conductivity and PAT determine hierarchical resource partitioning and ramet development along *Fragaria* stolons. In *Journal of Experimental Botany*, 2012, vol. 63, no. 14, p. 5093-5104. ISSN 0022-0957., WOS

ADCA08 BALUŠKA, František - SALAJ, Ján - MATHUR, Jaideep - BRAUN, Markus - JASPER, Fred - ŠAMAJ, Jozef - CHUA, Nam-Hai - BARLOW, Peter W. - VOLKMANN, Dieter. Root hair formation: F-actin-dependent tip growth is initiated by local assembly of profilin-supported F-actin meshworks accumulated within expansin-enriched bulges. In *Developmental Biology*, 2000, vol. 227, no. 2, p. 618-632. (2000 - Current Contents). ISSN 0012-1606.

Ohlasy:

[1.1] BAO, Ying - HU, Guanjing - FLAGEL, Lex E. - SALMON, Armel - BEZANILLA, Magdalena - PATERSON, Andrew H. - WANG, Zining - WENDEL, Jonathan F. Parallel up-regulation of the profilin gene family following independent domestication of diploid and allopolyploid cotton (*Gossypium*). In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 2011, vol.108, no.52, 21152-21157., WOS

[1.1] DAHER, Firas Bou - GEITMANN, Anja. Actin is Involved in Pollen Tube Tropism Through Redefining the Spatial Targeting of Secretory Vesicles. In *TRAFFIC*, 2011, vol.12, no.11, 1537-1551., WOS

[1.1] DATTA, Sourav - KIM, Chul Min - PERNAS, Monica - PIRES, Nuno D. - PROUST, Helene - TAM, Thomas - VIJAYAKUMAR, Priya - DOLAN,

- Liam. Root hairs: development, growth and evolution at the plant-soil interface. In PLANT AND SOIL, 2011, vol.346, no.1-2, 1., WOS
- [1.1] DYACHOK, Julia - SPARKS, J. Alan - LIAO, Fuqi - WANG, Yuh-Shuh - BLANCAFLOR, Elison B. Fluorescent protein-based reporters of the actin cytoskeleton in living plant cells: Fluorophore variant, actin binding domain, and promoter considerations. In Cytoskeleton, 2014, vol. 71, no. 5, pp. 311. ISSN 1949-3584., WOS
- [1.1] FAN, Jun-Ling - WEI, Xue-Zhi - WAN, Li-Chuan - ZHANG, Ling-Yun - ZHAO, Xue-Qin - LIU, Wei-Zhong - HAO, Huai-Qin - ZHANG, Hai-Yan. Disarrangement of actin filaments and Ca<sup>2+</sup> gradient by CdCl<sub>2</sub> alters cell wall construction in *Arabidopsis thaliana* root hairs by inhibiting vesicular trafficking. In JOURNAL OF PLANT PHYSIOLOGY, 2011, vol.168, no.11, 1157., WOS
- [1.1] GIANNOUTSOU, Eleni P. - APOSTOLAKOS, Panagiotis - GALATIS, Basil. Actin filament-organized local cortical endoplasmic reticulum aggregations in developing stomatal complexes of grasses. In PROTOPLASMA, 2011, vol.248, no.2, 373-390., WOS
- [1.1] GU, F.W. - NIELSEN, E. Targeting and Regulation of Cell Wall Synthesis During Tip Growth in Plants. In Journal of Integrative Plant Biology, 2013, vol. 55, no. 9, SI, p. 835-846. ISSN 1672-9072., WOS
- [1.1] HAN, Chao - WANG, Kun - YANG, Pingfang. Gel-Based Comparative Phosphoproteomic Analysis on Rice Embryo During Germination. In Plant and Cell Physiology, 2014, vol. 55, no. 8, pp. 1376. ISSN 0032-0781., WOS
- [1.1] CHOI, Won-Gyu - SWANSON, Sarah J. - GILROY, Simon - LUAN, S. Calcium, Mechanical Signaling, and Tip Growth. In CODING AND DECODING OF CALCIUM SIGNALS IN PLANTS, 2011, vol., no., 41., WOS
- [1.1] IVAKOV, A. - PERSSON, S. Plant cell shape: modulators and measurements. In Frontiers in Plant Science, 2013, vol. 4. ISSN 1664-462X., WOS
- [1.1] KASPROWICZ, Anna - WOJTASZEK, P. Osmosensing. In MECHANICAL INTEGRATION OF PLANT CELLS AND PLANTS, 2011, vol., no., 225., WOS
- [1.1] LEE, Sooyeon - CHUNG, Hyein - KIM, Saeyeon - LEE, Insook. The Genotoxic Effect of ZnO and CuO Nanoparticles on Early Growth of Buckwheat, *Fagopyrum Esculentum*. In Water Air and Soil Pollution, 2013, vol. 224, no. 9, pp. ISSN 0049-6979., WOS
- [1.1] LIN, Changfa - CHOI, Hee-Seung - CHO, Hyung-Taeg. Root hair-specific EXPANSIN A7 is required for root hair elongation in *Arabidopsis*. In MOLECULES AND CELLS, 2011, vol.31, no.4, 393-397., WOS
- [1.1] LOMBARDO, M. C. - LAMATTINA, L. Nitric oxide is essential for vesicle formation and trafficking in *Arabidopsis* root hairgrowth. In Journal of Experimental Botany, 2012, vol.63, no.13, 4875., WOS
- [1.1] MEAGHER, Richard B. - KANDASAMY, Muthugapatti K. - KING, Lori - LIU, B. Actin Functions in the Cytoplasmic and Nuclear Compartments. In PLANT CYTOSKELETON, 2011, vol.2, no., 3., WOS
- [1.1] MUENCH, Douglas G. - ZHANG, Chi - DAHODWALA, Murtaza. Control of cytoplasmic translation in plants. In Wiley Interdisciplinary Reviews-RNA, 2012, vol.3, no.2, 178., WOS
- [1.1] PARK, Eunsook - NEBENFUHR, Andreas - LIU, B. Cytoskeleton and Root Hair Growth. In PLANT CYTOSKELETON, 2011, vol.2, no., 259., WOS

- [1.1] PEI, Weike - DU, Fei - ZHANG, Yi - HE, Tian - REN, Haiyun. Control of the actin cytoskeleton in root hair development. In *Plant Science*, 2012, vol.187, no., 10., WOS
- [1.1] RISHMAWI, Louai - SUN, Hequan - SCHNEEBERGER, Korbinian - HUELSKAMP, Martin - SCHRADER, Andrea. Rapid Identification of a Natural Knockout Allele of ARMADILLO REPEAT-CONTAINING KINESIN1 That Causes Root Hair Branching by Mapping-By-Sequencing. In *Plant Physiology*, 2014, vol. 166, no. 3, pp. 1280. ISSN 0032-0889., WOS
- [1.1] ROUNDS, C.M. - BEZANILLA, M. Growth Mechanisms in Tip-Growing Plant Cells. In *Annual Review of Plant Biology*, 2013, vol. 64, p. 243-265. ISSN 1543-5008., WOS
- [1.1] SAMBADE, Adrian - FINDLAY, Kim - SCHAEFFNER, Anton R. - LLOYD, Clive W. - BUSCHMANN, Henrik. Actin-Dependent andIndependent Functions of Cortical Microtubules in the Differentiation of *Arabidopsis* Leaf Trichomes. In *Plant Cell*, 2014, vol. 26, no. 4, pp. 1629. ISSN 1040-4651., WOS
- [1.1] SCHOENBERGER, Johannes - HAMMES, Ulrich Z. - DRESSELHAUS, Thomas. In vivo visualization of RNA in plants cells using the lambda N-22 system and a GATEWAY-compatible vector series for candidate RNAs. In *Plant Journal*, 2012, vol.71, no.1, 173., WOS
- [1.1] SUN, Tiantian - LI, Shanwei - REN, Haiyun. Profilin as a regulator of the membrane-actin cytoskeleton interface in plant cells. In *Frontiers in Plant Science*, 2013, vol. 4, no., pp. ISSN 1664-462X., WOS
- [1.1] TOMINAGA-WADA, Rumi - ISHIDA, Tetsuya - WADA, Takuji. NEW INSIGHTS INTO THE MECHANISM OF DEVELOPMENT OF ARABIDOPSIS ROOT HAIRS AND TRICHOMES. In *INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY*, VOL 286, 2011, vol.286, no., 67-106., WOS
- [1.1] TOMINAGA-WADA, Rumi - ISHIDA, Tetsuya - WADA, Takuji - JEON, KW. NEW INSIGHTS INTO THE MECHANISM OF DEVELOPMENT OF ARABIDOPSIS ROOT HAIRS AND TRICHOMES. In *INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY*, VOL 286, 2011, vol.286, no., 67., WOS
- [1.1] VASKOVICOVA, Katarina - ZARSKY, Viktor - ROESEL, Daniel - NIKOLIC, Margaret - BUCCIONE, Roberto - CVRCKOVA, Fatima - BRABEK, Jan. Invasive cells in animals and plants: searching for LECA machineries in later eukaryotic life. In *Biology Direct*, 2013, vol. 8, no., pp. ISSN 1745-6150., WOS
- [1.1] ZEPEDA, Isaac - SANCHEZ-LOPEZ, Rosana - KUNKEL, Joseph G. - BANUELOS, Luis A. - HERNANDEZ-BARRERA, Alejandra - SANCHEZ, Federico - QUINTO, Carmen - CARDENAS, Luis. Visualization of Highly Dynamic F-Actin Plus Ends in Growing *Phaseolus vulgaris* Root Hair Cells and Their Responses to *Rhizobium etli* Nod Factors. In *Plant and Cell Physiology*, 2014, vol. 55, no. 3, pp. 580. ISSN 0032-0781., WOS
- [1.1] ZHANG, Yi - XIAO, Yingyu - DU, Fei - CAO, Lijuan - DONG, Huaijian - REN, Haiyun. *Arabidopsis* VILLIN4 is involved in root hair growth through regulating actin organization in a Ca<sup>2+</sup>-dependent manner. In *NEW PHYTOLOGIST*, 2011, vol.190, no.3, 667-682., WOS
- [1.1] ZHANG, Yu - SHENG, Xiaojing - MENG, Xiangfei - LI, Yan. The Circular F-Actin Bundles Provide a Track for Turnaround and Bidirectional

Movement of Mitochondria in Arabidopsis Root Hair. In Plos One, 2014, vol. 9, no. 3, ISSN 1932-6203., WOS

ADCA09 BARNABÁS, B. - OBERT, Bohuš - KOVÁCS, G. Colchicine, an efficient genome-doubling agent for maize (*Zea mays L.*) microspores cultured in anthero. In *Plant Cell Reports Vol.18, no. 10 (1999), P. 858-862.* ISSN 0721-7714.

Ohlasy:

[1.1] CHEN, Chao - HOU, Xilin - ZHANG, Hongxin - WANG, Guilan - TIAN, Limin. Induction of Anthurium andraeanum "Arizona" tetraploid by colchicine in vitro. In EUPHYTICA, 2011, vol.181, no.2, 137., WOS

[1.1] KLEIBER, Daniel - PRIGGE, Vanessa - MELCHINGER, Albrecht E. - BURKARD, Florian - SAN VICENTE, Felix - PALOMINO, Guadalupe - GORDILLO, G. Andres. Haploid Fertility in Temperate and Tropical Maize Germplasm. In CROP SCIENCE. ISSN 0011-183X, 2012, vol. 52, no. 2, pp. 623., WOS

[1.1] SOOD, Salej - DWIVEDI, Samresh - REDDY, Thamalampudi Venkata - PRASANNA, Panuganti Satya - SHARMA, Navin. Improving androgenesis-mediated doubled haploid production efficiency of FCV tobacco (*Nicotiana tabacum L.*) through in vitro colchicine application. In PLANT BREEDING. ISSN 0179-9541, 2013, vol. 132, no. 6, pp. 764., WOS

[1.1] SORIANO, Mercedes - LI, Hui - BOUTILIER, Kim. Microspore embryogenesis: establishment of embryo identity and pattern in culture. In PLANT REPRODUCTION. ISSN 2194-7953, 2013, vol. 26, no. 3, pp. 181., WOS

[1.1] TROJAK-GOLUCH, Anna - SKOMRA, Urszula. Artificially induced polyploidization in *Humulus lupulus L.* and its effect on morphological and chemical traits. In BREEDING SCIENCE. ISSN 1344-7610, 2013, vol. 63, no. 4, pp. 393., WOS

[1.1] WU, Penghao - REN, Jiaojiao - LI, Liang - CHEN, Shaojiang. Early spontaneous diploidization of maternal maize haploids generated by in vivo haploid induction. In EUPHYTICA. ISSN 0014-2336, 2014, vol. 200, no. 1, pp. 127., WOS

[1.1] ZHANG, Chunfen - TSUKUNI, Tatsuro - IKEDA, Miyuku - SATO, Mamoru - OKADA, Hatsuhiko - OHASHI, Yoshitaka - MATSUNO, Hideyuki - YAMAMOTO, Toshiya - WADA, Masato - YOSHIKAWA, Nobuyuki - MATSUMOTO, Shogo - LI, Jijun - MIMIDA, Naozumi - WATANABE, Manabu - SUZUKI, Akira - KOMORI, Sadao. Effects of the Microspore Development Stage and Cold Pre-treatment of Flower Buds on Embryo Induction in Apple (*Malus x domestica* Borkh.) Anther Culture. In JOURNAL OF THE JAPANESE SOCIETY FOR HORTICULTURAL SCIENCE. ISSN 1882-3351, 2013, vol. 82, no. 2, pp. 114., WOS

ADCA10 BARTOŠOVÁ, Zuzana - OBERT, Bohuš - TAKÁČ, Tomáš - KORMUTÁK, Andrej - PRETOVÁ, Anna. Using enzyme polymorphism to identify the gametic origin of flax regenerants. In *Acta Biologica Cracoviensia : Series Botanica. Abstracts XII International Conference on Plant Embryology. September 5-7, 2005 Cracow, Poland.* - Cracow : Cracow Branch : Jagiellonian University, 2005, vol. 47, suppl. 1. ISSN 0001-5296.

Ohlasy:

- [1.1] KISZCZAK, Waldemar - KRZYZANOWSKA, Dorota - STRYCHARCZUK, Krystyna - KOWALSKA, Urszula - WOLKO, Bogdan - GORECKA, Krystyna. Determination of ploidy and homozygosity of carrot plants obtained from anther cultures. In ACTA PHYSIOLOGIAE PLANTARUM, 2011, vol.33, no.2, 401-407., WOS
- [1.1] SMYKALOVA, Iva - HORACEK, Jiri - KUBOSIOVA, Michaela - SMIROUS, Prokop - SOUKUP, Ales - GASMANOVA, Nikol - GRIGA, Miroslav. Induction conditions for somatic and microspore-derived structures and detection of haploid status by isozyme analysis in anther culture of caraway (*Carum carvi L.*). In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT. ISSN 1054-5476, 2012, vol. 48, no. 1, pp. 30., WOS
- [1.1] TALUKDAR, Dibyendu. Flavonoid-Deficient Mutants in Grass Pea (*Lathyrus sativus L.*): Genetic Control, Linkage Relationships, and Mapping with Aconitase and S-Nitrosoglutathione Reductase Isozyme Loci. In SCIENTIFIC WORLD JOURNAL. ISSN 1537-744X, 2012, vol., no., pp. 1., WOS
- [3] Kokina, Inese - Sledovskis, Eriks - Gerbreders, Vjaceslavs - Grauda, Dace - Jermalonoka, Marija - Valaine, Kristina - Gavarane, Inese - Piginka, Inga - Filipovics, Maksims - Rashal, Isaak. REACTION OF FLAX (*Linum usitatissimum L.*) CALLI CULTURE TO SUPPLEMENT OF MEDIUM BY CARBON NANOPARTICLES. In Proceedings of the Latvian Academy of Sciences Section B Natural Exact and Applied Sciences, 2012, vol. 66, no. 4-5, p. 200-209.

ADCA11 BÉKÉSIOVÁ, Beáta - HRAŠKA, Stanislav - LIBANTOVÁ, Jana - MORAVČÍKOVÁ, Jana - MATUŠÍKOVÁ, Ildikó. Heavy-metal stress induced accumulation of chitinase isoforms in plants. In *Molecular Biology Reports*, 2008, vol.35, no.4, p.579-588. (0.829 - IF2007). ISSN 0301-4851.

Ohlasy:

- [1.1] AHMED, Nasar Uddin - PARK, Jong-In - JUNG, Hee-Jeong - KANG, Kwon-Kyoo - HUR, Yoonkang - LIM, Yong-Pyo - NOU, Ill-Sup. Molecular characterization of stress resistance-related chitinase genes of *Brassica rapa*. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2012, vol. 58, no., pp. 106., WOS
- [1.1] ARASIMOWICZ-JELONEK, Magdalena - FLORYSZAK-WIECZOREK, Jolanta - GWOZDZ, Edward A. The message of nitric oxide in cadmium challenged plants. In PLANT SCIENCE, 2011, vol.181, no.5, 612., WOS
- [1.1] BROTMAN, Yariv - LANDAU, Udi - PNINI, Smadar - LISEC, Jan - BALAZADEH, Salma - MUELLER-ROEBER, Bernd - ZILBERSTEIN, Aviah - WILLMITZER, Lothar - CHET, Ilan - VITERBO, Ada. The LysM Receptor-Like Kinase LysM RLK1 Is Required to Activate Defense and Abiotic-Stress Responses Induced by Overexpression of Fungal Chitinases in *Arabidopsis* Plants. In MOLECULAR PLANT. ISSN 1674-2052, 2012, vol. 5, no. 5, pp. 1113., WOS
- [1.1] CAI, Yue - CAO, Fangbin - WEI, Kang - ZHANG, Guoping - WU, Feibo. Genotypic dependent effect of exogenous glutathione on Cd-induced changes in proteins, ultrastructure and antioxidant defense enzymes in rice seedlings. In JOURNAL OF HAZARDOUS MATERIALS, 2011, vol.192, no.3, 1056., WOS

- [1.1] CAO, Fangbin - CHEN, Fei - SUN, Hongyan - ZHANG, Guoping - CHEN, Zhong-Hua - WU, Feibo. Genome-wide transcriptome and functional analysis of two contrasting genotypes reveals key genes for cadmium tolerance in barley. In BMC GENOMICS. ISSN 1471-2164, 2014, vol. 15, no., pp., WOS
- [1.1] GARCIA-GALLEGOS, Elizabeth - HERNANDEZ-ACOSTA, Elizabeth - GARCIA-NIETO, Edelmira - ACEVEDO-SANDOVAL, Otilio A. LEAD CONTENT AND TRANSLOCATION IN OATS (*Avena sativa*, L.) AND BROAD BEAN (*Vicia faba*, L.) IN CONTAMINATED SOIL. In REVISTA CHAPINGO SERIE CIENCIAS FORESTALES Y DEL AMBIENTE, 2011, vol.17, no.1, 19., WOS
- [1.1] GONI, Oscar - SANCHEZ-BALLESTA, Maria T. - MERODIO, Carmen - ESCRIBANO, Maria I. Two cold-induced family 19 glycosyl hydrolases from cherimoya (*Annona cherimola*) fruit: An antifungal chitinase and a cold-adapted chitinase. In PHYTOCHEMISTRY. ISSN 0031-9422, 2013, vol. 95, no., pp. 94., WOS
- [1.1] GROVER, Anita. Plant Chitinases: Genetic Diversity and Physiological Roles. In CRITICAL REVIEWS IN PLANT SCIENCES. ISSN 0735-2689, 2012, vol. 31, no. 1, pp. 57., WOS
- [1.1] LIN, Ya-Fen - AARTS, Mark G. M. The molecular mechanism of zinc and cadmium stress response in plants. In CELLULAR AND MOLECULAR LIFE SCIENCES. ISSN 1420-682X, 2012, vol. 69, no. 19, pp. 3187., WOS
- [1.1] LV, Dong-Wen - SUBBURAJ, Saminathan - CAO, Min - YAN, Xing - LI, Xiaohui - APPELS, Rudi - SUN, Dong-Fa - MA, Wujun - YAN, Yue-Ming. Proteome and Phosphoproteome Characterization Reveals New Response and Defense Mechanisms of Brachypodium distachyon Leaves under Salt Stress. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, 2014, vol. 13, no. 2, pp. 632., WOS
- [1.1] PAZMINO, Diana M. - RODRIGUEZ-SERRANO, Maria - ROMERO-PUERTAS, Maria C. - ARCHILLA-RUIZ, Angustias - DEL RIO, Luis A. - SANDALIO, Luisa M. Differential response of young and adult leaves to herbicide 2,4-dichlorophenoxyacetic acid in pea plants: role of reactive oxygen species. In PLANT CELL AND ENVIRONMENT, 2011, vol.34, no.11, 1874., WOS
- [1.1] POS, V. - HUNYADI-GULYAS, E. - CAIAZZO, R. - JOCSAK, I. - MEDZIHRADSZKY, K. F. - LUKACS, N. INDUCTION OF PATHOGENESIS-RELATED PROTEINS IN INTERCELLULAR FLUID BY CADMIUM STRESS IN BARLEY (*HORDEUM VULGARE* L.) A PROTEOMIC ANALYSIS. In ACTA ALIMENTARIA, 2011, vol.40, no., 164., WOS
- [1.1] PULLA, Rama Krishna - LEE, Ok Ran - IN, Jun-Gyo - PARVIN, Shohana - KIM, Yu-Jin - SHIM, Ju-Sun - SUN, Hua - KIM, Yeon-Ju - SENTHIL, Kalaiselvi - YANG, Deok-Chun. Identification and characterization of class I chitinase in Panax ginseng C. A. Meyer. In MOLECULAR BIOLOGY REPORTS, 2011, vol.38, no.1, 95., WOS
- [1.1] SHARMIN, Shamima Akhtar - ALAM, Iftekhar - KIM, Kyung-Hee - KIM, Yong-Goo - KIM, Pil Joo - BAHK, Jeong Dong - LEE, Byung-Hyun. Chromium-induced physiological and proteomic alterations in roots of *Miscanthus sinensis*. In PLANT SCIENCE. ISSN 0168-9452, 2012, vol. 187, no., pp. 113., WOS
- [1.1] SONG, Yun - ZHANG, Cuijun - GE, Weinan - ZHANG, Yafang -

BURLINGAME, Alma L. - GUO, Yi. Identification of NaCl stress-responsive apoplastic proteins in rice shoot stems by 2D-DIGE. In JOURNAL OF PROTEOMICS, 2011, vol.74, no.7, 1045., WOS

[1.1] UL HAQ, Noor - RAZA, Sana - LUTHE, Dawn S. - HECKATHORN, Scott A. - SHAKEEL, Samina N. A Dual Role for the Chloroplast Small Heat Shock Protein of Chenopodium album including Protection from Both Heat and Metal Stress. In PLANT MOLECULAR BIOLOGY REPORTER. ISSN 0735-9640, 2013, vol. 31, no. 2, pp. 398., WOS

ADCA12 BEKESIOVÁ, Ildiko - NAP, J.P. - MLYNÁROVÁ, Ludmila. Isolation of high quality DNA and RNA from leaves of the carnivorous plant Drosera rotundifolia. In *PLANT MOL BIOL REP.* Vol. 17, no. 3 (1999), p. 269-277. ISSN 0735-9640.

Ohlasy:

[1.1] AGUADO, Ana - CAPOTE, Nieves - ROMERO, Fernando - DODD, Ian C. - COLMENERO-FLORES, Jose M. Physiological and gene expression responses of sunflower (*Helianthus annuus* L.) plants differ according to irrigation placement. In PLANT SCIENCE. ISSN 0168-9452, 2014, vol. 227, no., pp. 37., WOS

[1.1] ALEYNOVA-SHUMAKOVA, O. A. - DUBROVINA, A. S. - MANYAKHIN, A. Y. - KARETIN, Y. A. - KISELEV, K. V. VaCPK20 gene overexpression significantly increased resveratrol content and expression of stilbene synthase genes in cell cultures of *Vitis amurensis* Rupr. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2014, vol. 98, no. 12, pp. 5541., WOS

[1.1] ANDREA REYES, Carina - DE FRANCESCO, Agustina - JOSE PENA, Eduardo - COSTA, Norma - INES PLATA, Maria - SENDIN, Lorena - PEDRO CASTAGNARO, Atilio - LAURA GARCIA, Maria. Resistance to Citrus psorosis virus in transgenic sweet orange plants is triggered by coat protein-RNA silencing. In JOURNAL OF BIOTECHNOLOGY, 2011, vol.151, no.1, 151-158., WOS

[1.1] BITEAU, Flore - NISSE, Estelle - HEHN, Alain - MIGUEL, Sissi - HANNEWALD, Paul - BOURGAUD, Frederic. A Rapid and Efficient Method for Isolating High Quality DNA from Leaves of Carnivorous Plants from the Drosera Genus. In MOLECULAR BIOTECHNOLOGY. ISSN 1073-6085, 2012, vol. 51, no. 3, pp. 247., WOS

[1.1] DONG, Hai-Tao - ZHANG, Lu - ZHENG, Kang-Le - YAO, Hai-Gen - CHEN, Jack - YU, Feng-Chi - YU, Xiao-Xing - MAO, Bi-Zeng - ZHAO, Dong - YAO, Jian - LI, De-Bao. A Gaijin-like miniature inverted repeat transposable element is mobilized in rice during cell differentiation. In BMC GENOMICS. ISSN 1471-2164, 2012, vol. 13, no., pp., WOS

[1.1] DUBROVINA, Alexandra S. - KISELEV, Konstantin V. - KHRISTENKO, Valeriya S. Expression of calcium-dependent protein kinase (CDPK) genes under abiotic stress conditions in wild-growing grapevine *Vitis amurensis*. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2013, vol. 170, no. 17, pp. 1491., WOS

[1.1] DUBROVINA, Alexandra S. - ALEYNOVA, Olga A. - KISELEV, Konstantin V. - NOVIKOVA, Galina V. True and false alternative transcripts of calcium-dependent protein kinase CPK9 and CPK3a genes in *Vitis amurensis*. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2014, vol. 36, no. 7,

pp. 1727., WOS

- [1.1] GAO, Lan - ZHU, Bi-Yun. The Accumulation of Crocin and Geniposide and Transcripts of Phytoene Synthase during Maturation of Gardenia jasminoides Fruit. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2013, vol., no., pp., WOS
- [1.1] GLAB, Bartosz - FURMANEK, Tomasz - MIKLASZEWSKA, Magdalena - BANAS, Antoni - KROLICKA, Aleksandra. Lipids in hairy roots and non-Agrobacterium induced roots of Crambe abyssinica. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2013, vol. 35, no. 7, pp. 2137., WOS
- [1.1] GUIHENEUF, Freddy - LEU, Stefan - ZARKA, Aliza - KHOZIN-GOLDBERG, Inna - KHALILOV, Ilkhom - BOUSSIBA, Sammy. Cloning and molecular characterization of a novel acyl-CoA:diacylglycerol acyltransferase 1-like gene (PtDGAT1) from the diatom Phaeodactylum tricornutum. In FEBS JOURNAL, 2011, vol.278, no.19, 3651-3666., WOS
- [1.1] HASSAN, Haider M. - JIANG, Zi-Hua - SYED, Tarannum A. - QIN, Wensheng. Review: Northern Ontario medicinal plants. In CANADIAN JOURNAL OF PLANT SCIENCE. ISSN 0008-4220, 2012, vol. 92, no. 5, pp. 815., WOS
- [1.1] KAWIAK, Anna - KROLICKA, Aleksandra - LOJKOWSKA, Ewa. In vitro cultures of Drosera aliciae as a source of a cytotoxic naphthoquinone: ramentaceone. In BIOTECHNOLOGY LETTERS, 2011, vol.33, no.11, 2309-2316., WOS
- [1.1] KISELEV, K. V. - DUBROVINA, A. S. - SHUMAKOVA, O. A. - KARETIN, Y. A. - MANYAKHIN, A. Y. Structure and expression profiling of a novel calcium-dependent protein kinase gene, CDPK3a, in leaves, stems, grapes, and cell cultures of wild-growing grapevine *Vitis amurensis* Rupr. In PLANT CELL REPORTS. ISSN 0721-7714, 2013, vol. 32, no. 3, pp. 431., WOS
- [1.1] KISELEV, K. V. - TYUNIN, A. P. - MANYAKHIN, A. Y. - ZHURAVLEV, Y. N. Resveratrol content and expression patterns of stilbene synthase genes in *Vitis amurensis* cells treated with 5-azacytidine. In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.105, no.1, 65-72., WOS
- [1.1] KUZMA, L. - KISIEL, W. - KROLICKA, A. - WYSOKINSKA, H. Genetic transformation of *Salvia austriaca* by Agrobacterium rhizogenes and diterpenoid isolation. In PHARMAZIE, 2011, vol.66, no.11, 904., WOS
- [1.1] LI YUAN - HE YONGMEI - ZU YANQUN - ZHAN FANGDONG. Identification and cloning of molecular markers for UV-B tolerant gene in wild sugarcane (*Saccharum spontaneum* L.). In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, 2011, vol.105, no.2, 119-125., WOS
- [1.1] MARTINEZ, M. E. - LESHER G, J. M. - CASTANON N, G. - DE LA CRUZ L, E. - ZAPATA H, C. Genetic variability of nanche in Tabasco, Mexico, determined with RAPDs. In PHYTON-INTERNATIONAL JOURNAL OF EXPERIMENTAL BOTANY. ISSN 1851-5657, 2013, vol. 82, no., pp. 209., WOS
- [1.1] MINASIEWICZ, Julita - ZNANIECKA, Joanna M. Characterization of 15 novel microsatellite loci for *Cypripedium calceolus* (Orchidaceae) using MiSeq sequencing. In CONSERVATION GENETICS RESOURCES. ISSN 1877-7252, 2014, vol. 6, no. 3, pp. 527., WOS
- [1.1] PENG, Jun - XIA, Zihao - CHEN, Ling - SHI, Minjing - PU, Jinji - GUO, Jianrong - FAN, Zaifeng. Rapid and Efficient Isolation of High-Quality

- Small RNAs from Recalcitrant Plant Species Rich in Polyphenols and Polysaccharides. In PLOS ONE. ISSN 1932-6203, 2014, vol. 9, no. 5, pp., WOS
- [1.1] PIATCZAK, Ewelina - KROLICKA, Aleksandra - WIELANEK, Marzena - WYSOKINSKA, Halina. Hairy root cultures of Rehmannia glutinosa and production of iridoid and phenylethanoid glycosides. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2012, vol. 34, no. 6, pp. 2215., WOS
- [1.1] SHARMA, P. - PUROHIT, S. D. An improved method of DNA isolation from polysaccharide rich leaves of Boswellia serrata Roxb. In INDIAN JOURNAL OF BIOTECHNOLOGY. ISSN 0972-5849, 2012, vol. 11, no. 1, pp. 67., WOS
- [1.1] SHUMAKOVA, Olga A. - MANYAKHIN, Artem Y. - KISELEV, Konstantin V. Resveratrol Content and Expression of Phenylalanine Ammonia-lyase and Stilbene Synthase Genes in Cell Cultures of Vitis amurensis Treated with Coumaric Acid. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, 2011, vol.165, no.5-6, 1427-1436., WOS
- [1.1] SIRIPATTHANA, Pattraporn - PHAONAKROP, Narumon - ROYTRAKUL, Sittiruk - SENAWONG, Gulsiri - BUNYATTRATCHATA, Wandee - MUDALIGE-JAYAWICKRAMA, Rasika G. - SATTAJASAI, Nison. GENETIC DIFFERENCES BETWEEN DENDROBIUM CHRYSOTOXUM NATIVE TO NORTHEASTERN AND NORTHERN REGIONS OF THAILAND BASED ON GALANTHUS NIVALIS AGGLUTININ-RELATED LECTINS AND INTERNAL TRANSCRIBED SPACER REGIONS OF RIBOSOMAL DNA. In PAKISTAN JOURNAL OF BOTANY. ISSN 0556-3321, 2014, vol. 46, no. 5, pp. 1561., WOS
- [1.1] TONG, Zhaoguo - QU, Shenchun - ZHANG, Jiyu - WANG, Fei - TAO, Jianmin - GAO, Zhihong - ZHANG, Zhen. A Modified Protocol for RNA Extraction from Different Peach Tissues Suitable for Gene Isolation and Real-Time PCR Analysis. In MOLECULAR BIOTECHNOLOGY. ISSN 1073-6085, 2012, vol. 50, no. 3, pp. 229., WOS
- [1.1] TYUNIN, A. P. - KISELEV, K. V. - ZHURAVLEV, Y. N. Effects of 5-azacytidine induced DNA demethylation on methyltransferase gene expression and resveratrol production in cell cultures of Vitis amurensis. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 111, no. 1, pp. 91., WOS
- [1.1] WEREMCZUK-JEZYNA, Izabela - GRZEGORCZYK-KAROLAK, Izabela - FRYDRYCH, Barbara - KROLICKA, Aleksandra - WYSOKINSKA, Halina. Hairy roots of Dracocephalum moldavica: rosmarinic acid content and antioxidant potential. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2013, vol. 35, no. 7, pp. 2095., WOS
- [1.1] ZHU, Y. Q. - ZHENG, Y. - CHEN, H. B. - HUANG, L. Q. Confirmation of soybean plastid rRNAs by formaldehyde denaturing agarose gel electrophoresis. In GENETICS AND MOLECULAR RESEARCH. ISSN 1676-5680, 2014, vol. 13, no. 4, pp. 8640., WOS
- [1.2] ALEYNOVA, O. A. - DUBROVINA, A. S. - MANYAKHIN, A. Y. - KARETIN, Y. A. - KISELEV, K. V. - KISELEV, K. V. Regulation of Resveratrol Production in Vitis amurensis Cell Cultures by Calcium-Dependent Protein Kinases. In Applied Biochemistry and Biotechnology. ISSN 02732289, 2014-01-01, 175, 3, pp. 1460-1476., SCOPUS
- [1.2] GAO, Lan - GUO, Yijun. Isolation of a fruit ripening-related tonoplast

aquaporin (GjTIP) gene from *Gardenia jasminoides*. In *Physiology and Molecular Biology of Plants*. ISSN 09715894, 2013-10-01, 19, 4, pp. 555-561., SCOPUS

- [1.2] PIATCZAK, Ewelina - KRÓLICKA, Aleksandra - WIELANEK, Marzena - WYSOKIŃSKA, Halina. Hairy root cultures of *Rehmannia glutinosa* and production of iridoid and phenylethanoid glycosides. In *Acta Physiologae Plantarum*. ISSN 01375881, 2014-01-01, 36, 6, pp. 2215-2224., SCOPUS
- [1.2] WANG, X. - XIAO, H. - CHEN, G. - ZHAO, X. - HUANG, C. - CHEN, C. - WANG, F. Isolation of high-quality RNA from *reumuria soongorica*, a desert plant rich in secondary metabolites. In *Molecular Biotechnology*, 2011, vol.48, no.2, 165-172., SCOPUS
- [1.2] ZHU, Yongqiang - WU, W. J. - XIAO, Huawei - CHEN, Hongbo - ZHENG, Yi - ZHANG, Yijuan - WANG, H. X. - HUANG, Laiqiang. A generic plant RNA isolation method suitable for RNA-Seq and suppression subtractive hybridization. In *Genetics and Molecular Research*, 2013-11-18, 12, 4, pp. 5537-5546., SCOPUS
- [3] Meena, R.K.- Sukla, P.- Dubey, M. Isolation of plant RNA for early detection of RNA Viruses. In *Bulletin of Environment, Pharmacology and Life Sciences*, ISSN 2277-1808, 2013, no. 2, p.128-130.

ADCA13 BLEHO, Juraj - OBERT, Bohuš - TAKÁČ, Tomáš - PETROVSKÁ, Beáta - HEYM, Claudia - MENZEL, Diedrik - ŠAMAJ, Jozef. ER disruption and GFP degradation during non-regenerable transformation of flax with *Agrobacterium tumefaciens*. In *Protoplasma*, 2012, vol. 249, no. 1, p. 53-63. (1.922 - IF2011). (2012 - Current Contents). ISSN 0033-183X.

Ohlasy:

- [1.1] LIU, S. C. - ZHANG, G. C. - YANG, L. F. - MII, M. - GAI, J. Y. - ZHU, Y. L. Bialaphos-resistant Transgenic Soybeans Produced by the Agrobacterium-mediated Cotyledonary-node Method. In *JOURNAL OF AGRICULTURAL SCIENCE AND TECHNOLOGY*. ISSN 1680-7073, 2014, vol. 16, no. 1, pp. 175., WOS
- [1.1] SHYSHA, E. N. - KORHOVYU, V. I. - BAYER, G. Ya. - GUZENKO, E. V. - LEMESH, V. A. - KARTEL&APOS;, N. A. - YEMETS, A. I. - BLUME, Ya. B. Genetic transformation of flax (*Linum usitatissimum L.*) with the chimeric GFP-TUA6 gene for the visualization of microtubules. In *CYTOTOLOGY AND GENETICS*. ISSN 0095-4527, 2013, vol. 47, no. 2, pp. 63., WOS
- [1.1] SVUBOVA, Renata - BLEHOVA, Alžbeta. Stable transformation and actin visualization in callus cultures of dodder (*Cuscuta europaea*). In *BIOLOGIA*. ISSN 0006-3088, 2013, vol. 68, no. 4, pp. 633., WOS

ADCA14 BOBÁK, Milan - BLEHOVÁ, Alžbeta - KRIŠTÍN, J. - OVEČKA, Miroslav - ŠAMAJ, Jozef. Direct plant regeneration from leaf explants of *Drosera rotundifolia* cultured in vitro. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*. - Dordrecht : Kluwer Academic Publishers, 1995, vol. 43, no. 1, p. 43-49. ISSN 0167-6857.

Ohlasy:

- [1.1] JIMENEZ, V.M. - GUEVARA, E. - MASIS, S. Effect of macronutrients and sucrose concentration on in vitro growth of *Drosera capensis* L. (Droseraceae) plants, and evaluation of six substrates for acclimatization. In *Propagation of Ornamental plants*, 2011, vol. 11, no. 1, p. 34-39. ISSN

1311-9109., WOS

[1.1] KAWIAK, A. - KROLICKA, A. - LOJKOWSKA, E. In vitro cultures of *Drosera aliciae* as a source of a cytotoxic naphthoquinone: ramentaceone. In *Biotechnology Letters*, 2011, vol. 33, no. 11, p. 2309-2316. ISSN 0141-5492., WOS

[1.1] LIAO, Y.K. - JI, Y.Y. MASS PROPAGATION OF DROSERA BURMANNII VAHL VIA INDUCTION OF SHOOT FASCIATION AND RECOVERY OF MORPHOLOGICALLY NORMAL PLANTLETS. In *Propagation of Ornamental Plants*, 2014, vol. 14, no. 4, p. 158-170. ISSN 1311-9109., WOS

[1.1] REJTHAR, J. - VIEHMANNOVA, I. - CEPKOVA, P.H. - FERNANDEZ, E. - MILELLA, L. In vitro propagation of *Drosera intermedia* as influenced by cytokinins, pH, sucrose, and nutrient concentration. In *Emirates Journal of Food and Agriculture*, 2014, vol. 26, no. 6, p. 558-564. ISSN 2079-052X., WOS

[1.1] VATANKHAH, E. - NIKNAM, V. - EBRAHIMZADEH, H. Histological and biochemical parameters of *Crocus sativus* during in vitro root and shoot organogenesis. In *Biologia Plantarum*, 2014, vol. 58, no. 2, p. 201-208. ISSN 0006-3134., WOS

[1.1] ZEHL, M. - BRAUNBERGER, C. - CONRAD, J. - CRNOGORAC, M. - KRASTEVA, S. - VOGLER, B. - BEIFUSS, U. - KRENN, L. Identification and quantification of flavonoids and ellagic acid derivatives in therapeutically important *Drosera* species by LC-DAD, LC-NMR, NMR, and LC-MS. In *Analytical and Bioanalytical Chemistry*, 2011, vol. 400, no. 8, p. 2565-2576. ISSN 1618-2642., WOS

ADCA15 BOBÁK, Milan - HLAVAČKA, Andrej - OVEČKA, Miroslav - ŠAMAJ, Jozef. Effect of trifluralin and colchicine on the extracellular matrix surface networks during early stages of direct somatic embryogenesis of *Drosera rotundifolia* L. In *Journal of Plant Physiology : Biochemistry, Physiology and Molecular Biology of Plants*, 1999, vol. 155, p. 387-392. (1.195 - IF1998). ISSN 0176-1617.

Ohlasy:

[1.1] PALANYANDY, Sharrmila Rengeswari - SURANTHRAN, Periasamy - GANTAIT, Saikat - SINNIAH, Uma Rani - SUBRAMANIAM, Sreeramanan - AZIZ, Maheran Abdul - ALWEE, Sharifah Shahrul Rabiah Syed - ROOWI, Siti Habsah. In vitro developmental study of oil palm (*Elaeis guineensis* Jacq.) polyembryoids from cell suspension using scanning electron microscopy. In *Acta Physiologae Plantarum*, 2013, vol. 35, no. 5, pp. 1727. ISSN 0137-5881., WOS

ADCA16 BOBÁK, Milan - ŠAMAJ, Jozef - HLINKOVÁ, E. - HLAVAČKA, Andrej - OVEČKA, Miroslav. Extracellular matrix in early stages of direct somatic embryogenesis in leaves of *Drosera spathulata*. In *Biologia Plantarum : international journal*. - Praha ; Dordrecht : Institute of Experimental Botany, Academy of Sciences of the Czech Republic : Springer Netherlands, 2003, vol. 47, no. 2, p. 161-166.

Ohlasy:

[1.1] KOKINA, Inese - SLEDEVSKIS, Eriks - GERBREDERS, Vjaceslavs - GRAUDA, Dace - JERMALONOKA, Marija - VALAINE, Kristina - GAVARANE, Inese - PIGINKA, Inga - FILIPOVICS, Maksims - RASHAL,

Isaak. REACTION OF FLAX (*Linum usitatissimum* L.) CALLI CULTURE TO SUPPLEMENT OF MEDIUM BY CARBON NANOPARTICLES. In Proceedings of the Latvian Academy of Sciences Section B Natural Exact and Applied Sciences, ISSN 1407-009X; 1407-009X, 2012, vol. 66, no. 4-5, p. 200-209. ISSN 1407-009X., WOS

- [1.1] LAI, K. S. - YUSOFF, K. - MAZIAH, M. Extracellular matrix as the early structural marker for *Centella asiatica* embryogenic tissues. In *BIOLOGIA PLANTARUM*, 2011, vol.55, no.3, 549-553., WOS
- [1.1] NEDELA, V. - HRIB, J. - VOOKOVA, B. Imaging of early conifer embryogenic tissues with the environmental scanning electron microscope. In *Biologia Plantarum*, 2012, vol. 56, no. 3, p. 595-598. ISSN 0006-3134., WOS
- [1.1] PALANYANDY, Sharrmila Rengeswari - SURANTHRAN, Periasamy - GANTAIT, Saikat - SINNIAH, Uma Rani - SUBRAMANIAM, Sreeramanan - AZIZ, Maheran Abdul - ALWEE, Sharifah Shahrul Rabiah Syed - ROOWI, Siti Habsah. In vitro developmental study of oil palm (*Elaeis guineensis* Jacq.) polyembryoids from cell suspension using scanning electron microscopy. In *Acta Physiologiae Plantarum*, 2013, vol. 35, no. 5, pp. 1727. ISSN 0137-5881., WOS
- [1.1] PILARSKA, Maria - KNOX, J. Paul - KONIECZNY, Robert. Arabinogalactan-protein and pectin epitopes in relation to an extracellular matrix surface network and somatic embryogenesis and callogenesis in *Trifolium nigrescens* Viv. In *Plant Cell Tissue and Organ Culture*, 2013, vol. 115, no. 1, pp. 35. ISSN 0167-6857., WOS
- [1.1] PILARSKA, Maria - POPIELARKA-KONIECZNA, Marzena - SLESAK, Halina - KOZIERADZKA-KISZKURNO, Małgorzata - GORALSKI, Grzegorz - KONIECZNY, Robert - BOHDANOWICZ, Jerzy - KUTA, Elżbieta. Extracellular matrix surface network is associated with non-morphogenic calli of *Helianthus tuberosus* cv. Albik produced from various explants. In *Acta Societatis Botanicorum Poloniae*, 2014, vol. 83, no. 1, pp. 67. ISSN 0001-6977., WOS
- [1.1] SALA, K. - POTOCKA, I. - KURCZYNSKA, E. Spatio-temporal distribution and methyl-esterification of pectic epitopes provide evidence of developmental regulation of pectins during somatic embryogenesis in *Arabidopsis thaliana*. In *Biologia Plantarum*, 2013, vol. 57, no. 3, pp. 410. ISSN 0006-3134., WOS
- [1.1] STEINMACHER, Douglas A. - SAARE-SURMINSKI, Katja - LIEBEREI, Reinhard. Arabinogalactan proteins and the extracellular matrix surface network during peach palm somatic embryogenesis. In *Physiologia Plantarum*, 2012, vol. 146, no. 3, p. 336-349. ISSN 0031-9317., WOS
- [1.2] DOBROWOLSKA, I. - MAJCHRZAK, O. - BALDWIN, T.C. - KURCZYNSKA, E.U. Differences in protodermal cell wall structure in zygotic and somatic embryos of *Daucus carota* (L.) cultured on solid and in liquid media. In *Protoplasma*, 2012, 249, 1, pp. 117-129., SCOPUS

ADCA17 BOBÁK, Milan - ŠAMAJ, Jozef - BLEHOVÁ, Alžbeta - OVEČKA, Miroslav - NOVOMESKÁ, S. - KRIŠTÍN, J. Morphology and ultrastructure of isolated gemmae of *Drosera pygmaea* and their in vitro germination. In *Biologia Plantarum : international journal*, 1998, vol. 41, no. 2, p. 169-176. (0.393 - IF1997). (1998 - Current Contents). ISSN 0006-3134.

Ohlasy:

- [1.1] PLACHNO, B.J. - ADAMEC, L. - KOZIERADZKA-KISZKURNO,

M. - SWIATEK, P. - KAMINSKA, I. Cytochemical and ultrastructural aspects of aquatic carnivorous plant turions. In *Protoplasma*, 2014, vol. 251, no. 6, p. 1449-1454. ISSN 0033-183X., WOS

ADCA18 BOBÁK, Milan - BLEHOVÁ, Alžbeta - ŠAMAJ, Jozef - OVEČKA, Miroslav - KRIŠTÍN, J. Studies of organogenesis from the callus culture of the sundew (*Drosera spathulata* Labill.). In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*, 1993, vol. 142, no. 2, p. 251-253. ISSN 0176-1617.

Ohlasy:

[1.1] JIMENEZ, V.M. - GUEVARA, E. - MASIS, S. Effect of macronutrients and sucrose concentration on in vitro growth of *Drosera capensis* L. (Droseraceae) plants, and evaluation of six substrates for acclimatization. In *Propagation of Ornamental Plants*, 2011, vol. 11, no. 1, p. 34-39. ISSN 1311-9109., WOS

[1.1] KOVACIK, Jozef - KLEJDUS, Borivoj - REPCAHOVA, Klara. Phenolic metabolites in carnivorous plants: Inter-specific comparison and physiological studies. In *Plant Physiology and Biochemistry*, 2012, vol. 52, p. 21-27. ISSN 0981-9428., WOS

ADCA19 BOBÁK, Milan - ŠAMAJ, Jozef - PREŤOVÁ, Anna - BLEHOVÁ, Alžbeta - HLINKOVÁ, E. - OVEČKA, Miroslav - HLAVAČKA, Andrej - KUTARŇOVÁ, Zuzana. The histological analysis of indirect somatic embryogenesis on *Drosera spathulata* Labill. In *Acta Physiologiae Plantarum*. - Warszawa : Polish Scientific Publishers, 2004, vol. 26, no. 3, p. 353-361. (0.438 - IF2003). (2004 - Current Contents). ISSN 0137-5881.

Ohlasy:

[1.1] LAI, K. S. - YUSOFF, K. - MAZIAH, M. Extracellular matrix as the early structural marker for *Centella asiatica* embryogenic tissues. In *BIOLOGIA PLANTARUM*, 2011, vol. 55, no. 3, 549-553., WOS

[1.1] PADUA, Marlucia Souza - PAIVA, Luciano Vilela - DA SILVA, Luciano Coutinho - DO LIVRAMENTO, Kalynka Gabriella - ALVES, Eduardo - FONSECA CASTRO, Ana Hortencia. Morphological characteristics and cell viability of coffee plants calli. In *Ciencia Rural*, 2014, vol. 44, no. 4, pp. 660. ISSN 0103-8478., WOS

[1.1] PILARSKA, Maria - KNOX, J. Paul - KONIECZNY, Robert. Arabinogalactan-protein and pectin epitopes in relation to an extracellular matrix surface network and somatic embryogenesis and callogenesis in *Trifolium nigrescens* Viv. In *Plant Cell Tissue and Organ Culture*, 2013, vol. 115, no. 1, pp. 35. ISSN 0167-6857., WOS

[1.1] RIBEIRO, Luciene de Oliveira - PAIVA, Luciano Vilela - PADUA, Marlucia Souza - SANTOS, Breno Regis - ALVES, Eduardo - STEIN, Vanessa Cristina. Morphological and ultrastructural analysis of various types of banana callus, cv. Prata ana. In *Acta Scientiarum-Agronomy*, 2012, vol. 34, no. 4, pp. 423. ISSN 1807-8621., WOS

ADCA20 BOBÁK, Milan - NÁDASKÁ, M. - ŠAMAJ, Jozef - BLEHOVÁ, Alžbeta - ERDELSKÝ, Karol - OVEČKA, Miroslav - KRIŠTÍN, Jozef. The Influence of elicitation on the subcellular localization and content of sanguinarine in callus cells of *papaver somniferum* L. In *Biologia Plantarum : international journal*. - Praha ;

Dordrecht : Institute of Experimental Botany, Academy of Sciences of the Czech Republic : Springer Netherlands, 1995, vol. 37, no. 4, p. 501-506.

Ohlasy:

- [1.1] RISCHER, H. - HAKKINEN, S.T. - RITALA, A. - SEPPANEN-LAAKSO, T. - MIRALPEIX, B. - CAPELL, T. - CHRISTOU, P. - OKSMAN-CALDENTEY, K.M. Plant Cells as Pharmaceutical Factories. In Current Pharmaceutical Design, 2013, vol. 19, no. 31, p. 5640-5660. ISSN 1381-6128., WOS

ADCA21 BOSZORÁDOVÁ, Eva - LIBANTOVÁ, Jana - MATUŠÍKOVÁ, Ildikó - POLÓNIOVÁ, Zuzana - JOPČÍK, Martin - BERENYI, M. - MORAVČÍKOVÁ, Jana. Agrobacterium-mediated genetic transformation of economically important oilseed rape cultivars. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2011, vol. 107, no. 2, p. 317-323. (1.243 - IF2010). (2011 - Current Contents). ISSN 0167-6857.

Ohlasy:

- [1.1] BANSAL, Anshu - KUMARI, Vijay - TANEJA, Dhakshi - SAYAL, Rupinder - DAS, Niranjan. Molecular cloning and characterization of granule-bound starch synthase I (GBSSI) alleles from potato and sequence analysis for detection of cis-regulatory motifs. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 109, no. 2, pp. 247., WOS
- [1.1] CHOI, Jun Young - SHIN, Jeong Sheop - CHUNG, Young Soo - HYUNG, Nam-In. An efficient selection and regeneration protocol for Agrobacterium-mediated transformation of oriental melon (*Cucumis melo* L. var. makuwa). In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 110, no. 1, pp. 133., WOS
- [1.1] LI, Xueyuan - FAN, Jing - GRUBER, Jens - GUAN, Rui - FRENTZEN, Margrit - ZHU, Li-Hua. Efficient selection and evaluation of transgenic lines of *Crambe abyssinica*. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] MILOJEVIC, Jelena - TUBIC, Ljiljana - NOLIC, Vladimir - MITIC, Nevena - CALIC-DRAGOSAVAC, Dusica - VINTERHALTER, Branka - ZDRAVKOVIC-KORAC, Snezana. Hygromycin promotes somatic embryogenesis in spinach. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 109, no. 3, pp. 573., WOS
- [1.1] PEREZ-ALONSO, Naivy - CHONG-PEREZ, Borys - CAPOTE, Alina - PEREZ, Anabel - IZQUIERDO, Yovanny - ANGENON, Geert - JIMENEZ, Elio. Agrobacterium tumefaciens-mediated genetic transformation of *Digitalis purpurea* L. In PLANT BIOTECHNOLOGY REPORTS. ISSN 1863-5466, 2014, vol. 8, no. 5, pp. 387., WOS
- [1.1] SUJATHA, M. - VIJAY, S. - VASAVI, S. - REDDY, P. Veera - RAO, S. Chander. Agrobacterium-mediated transformation of cotyledons of mature seeds of multiple genotypes of sunflower (*Helianthus annuus* L.). In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 110, no. 2, pp. 275., WOS
- [1.1] TRIFUNOVIC, Milana - CINGEL, Aleksandar - SIMONOVIC, Ana - JEVREMOVIC, Sladana - PETRIC, Marija - DRAGICEVIC, Ivana C. - MOTYKA, Vaclav - DOBREV, Petre I. - ZAHAJSKA, Lenka - SUBOTIC, Angelina. Overexpression of *Arabidopsis* cytokinin oxidase/dehydrogenase genes AtCKX1 and AtCKX2 in transgenic *Centaurium erythraea* Rafn. In PLANT

CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2013, vol. 15, no. 2, pp. 139., WOS

[1.1] ZHANG, Huijun - GAO, Peng - WANG, Xuezheng - LUAN, Feishi. An improved method of Agrobacterium tumefaciens-mediated genetic transformation system of melon (*Cucumis melo L.*). In JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0971-7811, 2014, vol. 23, no. 3, pp. 278., WOS

ADCA22 BOUWMEESTER, H.J. - MATÚŠOVÁ, Radoslava - SUN, Z.K. - BEALE, M.H. Secondary metabolite signalling in host-parasitic plant interactions. In *Current Opinion in Plant Biology*, 2003, vol. 6, no. 4, p. 358-364. (9.504 - IF2002). ISSN 1369-5266.

Ohlasy:

[1.1] AL SHERIF, E. A. - GHARIEB, H. R. Allelochemical effect of *Trianthema portulacastrum L.* on *Amaranthus viridis L.* supports the ecological importance of allelopathy. In AFRICAN JOURNAL OF AGRICULTURAL RESEARCH, 2011, vol.6, no.32, 6690., WOS

[1.1] ALY, R. Trafficking of molecules between parasitic plants and their hosts. In WEED RESEARCH. ISSN 0043-1737, 2013, vol. 53, no. 4, pp. 231., WOS

[1.1] ARITE, Tomotsugu - KAMEOKA, Hiromu - KYOZUKA, Junko. Strigolactone Positively Controls Crown Root Elongation in Rice. In JOURNAL OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2012, vol. 31, no. 2, pp. 165., WOS

[1.1] AROCA, Ricardo - MANUEL RUIZ-LOZANO, Juan - MARIA ZAMARRENO, Angel - ANTONIO PAZ, Jose - MARIA GARCIA-MINA, Jose - JOSE POZO, Maria - ANTONIO LOPEZ-RAEZ, Juan. Arbuscular mycorrhizal symbiosis influences strigolactone production under salinity and alleviates salt stress in lettuce plants. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2013, vol. 170, no. 1, pp. 47., WOS

[1.1] ARSLAN, Zubeyde Filiz - UYGUR, Feyzullah Nezihi. Potency of Some Synthetic Stimulants and Root Exudates on the Germination of *Phelipanche* spp. In TARIM BILIMLERİ DERGISI-JOURNAL OF AGRICULTURAL SCIENCES. ISSN 1300-7580, 2013, vol. 19, no. 3, pp. 198., WOS

[1.1] CISSOKO, Mamadou - BOISNARD, Arnaud - RODENBURG, Jonne - PRESS, Malcolm C. - SCHOLES, Julie D. New Rice for Africa (NERICA) cultivars exhibit different levels of post-attachment resistance against the parasitic weeds *Striga hermonthica* and *Striga asiatica*. In NEW PHYTOLOGIST, 2011, vol.192, no.4, 952., WOS

[1.1] DE VEGA, Clara - ARISTA, Montserrat - ORTIZ, Pedro L. - HERRERA, Carlos M. - TALAVERA, Salvador. Endozoochory by beetles: a novel seed dispersal mechanism. In ANNALS OF BOTANY, 2011, vol.107, no.4, 629., WOS

[1.1] DE-LA-PENA, Clelia - LOYOLA-VARGAS, Victor M. Biotic Interactions in the Rhizosphere: A Diverse Cooperative Enterprise for Plant Productivity. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 166, no. 2, pp. 701., WOS

[1.1] DOR, Evgenia - JOEL, Daniel M. - KAPULNIK, Yoram - KOLTAI, Hinanit - HERSHENHORN, Joseph. The synthetic strigolactone GR24

- influences the growth pattern of phytopathogenic fungi. In PLANTA, 2011, vol.234, no.2, 419., WOS
- [1.1] FERNANDEZ-APARICIO, M. - WESTWOOD, J. H. - RUBIALES, D. Agronomic, breeding, and biotechnological approaches to parasitic plant management through manipulation of germination stimulant levels in agricultural soils. In BOTANY-BOTANIQUE, 2011, vol.89, no.12, 813., WOS
- [1.1] FURUHASHI, Takeshi - FRAGNER, Lena - FURUHASHI, Katsuhisa - VALLEDOR, Luis - SUN, Xiaoliang - WECKWERTH, Wolfram. Metabolite changes with induction of Cuscuta haustorium and translocation from host plants. In JOURNAL OF PLANT INTERACTIONS. ISSN 1742-9145, 2012, vol. 7, no. 1, pp. 84., WOS
- [1.1] GARG, Neera - CHANDEL, Shikha - LICHTFOUSE, E - HAMELIN, M - NAVARRETE, M - DEBAEKE, P. Arbuscular Mycorrhizal Networks: Process and Functions. In SUSTAINABLE AGRICULTURE, VOL 2, 2011, vol., no., 907., WOS
- [1.1] GIBOT-LECLERC, Stephanie - SALLE, Georges - REBOUD, Xavier - MOREAU, Delphine. What are the traits of Phelipanche ramosa (L.) Pomel that contribute to the success of its biological cycle on its host Brassica napus L.? In FLORA. ISSN 0367-2530, 2012, vol. 207, no. 7, pp. 512., WOS
- [1.1] GIBOT-LECLERC, Stephanie - ABDENNEBI-ABDEMESSED, Nadia - REIBEL, Carole - COLBACH, Nathalie. Non-host facilitators, a new category that unexpectedly favours parasitic weeds. In AGRONOMY FOR SUSTAINABLE DEVELOPMENT. ISSN 1774-0746, 2013, vol. 33, no. 4, pp. 787., WOS
- [1.1] GIBOT-LECLERC, Stephanie - DESSAINT, Fabrice - REIBEL, Carole - LE CORRE, Valerie. Phelipanche ramosa (L.) Pomel populations differ in life-history and infection response to hosts. In FLORA. ISSN 0367-2530, 2013, vol. 208, no. 4, pp. 247., WOS
- [1.1] HAMIAUX, Cyril - DRUMMOND, Revel S. M. - JANSSEN, Bart J. - LEDGER, Susan E. - COONEY, Janine M. - NEWCOMB, Richard D. - SNOWDEN, Kimberley C. DAD2 Is an alpha/beta Hydrolase Likely to Be Involved in the Perception of the Plant Branching Hormone, Strigolactone. In CURRENT BIOLOGY. ISSN 0960-9822, 2012, vol. 22, no. 21, pp. 2032., WOS
- [1.1] HAMMOND, John P. - WHITE, Philip J. Sugar Signaling in Root Responses to Low Phosphorus Availability. In PLANT PHYSIOLOGY, 2011, vol.156, no.3, 1033., WOS
- [1.1] HEMMERLIN, Andrea - HARWOOD, John L. - BACH, Thomas J. A raison d'etre for two distinct pathways in the early steps of plant isoprenoid biosynthesis? In PROGRESS IN LIPID RESEARCH. ISSN 0163-7827, 2012, vol. 51, no. 2, pp. 95., WOS
- [1.1] Huang, Xin-ya - Guan, Kai-yun - Li, Ai-rong. Biological traits and their ecological significances of parasitic plants: A review. In Shengtaixue Zazhi, 2011, vol.30, no. 8, p. 1838-1844., WOS
- [1.1] CHEN, Fangyu - JIANG, Liangrong - ZHENG, Jingsheng - HUANG, Rongyu - WANG, Houcong - HONG, Zonglie - HUANG, Yumin. Identification of Differentially Expressed Proteins and Phosphorylated Proteins in Rice Seedlings in Response to Strigolactone Treatment. In PLOS ONE. ISSN 1932-6203, 2014, vol. 9, no. 4, pp., WOS
- [1.1] JIA, Kun-Peng - LUO, Qian - HE, Sheng-Bo - LU, Xue-Dan - YANG, Hong-Quan. Strigolactone-Regulated Hypocotyl Elongation Is Dependent on

- Cryptochrome and Phytochrome Signaling Pathways in *Arabidopsis*. In MOLECULAR PLANT. ISSN 1674-2052, 2014, vol. 7, no. 3, pp. 528., WOS
- [1.1] JOEL, Daniel M. - CHAUDHURI, Swapan K. - PLAKHINE, Dina - ZIADNA, Hammam - STEFFENS, John C. Dehydrocostus lactone is exuded from sunflower roots and stimulates germination of the root parasite *Orobanche cumana*. In PHYTOCHEMISTRY, 2011, vol.72, no.7, 624., WOS
- [1.1] JUNG, Sabine C. - MARTINEZ-MEDINA, Ainhoa - LOPEZ-RAEZ, Juan A. - POZO, Maria J. Mycorrhiza-Induced Resistance and Priming of Plant Defenses. In JOURNAL OF CHEMICAL ECOLOGY. ISSN 0098-0331, 2012, vol. 38, no. 6, pp. 651., WOS
- [1.1] KAPULNIK, Yoram - KOLTAI, Hinanit. Strigolactone Involvement in Root Development, Response to Abiotic Stress, and Interactions with the Biotic Soil Environment. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 166, no. 2, pp. 560., WOS
- [1.1] KHAN, Zeyaur R. - MIDEGA, Charles A. O. - PITTCHEAR, Jimmy O. - MURAGE, Alice W. - BIRKETT, Michael A. - BRUCE, Toby J. A. - PICKETT, John A. Achieving food security for one million sub-Saharan African poor through push-pull innovation by 2020. In PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES. ISSN 0962-8436, 2014, vol. 369, no. 1639, pp., WOS
- [1.1] KHETKAM, Pichit - XIE, Xiaonan - KISUGI, Takaya - KIM, Hyun Il - YONEYAMA, Kaori - UCHIDA, Kenichi - YOKOTA, Takao - NOMURA, Takahito - YONEYAMA, Koichi. 7 alpha- and 7 beta-Hydroxyorobanchyl acetate as germination stimulants for root parasitic weeds produced by cucumber. In JOURNAL OF PESTICIDE SCIENCE. ISSN 1348-589X, 2014, vol. 39, no. 3-4, pp. 121., WOS
- [1.1] KOHLSCHMID, Eva - MUELLER-STOEVER, D. - SAUERBORN, J. Spreading of the Parasitic Weed *Phelipanche ramosa* in German Agriculture. In GESUNDE PFLANZEN, 2011, vol.63, no.2, 69., WOS
- [1.1] LEE, Wai-Leng - SHIAU, Jeng-Yuan - SHYUR, Lie-Fen - SHYUR, LF - LAU, ASY. Taxol, Camptothecin and Beyond for Cancer Therapy. In RECENT TRENDS IN MEDICINAL PLANTS RESEARCH. ISSN 0065-2296, 2012, vol. 62, no., pp. 133., WOS
- [1.1] LIU, Junwei - LOVISOLI, Claudio - SCHUBERT, Andrea - CARDINALE, Francesca. Signaling role of Strigolactones at the interface between plants, (micro)organisms, and a changing environment. In JOURNAL OF PLANT INTERACTIONS. ISSN 1742-9145, 2013, vol. 8, no. 1, pp. 17., WOS
- [1.1] LOPEZ-RAEZ, Juan A. - POZO, Maria J. - AROCA, R. Chemical Signalling in the Arbuscular Mycorrhizal Symbiosis: Biotechnological Applications. In SYMBIOTIC ENDOPHYTES. ISSN 1613-3382, 2013, vol. 37, no., pp. 215., WOS
- [1.1] LOUARN, Johann - CARBONNE, Francis - DELAVAULT, Philippe - BECARD, Guillaume - ROCHANGE, Soizic. Reduced Germination of *Orobanche cumana* Seeds in the Presence of Arbuscular Mycorrhizal Fungi or Their Exudates. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 11, pp., WOS
- [1.1] MA YONGQING - ZHANG WEI - DONG SHUQI - REN XIANGXIANG - AN YU - LANG MING. Induction of seed germination in *Orobanche* spp. by extracts of traditional Chinese medicinal herbs. In SCIENCE CHINA-LIFE SCIENCES. ISSN 1674-7305, 2012, vol. 55, no. 3, pp. 250., WOS

- [1.1] MAKOI, Joachim H. J. R. - NDAKIDEMI, Patrick A. Allelopathy as protectant, defence and growth stimulants in legume cereal mixed culture systems. In NEW ZEALAND JOURNAL OF CROP AND HORTICULTURAL SCIENCE. ISSN 0114-0671, 2012, vol. 40, no. 3, pp. 161., WOS
- [1.1] MA, Yongqing - JIA, Jinnan - AN, Yu - WANG, Zhong - MAO, Jianchang. Potential of Some Hybrid Maize Lines to Induce Germination of Sunflower Broomrape. In CROP SCIENCE. ISSN 0011-183X, 2013, vol. 53, no. 1, pp. 260., WOS
- [1.1] MIDEGA, Charles A. O. - PITTCCHAR, Jimmy - SALIFU, Daisy - PICKETT, John A. - KHAN, Zeyaur R. Effects of mulching, N-fertilization and intercropping with Desmodium uncinatum on *Striga hermonthica* infestation in maize. In CROP PROTECTION. ISSN 0261-2194, 2013, vol. 44, no., pp. 44., WOS
- [1.1] MILLER, J. Benjamin - OLDROYD, Giles E. D. - PEROTTO, S. The Role of Diffusible Signals in the Establishment of Rhizobial and Mycorrhizal Symbioses. In SIGNALING AND COMMUNICATION IN PLANT SYMBIOSIS. ISSN 1867-9048, 2012, vol., no., pp. 1., WOS
- [1.1] MIZUTANI, Masaharu. Impacts of Diversification of Cytochrome P450 on Plant Metabolism. In BIOLOGICAL & PHARMACEUTICAL BULLETIN. ISSN 0918-6158, 2012, vol. 35, no. 6, pp. 824., WOS
- [1.1] OKUBAMICHAEL, Desale Y. - GRIFFITHS, Megan E. - WARD, David. Reciprocal transplant experiment suggests host specificity of the mistletoe *Agelanthus natalitius* in South Africa. In JOURNAL OF TROPICAL ECOLOGY. ISSN 0266-4674, 2014, vol. 30, no., pp. 153., WOS
- [1.1] POZO, Maria J. - JUNG, Sabine C. - MARTINEZ-MEDINA, Ainhoa - LOPEZ-RAEZ, Juan A. - AZCON-AGUILAR, Concepcion - BAREA, Jose-Miguel - AROCA, R. Root Allies: Arbuscular Mycorrhizal Fungi Help Plants to Cope with Biotic Stresses. In SYMBIOTIC ENDOPHYTES. ISSN 1613-3382, 2013, vol. 37, no., pp. 289., WOS
- [1.1] RAUPP, Frank M. - SPRING, Otmar. New Sesquiterpene Lactones from Sunflower Root Exudate as Germination Stimulants for *Orobanche cumana*. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2013, vol. 61, no. 44, pp. 10481., WOS
- [1.1] RENNE, Ian J. - SINN, Brandon T. - SHOOK, Gregory W. - SEDLACKO, David M. - DULL, Jessica R. - VILLARREAL, Diego - HIERRO, Jose L. Eavesdropping in plants: delayed germination via biochemical recognition. In JOURNAL OF ECOLOGY. ISSN 0022-0477, 2014, vol. 102, no. 1, pp. 86., WOS
- [1.1] RUBIO-MORAGA, Angela - AHRAZEM, Oussama - PEREZ-CLEMENTE, Rosa M. - GOMEZ-CADENAS, Aurelio - YONEYAMA, Koichi - LOPEZ-RAEZ, Juan Antonio - MOLINA, Rosa Victoria - GOMEZ-GOMEZ, Lourdes. Apical dominance in saffron and the involvement of the branching enzymes CCD7 and CCD8 in the control of bud sprouting. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2014, vol. 14, no., pp., WOS
- [1.1] SABBAGH, Seyed Kazem - MAZAHERI, Mahta - PANJEHKEH, Naser - SALARI, Mohammed. Transcriptomic analysis of *Sporisorium reilianum* in response to the strigolactone analogue GR24. In PHYTOPATHOLOGIA MEDITERRANEA. ISSN 0031-9465, 2012, vol. 51, no. 2, pp. 283., WOS
- [1.1] SETO, Yoshiya - YAMAGUCHI, Shinjiro. Strigolactone biosynthesis and perception. In CURRENT OPINION IN PLANT BIOLOGY. ISSN

1369-5266, 2014, vol. 21, no., pp. 1., WOS

- [1.1] WALTER, Michael H. - STRACK, Dieter. Carotenoids and their cleavage products: Biosynthesis and functions. In NATURAL PRODUCT REPORTS, 2011, vol.28, no.4, 663., WOS
- [1.1] WANG, Yonghong - LI, Jiayang. Branching in rice. In CURRENT OPINION IN PLANT BIOLOGY, 2011, vol.14, no.1, 94., WOS
- [1.1] YOSHIDA, Satoko - SHIRASU, Ken. Plants that attack plants: molecular elucidation of plant parasitism. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2012, vol. 15, no. 6, pp. 708., WOS
- [1.1] ZWANENBURG, Binne - MWAKABOKO, Alinanuswe S. Strigolactone analogues and mimics derived from phthalimide, saccharine, p-tolylmalondialdehyde, benzoic and salicylic acid as scaffolds. In BIOORGANIC & MEDICINAL CHEMISTRY, 2011, vol.19, no.24, 7394., WOS
- [1.1] ZWANENBURG, Binne - MWAKABOKO, Alinanuswe S. Strigolactone analogues and mimics derived from phthalimide, saccharine, p-tolylmalondialdehyde, benzoic and salicylic acid as scaffolds. In BIOORGANIC & MEDICINAL CHEMISTRY, 2011, vol.19, no.24, 7394., WOS
- [1.1] ZWANENBURG, Binne - POSPISIL, Tomas. Structure and Activity of Strigolactones: New Plant Hormones with a Rich Future. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 38., WOS
- [1.2] AMRI, M. - ABBES, Z. - YOUSSEF, S.B. - BOUHADIDA, M. - SALAH, H.B. - KHARRAT, M. Detection of the parasitic plant, orobanche cumana on sunflower (*Helianthus annuus L.*) in Tunisia. In African Journal of Biotechnology, 2012, 11, 18, pp. 4163-4167., SCOPUS
- [1.2] ĆAVAR, Sanja - ĆAVAR, Sanja - ZWANENBURG, Binne - ZWANENBURG, Binne - TARKOWSKI, Petr. Strigolactones: occurrence, structure, and biological activity in the rhizosphere. In Phytochemistry Reviews. ISSN 15687767, 2014-06-25, 14, 4, pp. 691-711., SCOPUS
- [1.2] GIBOT-LECLERC, Stéphanie - GIBOT-LECLERC, Stéphanie - REIBEL, Carole - LE CORRE, Valérie - DESSAINT, Fabrice. Unexpected fast development of branched broomrape on slow-growing Brassicaceae. In Agronomy for Sustainable Development. ISSN 17740746, 2014-01-01, 35, 1, pp. 151-156., SCOPUS
- [1.2] IBDAH, Mwafaq - DUBEY, Neeraj Kumar - EIZENBERG, Hanan - DABOUR, Ziad - ABU-NASSAR, Jacklin - GAL-ON, Amit - ALY, Radi. Cucumber Mosaic Virus as a carotenoid inhibitor reducing *Phelipanche aegyptiaca* infection in tobacco plants. In Plant Signaling and Behavior. ISSN 15592316, 2014-12-22, 9, 10, pp. 1-6., SCOPUS
- [3.1] Jun,Ruihong - Chen, Guilin - Li, Meijia - Li Wei. Effect of Different Resistant Sunflower Varieties Root Exudates on Germination of Orobanche cumana Seeds. In Xibei Zhiwu Xuebao, 2014, vol. 34, no. 7, pp. 1397-1403.

ADCA23 BRISIBE, E.A - GAJDOŠOVÁ, Alena - OLESEN, Anette-Andersen - SVEN, Bode. Cytodifferentiation and transformation of embryogenic callus lines derived from anther culture of wheat. In *Journal of experimental botany*, 2000, vol. 51, no. 343, p. 187-196. ISSN 0022-0957.

Ohlasy:

- [1.1] BREW-APPIAH, Rhoda A. T. - ANKRAH, Nii - LIU, Weiguo -

- KONZAK, Calvin F. - VON WETTSTEIN, Diter - RUSTGI, Sachin. Generation of Doubled Haploid Transgenic Wheat Lines by Microspore Transformation. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 11, pp., WOS
- [1.1] CHAUHAN, Harsh - KHURANA, Paramjit. Use of doubled haploid technology for development of stable drought tolerant bread wheat (*Triticum aestivum L.*) transgenics. In PLANT BIOTECHNOLOGY JOURNAL, 2011, vol.9, no.3, 408., WOS
- [1.1] SUN, De-Quan - LU, Xin-Hua - LIANG, Guo-Lu - GUO, Qi-Gao - MO, Yi-Wei - XIE, Jiang-Hui. Production of triploid plants of papaya by endosperm culture. In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.104, no.1, 23., WOS
- [1.2] DARBANI, B.- FARAJNIA, S.-TOORCHI, M.- ZAKERBOSTANABAD, S.- NOEPARVAR, S.- STEWART, Jr.- C.N. DNA-delivery methods to produce transgenic plants. In Biotechnology, 2011, vol. 10, no. 4, p. 323-340.
- [1.2] PACINI, E. Pollen and seed analogies. In Plant Biosystems. ISSN 11263504, 2012-09-01, 146, 3, pp. 738-748., SCOPUS
- [3] KRUGLOVA, N. N.- DUBBROVNA, O. V. Morphogenesis of cereal androclinal calluses in vitro. In Fiziologiya i Biokhimia Kulturnykh Rastenii, 2011, vol. 43, no. 1, p. 15-25.
- [3] RIVERA, Ana Leonor - GÓMEZ-LIM, Miguel - FERNANDEZ, Francisco - M LOSKE, Achim. Physical methods for genetic plant transformation. In Physics of Life Reviews, 2012, vol.9 no.3, p. 308-345.
- [3] Ye Xing-Guo; Chen Ming; Du Li-Pu Description and evaluation of transformation approaches used in wheat. In Yichuan, 2011, vol.33, no. 5, p. 422-430.
- [3.1] Badr, Eldin A. E. Saeed - Marmar, A. El Siddig - Aisha, Ohag Osman - Adil, A. El Hussein . A Simple and Efficient Protocol for Callus Induction and Regeneration from Wheat (*Triticum aestivum L.*) Mature Embryos. In International Journal of Science and Research (IJSR), 2014, vol. 3, no. 7.
- [3.1] Richard, Mundembe - Richard F. - Allison - Idah, Sithole - Niang. Genetic Engineering of Plants for Resistance to Viruses. In Genetic Engineering-Basics, New Applications and Responsibilities, 2012, ISBN:978-953-307-790-1, pp. 121-144.
- [3.1] R. MURÍN - K. MÉSZÁROS - P. NEMEČEK - R. KUNA - J. FARAGÓ. REGENERATION OF IMMATURE AND MATURE EMBRYOS FROM DIVERSE SETS OF WHEAT GENOTYPES USING MEDIA CONTAINING DIFFERENT AUXINS. In Acta Agronomica Hungarica, 2012, 60(2), pp. 97–108.

ADCA24 BUGÁROVÁ, Zuzana - PREŤOVÁ, Anna. Isolated microspore cultures in *Solanum tuberosum* cultivars. In Biologia, 1996, vol. 51, no. 4, p.411-416. ISSN 1335-6372.

Ohlasy:

- [1.1] WROBEL, Justyna - BARLOW, Peter W. - GORKA, Karolina - NABIALKOWSKA, Danuta - KURCZYNSKA, Ewa U. Histology and symplasmic tracer distribution during development of barley androgenic embryos. In PLANTA, 2011, vol.233, no.5, 873., WOS

ADCA25 CONNER, A.J. - KEIZER, L.C.P. - MLYNÁROVÁ, Ľudmila - STIEKEMA, W.J. - NAP, J.P. Evaluation of diallel analysis using beta-glucuronidase activity from transgenes in *Nicotiana tabacum*. In *Euphytica*, . ISSN 0014-2336.

Ohlasy:

- [1.1] CASTANON-NAJERA, Guillermo - MAYEK-PEREZ, Netzahualcoyotl - RUIZ-SALAZAR, Regulo - GARCIA, Araceli C. Molecular study of a diallel chilli with amplified fragment length polymorphism (AFLP) markers. In AFRICAN JOURNAL OF AGRICULTURAL RESEARCH, 2011, vol.6, no.28, 6126-6131., WOS
- [1.1] CASTANON-NAJERA, G. - RAMIREZ-MERAZ, M. - RUIZ-SALAZAR, R. - MAYEK-PEREZ, N. AFLP marker application to explore heterosis in *Capsicum* spp. In PHYTON-INTERNATIONAL JOURNAL OF EXPERIMENTAL BOTANY, 2011, vol.80, no., 53., WOS

ADCA26 CONNER, A.J. - MLYNÁROVÁ, Ľudmila - STIEKEMA, W. J. - NAP, Jan Peter. Gametophytic expression of GUS activity controlled by the potato Lhca3.St.1 promoter in tobacco pollen. In *Journal of experimental botany*, 1999, vol. 50, no. 338, p. 1471-1479. ISSN 0022-0957.

Ohlasy:

- [1.1] CHEN, Zhong - GALLIE, Daniel R. Induction of Monozygotic Twinning by Ascorbic Acid in Tobacco. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 6, pp., WOS
- [1.1] ROUSSEAU-GUEUTIN, Mathieu - LLOYD, Andrew H. - SHEPPARD, Anna E. - TIMMIS, Jeremy N. - BULLERWELL, CE. Gene Transfer to the Nucleus. In ORGANELLE GENETICS: EVOLUTION OF ORGANELLE GENOMES AND GENE EXPRESSION, 2012, vol., no., pp. 147., WOS

ADCA27 ČIAMPOROVÁ, Milada - PREŤOVÁ, Anna. Ultrastructural changes of plastids in flax embryos cultivated in vitro. In *New Phytologist*. - London : Academic Press, 1981, vol. 87, p. 473-479. ISSN 0028-646X.

Ohlasy:

- [1.1] KIM, J. - OLINARES, P.D. - OH, S.H. - GHISAURA, S. - POLIAKOV, A. - PONNALA, L. - VAN WIJK, K.J. Modified Clp Protease Complex in the ClpP3 Null Mutant and Consequences for Chloroplast Development and Function in *Arabidopsis*. In Plant Physiology, 2013, vol. 162, no. 1, p. 157-179. ISSN 0032-0889., WOS

ADCA28 DANCHENKO, Maksym - ŠKULTÉTY, Ľudovít - RASHYDOV, Namik M. - BEREZHNA, Valentyna V. - MÁTEL, Ľubomír - SALAJ, Terézia - PREŤOVÁ, Anna - HAJDUCH, Martin. Proteomic analysis of mature soybean seeds from the Chernobyl area suggests plant adaptation to the contaminated environment. In *Journal of Proteome Research*, 2009, vol. 8, no. 6, p. 2915-2922. (5.684 - IF2008). (2009 - Current Contents). ISSN 1535-3893.

Ohlasy:

- [1.1] Alam, I (Alam, Iftekhar)1; Sharmin, SA (Sharmin, Shamima Akhtar)1; Kim, KH (Kim, Kyung-Hee)1; Kim, YG (Kim, Yong-Goo)1; Lee, JJ (Lee, Jeung Joo)2; Bahk, JD (Bahk, Jeong Dong)1; Lee, BH (Lee, Byung-Hyun)1 Comparative proteomic approach to identify proteins involved in flooding combined with salinity stress in soybean PLANT AND SOIL Volume: 346

Issue: 1-2 Pages: 45-62 DOI: 10.1007/s11104-011-0792-0 Published: SEP 2011, WOS

[1.1] Beata Pirselova; Ildiko Matusikova Plant Defense Against Heavy Metals: The Involvement of Pathogenesis-Related (PR) Proteins Awaad, AS; Kaushik, G; Govil, JN MECHANISM AND ACTION OF PHYTOCONSTITUENTS Book Series: Recent Progress in Medicinal Plants Volume: 31 Pages: 179-205 Published: 2011, WOS

[1.1] D'Alessandro, Angelo; Zolla, Lello We Are What We Eat: Food Safety and Proteomics JOURNAL OF PROTEOME RESEARCH Volume: 11 Issue: 1 Pages: 26-36 DOI: 10.1021/pr2008829 Published: JAN 2012, WOS

[1.1] Gicquel, M (Gicquel, Morgane)1; Esnault, MA (Esnault, Marie-Andree)1; Jorrin-Novo, JV (Jorrin-Novo, Jesus V.)2; Cabello-Hurtado, F (Cabello-Hurtado, Francisco)1 Application of proteomics to the assessment of the response to ionising radiation in *Arabidopsis thaliana* JOURNAL OF PROTEOMICS Volume: 74 Issue: 8 Special Issue: SI Pages: 1364-1377 DOI: 10.1016/j.jprot.2011.03.025 Published: AUG 12 2011, WOS

[1.1] KOEDRITH, Preeyaporn - KIM, HyeLim - WEON, Jong-II - SEO, Young Rok. Toxicogenomic approaches for understanding molecular mechanisms of heavy metal mutagenicity and carcinogenicity. In INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH. ISSN 1438-4639, 2013, vol. 216, no. 5, pp. 587., WOS

[1.1] Kosova, K (Kosova, Klara)1; Vitamvas, P (Vitamvas, Pavel)1; Prasil, IT (Prasil, Ilja Tom)1; Renaut, J (Renaut, Jenny)2 Plant proteome changes under abiotic stress - Contribution of proteomics studies to understanding plant stress response JOURNAL OF PROTEOMICS Volume: 74 Issue: 8 Special Issue: SI Pages: 1301-1322 DOI: 10.1016/j.jprot.2011.02.006 Published: AUG 12 2011, WOS

[1.1] Luque-Garcia Jose L.; Cabezas-Sanchez Pablo; Camara Carmen Proteomics as a tool for examining the toxicity of heavy metals TRAC-TRENDS IN ANALYTICAL CHEMISTRY Volume: 30 Issue: 5 Pages: 703-716 DOI: 10.1016/j.trac.2011.01.014 Published: MAY 2011, WOS

[1.1] Natarajan, S (Natarajan, Savithiry)[ 1 ] ; Luthria, D (Luthria, Devanand)[ 2 ] ; Bae, H (Bae, Hanhong)[ 3 ] ; Lakshman, D (Lakshman, Dilip)[ 4 ] ; Mitra, A (Mitra, Amitava)[ 5 ] Transgenic Soybeans and Soybean Protein Analysis: An Overview JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY Volume: 61 Issue: 48 Pages: 11736-11743, 2013, WOS

[1.1] Park, SK (Park, Seul-Ki)[ 1 ] ; Seo, JB (Seo, Jong-Bok)[ 2 ] ; Lee, MY (Lee, Mi-Young)[ 1 ] Proteomic profiling of hempseed proteins from Cheungsam BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS Volume: 1824 Issue: 2 Pages: 374-382 DOI: 10.1016/j.bbapap.2011.10.005 Published: FEB 2012, WOS

[1.1] Yang, LM (Yang, Liming)1; Tian, DG (Tian, Dagang)2; Luo, YM (Luo, Yuming)1; Zhang, RY (Zhang, Ruiyue)1; Ren, CM (Ren, Chongmiao)1; Zhou, X (Zhou, Xin)1 Proteomics-based identification of storage, metabolic, and allergenic proteins in wheat seed from 2-DE gels AFRICAN JOURNAL OF AGRICULTURAL RESEARCH Volume: 6 Issue: 4 Pages: 808-816 Published: FEB 18 2011, WOS

[1.1] YIN, Yongqi - YANG, Runqiang - GU, Zhenxin. Organ-Specific

Proteomic Analysis of NaCl-Stressed Germinating Soybeans. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2014, vol. 62, no. 29, pp. 7233., WOS

[1.1] Zhao, XF (Zhao, Xiufeng)[ 1,2 ] ; Ding, CQ (Ding, Chengqiang)[ 1 ] ; Chen, L (Chen, Lin)[ 1 ] ; Wang, SH (Wang, Shaohua)[ 1 ] ; Wang, QS (Wang, Qiangsheng)[ 1 ] ; Ding, YF (Ding, Yanfeng)[ 1 ] Comparative proteomic analysis of the effects of nitric oxide on alleviating Cd-induced toxicity in rice (*Oryza sativa L.*) PLANT OMICS Volume: 5 Issue: 6 Pages: 604-614 Published: NOV 2012, WOS

[1.2] Møller, A.P., Mousseau, T.A. The effects of natural variation in background radioactivity on humans, animals and other organisms Biological Reviews 88 (1) , pp. 226-254 , 2013, SCOPUS

ADCA29 DEDIČOVÁ, B. - HRICOVÁ, Andrea - ŠAMAJ, Jozef - OBERT, Bohuš - BOBAK, M. - PREŤOVÁ, Anna. Shoots and embryo-like structures regenerated from cultured flax (*Linum usitatissimum L.*) hypocotyl segments. In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*, 2000, vol. 157, no. 3, p.327-334. (2000 - Current Contents). ISSN 0176-1617.

Ohlasy:

[1.1] BURBULIS, Natalija - BLINSTRUBIENE, Ausra - MASIENE, Ramune - JANKAUSKIENE, Zofija - GRUZDEVIENE, Elvyra. Genotypic and growth regulator effects on organogenesis from hypocotyl explants of fiber flax (*Linum usitatissimum L.*). In JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, 2012, vol.10, no.1, 397., WOS

[1.1] SHYSHA, E. N. - KORHOVYU, V. I. - BAYER, G. Ya. - GUZENKO, E. V. - LEMESH, V. A. - KARTEL&APOS;, N. A. - YEMETS, A. I. - BLUME, Ya. B. Genetic transformation of flax (*Linum usitatissimum L.*) with the chimeric GFP-TUA6 gene for the visualization of microtubules. In CYTOLOGY AND GENETICS. ISSN 0095-4527, 2013, vol. 47, no. 2, pp. 63., WOS

[1.1] WIELGUS, K. - SZALATA, M. - SLOMSKI, R. - KOZLOWSKI, RM. Genetic engineering and biotechnology of natural textile fiber plants. In HANDBOOK OF NATURAL FIBRES, VOL 1: TYPES, PROPERTIES AND FACTORS AFFECTING BREEDING AND CULTIVATION. ISSN 2042-0803, 2012, vol., no. 118, pp. 550., WOS

[9] GUO, Ling-Ling - MIAO, Shu-Kui - JI, Qiao-Lingm - JIANG, Li. High Frequency Somatic Embryogenesis and Histological Observation on *Linum usitatissimum L.* 'Fany'. In Bulletin of Botanical Research, 2011, vol.31, no. 3, p. 306-312.

[9] Shysha, E. N.- Yemets, A. I.- Guzenko, E. V.- Lemesh, V. A.- Kartel, N. A.- Blume, Ya. B. STUDY OF THE REGENERATION CAPABILITY AND ROOT FORMATION IN UKRAINIAN AND BELARUSIAN FLAX CULTIVARS. In Fiziologiya i Biokhimia Kulturnykh Rastenii, 2011, vol.43, no. 1, p. 57-64.

ADCA30 DHONUKSHE, Pankaj - ŠAMAJ, Jozef - BALUŠKA, František - FRIML, J. A unifying new model of cytokinesis for the dividing plant and animal cells. In BioEssays : new and reviews in molecular, cellular and developmental biology, 2007, vol. 29, no. 4, p. 371-381. (5.965 - IF2006). ISSN 0265-9247.

Ohlasy:

- [1.1] GOYA, Anupama - TAKAINE, Masak - SIMANIS, Viesturs - NAKANO, Kentaro. Dividing the Spoils of Growth and the Cell Cycle: The Fission Yeast as a Model for the Study of Cytokinesis. In CYTOSKELETON, 2011, vol.68, no.2, 69-88., WOS
- [1.1] WANG, Wenzhu - LAZAREVA, Elena - KYREEV, Igor - SMIRNOVA, Elena. The role of microtubules in the maintenance of regular localization and arrangement of Golgi apparatus in root cells of *Triticum aestivum* L. In Process Biochemistry, 2012, vol. 47, no. 11, pp. 1545. ISSN 1359-5113., WOS

ADCA31 DHONUKSHE, Pankaj - BALUŠKA, František - SCHLICHT, Marcus - HLAVAČKA, Andrej - ŠAMAJ, Jozef - FRIML, J. - GADELLA, T. W. Endocytosis of cell surface material mediates cell plate formation during plant cytokinesis. In *Developmental Cell*. - Elsevier, 2006, vol. 10, no. 1, p. 137-150.

Ohlasy:

- [1.1] BACH, Lien - GISSOT, Lionel - MARION, Jessica - TELLIER, Frederique - MOREAU, Patrick - SATIAT-JEUNEMAITRE, Beatrice - PALAUQUI, Jean-Christophe - NAPIER, Johnathan A. - FAURE, Jean-Denis. Very-long-chain fatty acids are required for cell plate formation during cytokinesis in *Arabidopsis thaliana*. In JOURNAL OF CELL SCIENCE, 2011, vol.124, no.19, 3223-3234., WOS
- [1.1] BAR-PELED, Maor - O'NEILL, Malcolm A. Plant Nucleotide Sugar Formation, Interconversion, and Salvage by Sugar Recycling. In ANNUAL REVIEW OF PLANT BIOLOGY, VOL 62, 2011, vol.62, no., 127-155., WOS
- [1.1] BECK, Martina - ZHOU, Ji - FAULKNER, Christine - MACLEAN, Daniel - ROBATZEK, Silke. Spatio-Temporal Cellular Dynamics of the *Arabidopsis* Flagellin Receptor Reveal Activation Status-Dependent Endosomal Sorting. In Plant Cell, 2012, vol. 24, no. 10, pp. 4205. ISSN 1040-4651., WOS
- [1.1] CLARK, Greg B. - MORGAN, Reginald O. - FERNANDEZ, Maria-Pilar - ROUX, Stanley J. Evolutionary adaptation of plant annexins has diversified their molecular structures, interactions and functional roles. In New Phytologist, 2012, vol. 196, no. 3, pp. 695. ISSN 0028-646X., WOS
- [1.1] DE STORME, Nico - GEELEN, Danny. Callose homeostasis at plasmodesmata: molecular regulators and developmental relevance. In Frontiers in Plant Science, 2014, vol. 5. ISSN 1664-462X., WOS
- [1.1] DOTY, Karen F. - BETZELBERGER, Amy M. - KOCOT, Kevin M. - COOK, Martha E. IMMUNOFLUORESCENCE LOCALIZATION OF THE TUBULIN CYTOSKELETON DURING CELL DIVISION AND CELL GROWTH IN MEMBERS OF THE COLEOCHAETALES (STREPTOPHYTA). In Journal of Phycology, 2014, vol. 50, no. 4, pp. 624. ISSN 0022-3646., WOS
- [1.1] EBINE, Kazuo - FUJIMOTO, Masaru - OKATANI, Yusuke - NISHIYAMA, Tomoaki - GOH, Tatsuaki - ITO, Emi - DAINOBU, Tomoko - NISHITANI, Aiko - UEMURA, Tomohiro - SATO, Masa H. - THORDAL-CHRISTENSEN, Hans - TSUTSUMI, Nobuhiro - NAKANO, Akihiko - UEDA, Takashi. A membrane trafficking pathway regulated by the plant-specific RAB GTPase ARA6. In NATURE CELL BIOLOGY, 2011, vol.13, no.7, 853-U279., WOS
- [1.1] FIGARD, Lauren - XU, Heng - GARCIA, Hernan G. - GOLDING, Ido

- SOKAC, Anna Marie. The Plasma Membrane Flattens Out to Fuel Cell-Surface Growth during Drosophila Cellularization. In *Developmental Cell*, 2013, vol. 27, no. 6, pp. 648. ISSN 1534-5807., WOS
- [1.1] HOEPFLINGER, Marion C. - GERETSCHLAEGER, Anja - SOMMER, Aniela - HOEFTBERGER, Margit - NISHIYAMA, Tomoaki - SAKAYAMA, Hidetoshi - HAMMERL, Peter - TENHAKEN, Raimund - UEDA, Takashi - FOISSNER, Ilse. Molecular and biochemical analysis of the first ARA6 homologue, a RAB5 GTPase, from green algae. In *Journal of Experimental Botany*, 2013, vol. 64, no. 18, pp. 5553. ISSN 0022-0957., WOS
- [1.1] HU, Chi-Kuo - COUGHLIN, Margaret - MITCHISON, Timothy J. Midbody assembly and its regulation during cytokinesis. In *Molecular Biology of the Cell*, 2012, vol.23, no.6, 1024., WOS
- [1.1] KAKAR, Klementina - ZHANG, Hongtao - SCHERES, Ben - DHONUKSHE, Pankaj. CLASP-mediated cortical microtubule organization guides PIN polarization axis (Retracted article. See vol. 508, 2014). In *Nature*, 2013, vol. 495, no. 7442, pp. 529. ISSN 0028-0836., WOS
- [1.1] KANG, Byung-Ho - NIELSEN, Erik - PREUSS, Mary Lai - MASTRONARDE, David - STAHELIN, L. Andrew. Electron Tomography of RabA4b-and PI-4K beta 1-Labeled Trans Golgi Network Compartments in Arabidopsis. In *TRAFFIC*, 2011, vol.12, no.3, 313-329., WOS
- [1.1] KIM, Sang-Jin - BRANDIZZI, Federica. The Plant Secretory Pathway: An Essential Factory for Building the Plant Cell Wall. In *Plant and Cell Physiology*, 2014, vol. 55, no. 4, pp. 687. ISSN 0032-0781., WOS
- [1.1] KLIMA, A. - FOISSNER, I. Actin-dependent deposition of putative endosomes and endoplasmic reticulum during early stages of wound healing in characean internodal cells. In *PLANT BIOLOGY*, 2011, vol.13, no.4, 590-601., WOS
- [1.1] LAW, Angus Ho Yin - CHOW, Cheung-Ming - JIANG, Liwen. Secretory carrier membrane proteins. In *Protoplasma*, 2012, vol. 249, no.2, 269., WOS
- [1.1] LI, Hong-Ju - XUE, Yong - JIA, Dong-Jie - WANG, Tong - SHI, Dong-Qiao - LIU, Jie - CUI, Feng - XIE, Qi - YE, De - YANG, Wei-Cai. POD1 Regulates Pollen Tube Guidance in Response to Micropylar Female Signaling and Acts in Early Embryo Patterning in Arabidopsis. In *PLANT CELL*, 2011, vol.23, no.9, 3288-3302., WOS
- [1.1] LUNN, Daniel - GADDIPATI, Sanyasi R. - TUCKER, Gregory A. - LYCETT, Grantley W. Null Mutants of Individual RABA Genes Impact the Proportion of Different Cell Wall Components in Stem Tissue of *Arabidopsis thaliana*. In *Plos One*, 2013, vol. 8, no. 10. ISSN 1932-6203., WOS
- [1.1] McMICHAEL, Colleen M. - BEDNAREK, Sebastian Y. Cytoskeletal and membrane dynamics during higher plant cytokinesis. In *New Phytologist*, 2013, vol. 197, no. 4, pp. 1039. ISSN 0028-646X., WOS
- [1.1] NIKLAS, Karl J. THE EVOLUTIONARY-DEVELOPMENTAL ORIGINS OF MULTICELLULARITY. In *American Journal of Botany*, 2014, vol. 101, no. 1, pp. 6. ISSN 0002-9122., WOS
- [1.1] NIKLAS, Karl J. - COBB, Edward D. - CRAWFORD, David R. The evo-devo of multinucleate cells, tissues, and organisms, and an alternative route to multicellularity. In *Evolution & Development*, 2013, vol. 15, no. 6, pp. 466. ISSN 1520-541X., WOS
- [1.1] OLSEN, L. - BROWN, R. - LEMMON, B. - LID, S. E. -

- OPSAHL-SORTEBERG, H.G. - HVOSLEFEIDE, AK. Characterizing Cell Divisions and Cell Identity in Atdek1 Mutant Embryos by Cytoskeletal Studies and Localization of the AtML1, WUS and STM Meristem Markers. In I INTERNATIONAL SYMPOSIUM ON GENETIC MODIFICATIONS CHALLENGES AND OPPORTUNITIES FOR HORTICULTURE IN THE WORLD, 2012, vol. 941, no., pp. 55. ISSN 0567-7572., WOS
- [1.1] PARK, Eunsook - DIAZ-MORENO, Sara M. - DAVIS, Destiny J. - WILKOP, Thomas E. - BULONE, Vincent - DRAKAKAKI, Georgia. Endosidin 7 Specifically Arrests Late Cytokinesis and Inhibits Callose Biosynthesis, Revealing Distinct Trafficking Events during Cell Plate Maturation. In Plant Physiology, 2014, vol. 165, no. 3, pp. 1019. ISSN 0032-0889., WOS
- [1.1] PARK, Misoon - TOUIHRI, Sonja - MUELLER, Isabel - MAYER, Ulrike - JUERGENS, Gerd. Sec1/Munc18 Protein Stabilizes Fusion-Competent Syntaxin for Membrane Fusion in Arabidopsis Cytokinesis. In Developmental Cell, 2012, vol.22, no.5, 989., WOS
- [1.1] PAUDYAL, Rupesh - JAMALUDDIN, Adam - WARREN, James P. - DOYLE, Siamsa M. - ROBERT, Stephanie - WARRINER, Stuart L. - BAKER, Alison. Trafficking modulator TENin1 inhibits endocytosis, causes endomembrane protein accumulation at the pre-vacuolar compartment and impairs gravitropic response in *Arabidopsis thaliana*. In Biochemical Journal, 2014, vol. 460, no., pp. 177. ISSN 0264-6021., WOS
- [1.1] QI, Xingyun - ZHENG, Huanquan. Rab-A1c GTPase Defines a Population of the Trans-Golgi Network that Is Sensitive to Endosidin1 during Cytokinesis in *Arabidopsis*. In Molecular Plant, 2013, vol. 6, no. 3, pp. 847. ISSN 1674-2052., WOS
- [1.1] QI, Xingyun - ZHENG, Huanquan - RUNNING, MP. Functional Analysis of Small Rab GTPases in Cytokinesis in *Arabidopsis thaliana*. In G Protein-Coupled Receptor Signaling in Plants: Methods and Protocols, 2013, vol. 1043, no., pp. 103. ISSN 1064-3745., WOS
- [1.1] RYBAK, Katarzyna - STEINER, Alexander - SYNEK, Lukas - KLAEGER, Susan - KULICH, Ivan - FACHER, Eva - WANNER, Gerhard - KUSTER, Bernhard - ZARSKY, Viktor - PERSSON, Staffan - ASSAAD, Farhah F. Plant Cytokinesis Is Orchestrated by the Sequential Action of the TRAPPII and Exocyst Tethering Complexes. In Developmental Cell, 2014, vol. 29, no. 5, pp. 607. ISSN 1534-5807., WOS
- [1.1] SATO-IZAWA, Kanna - NAKABA, Satoshi - TAMURA, Katsunori - YAMAGISHI, Yusuke - NAKANO, Yoshimi - NISHIKUBO, Nobuyuki - KAWAI, Shinya - KAJITA, Shinya - ASHIKARI, Motoyuki - FUNADA, Ryo - KATAYAMA, Yoshihiro - KITANO, Hidemi. DWARF50 (D50), a rice (*Oryza sativa* L.) gene encoding inositol polyphosphate 5-phosphatase, is required for proper development of intercalary meristem. In Plant Cell and Environment, 2012, vol. 35, no. 11, pp. 2031. ISSN 0140-7791., WOS
- [1.1] SONG, Kyungyoung - JANG, Mihue - KIM, Soo Youn - LEE, Goeun - LEE, Gil-Je - KIM, Dae Heon - LEE, Yongjik - CHO, Wonhwa - HWANG, Inhwan. An A/ENTH Domain-Containing Protein Functions as an Adaptor for Clathrin-Coated Vesicles on the Growing Cell Plate in *Arabidopsis* Root Cells. In Plant Physiology, 2012, vol. 159, no. 3, pp. 1013. ISSN 0032-0889., WOS
- [1.1] SPARKES, Imogen - BRANDIZZI, Federica. Fluorescent protein-based technologies: shedding new light on the plant endomembrane system. In Plant Journal, 2012, vol.70, no.1, 96., WOS

- [1.1] TANG, Bor Luen. Membrane Trafficking Components in Cytokinesis. In *Cellular Physiology and Biochemistry*, 2012, vol. 30, no. 5, pp. 1097. ISSN 1015-8987., WOS
- [1.1] URBINA, Daniela - PEREZ-HENRIQUEZ, Patricio - NORAMBUENA, Lorena - HICKS, GR - ROBERT, S. The Use of Multidrug Approach to Uncover New Players of the Endomembrane System Trafficking Machinery. In *Plant Chemical Genomics: Methods and Protocols*, 2014, vol. 1056, no., pp. 131. ISSN 1064-3745., WOS
- [1.1] VAN DAMME, Daniel - GADEYNE, Astrid - VANSTRAELEN, Marleen - INZE, Dirk - VAN MONTAGU, Marc C. E. - DE JAEGER, Geert - RUSSINOVA, Eugenia - GEELEN, Danny. Adapitin-like protein TPLATE and clathrin recruitment during plant somatic cytokinesis occurs via two distinct pathways. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 2011, vol.108, no.2, 615-620., WOS
- [1.1] WOLF, Sebastian - HEMATY, Kian - HOEFTE, Herman - MERCHANT, SS. Growth Control and Cell Wall Signaling in Plants. In *Annual Review of Plant Biology*, vol. 63, 2012, vol.63, p. 381., WOS
- [1.1] WORDEN, Natasha - PARK, Eunsook - DRAKAKAKI, Georgia. Trans-Golgi Network-An Intersection of Trafficking Cell Wall Components. In *Journal of Integrative Plant Biology*, 2012, vol. 54, no. 11, pp. 875. ISSN 1672-9072., WOS
- [1.1] YU, Miao - ZHAO, Jie. The cytological changes of tobacco zygote and proembryo cells induced by beta-glucosyl Yariv reagent suggest the involvement of arabinogalactan proteins in cell division and cell plate formation. In *BMC Plant Biology*, 2012, vol. 12., WOS
- [1.1] ZHANG, Liang - ZHANG, Haiyan - LIU, Peng - HAO, Huaiqing - JIN, Jing Bo - LIN, Jinxing. Arabidopsis R-SNARE Proteins VAMP721 and VAMP722 Are Required for Cell Plate Formation. In *PLOS ONE*, 2011, vol.6, no.10., WOS
- [1.1] ZHANG, Ying - IMMINK, Richard - LIU, Chun-Ming - EMONS, Anne Mie - KETELAAR, Tijs. The Arabidopsis exocyst subunit SEC3A is essential for embryo development and accumulates in transient puncta at the plasma membrane. In *New Phytologist*, 2013, vol. 199, no. 1, pp. 74. ISSN 0028-646X., WOS

ADCA32 DUBAS, Eva - WEDZONY, Maria - PETROVSKÁ, Beáta - SALAJ, Ján. Cell structural reorganization during induction of androgenesis in isolated microspore cultures of triticale (x triticosecalen wittm.). In *Acta Biologica Cracoviensia.Series Botanica*, 2010, vol. 52, no. 1, p. 73-86. (0.571 - IF2009). (2010 - Current Contents). ISSN 0001-5296.

Ohlasy:

- [1.1] Rubtsova, M - Gnad, H - Melzer, M - Weyen, J - Gils, M. The auxins centrophenoxyne and 2,4-D differ in their effects on non-directly induced chromosome doubling in anther culture of wheat (T-aestivum L.) In *PLANT BIOTECHNOLOGY REPORTS*, 2013, vol. 7, no. 3, p. 247-255., WOS
- [1.1] Soriano, Mercedes - Li, Hui - Boutilier, Kim. Microspore embryogenesis: establishment of embryo identity and pattern in culture. In *PLANT REPRODUCTION*, 2013, vol. 26, no. 3, p. 181-196., WOS

ADCA33 DUBAS, E. - MORAVČÍKOVÁ, Jana - LIBANTOVÁ, Jana - MATUŠÍKOVÁ, Ildikó - BENKOVÁ, E. - ZUR, I. - KRZEWSKA, M. The influence of heat stress on auxin distribution in transgenic B-napus microspores and microspore-derived embryos. In *Protoplasma*, 2014, vol. 251, no. 5, p.1077-1087. (3.171 - IF2013). (2014 - Current Contents). ISSN 0033-183X.

Ohlasy:

[1.1] AHMADI, Behzad - SHARIATPANAHI, Mehran E. - OJAGHKANDI, Mehdi Aghapour - HEYDARI, Ali Akbar. Improved microspore embryogenesis induction and plantlet regeneration using putrescine, cefotaxime and vancomycin in *Brassica napus* L. In *PLANT CELL TISSUE AND ORGAN CULTURE*.

ISSN 0167-6857, 2014, vol. 118, no. 3, pp. 497., WOS

ADCA34 FANG, K. - WANGA, Y. - YUA, T. - LINGYUN, Z. - BALUŠKA, František - ŠAMAJ, Jozef - LIN, J. Isolation of de-exined pollen and cytological studies of the pollen intines of *Pinus bungeana* Zucc. Ex Endl. and *Picea wilsonii* Mast. In *Flora : morphology, distribution, functional ecology of plants*, 2008, vol. 203, no. 4, p. 332-340. (1.157 - IF2007). (2008 - Current Contents). ISSN 0367-2530.

Ohlasy:

[1.1] ABERCROMBIE, J.M. - O'MEARA, B.C. - MOFFATT, A.R. - WILLIAMS, J.H. Developmental evolution of flowering plant pollen tube cell walls: callose synthase (CalS) gene expression patterns. In *Evodevo*, 2011, vol. 2. ISSN 2041-9139., WOS

[1.1] NGUEMA-ONA, E. - COIMBRA, S. - VICRE-GIBOUI, M. - MOLLET, J.C. - DRIOUICH, A. Arabinogalactan proteins in root and pollen-tube cells: distribution and functional aspects. In *Annals of Botany*, 2012, vol. 110, no. 2, SI, p. 383-404. ISSN 0305-7364., WOS

[1.1] WEI, K. - SUN, Z.H. - YAN, Z.G. - TAN, Y.L. - WANG, H. - ZHU, X.L. - WANG, X.J. - SHENG, P.C. - ZHU, R.L. Effects of Taishan *Pinus massoniana* pollen polysaccharide on immune response of rabbit haemorrhagic disease tissue inactivated vaccine and on production performance of Rex rabbits. In *Vaccine*, 2011, vol. 29, no. 14, p. 2530-2536. ISSN 0264-410X., WOS

ADCA35 FLUCH, Silvia - OLMO, Christian Carlo - TAUBER, Stefanie - STIERSCHNEIDER, Michael - KOPECKÝ, Dieter - REICHENAUER, Thomas G. - MATUŠÍKOVÁ, Ildikó. Transcriptomic changes in wind-exposed poplar leaves are dependent on developmental stage. In *Planta*, 2008, vol. 228, no. 5, p. 757-764. (2008 - Current Contents).

Ohlasy:

[1.1] DEWOODY, Jennifer - VIGER, Maud - LAKATOS, Ferenc - TUBA, Katalin - TAYLOR, Gail - SMULDERS, Marinus J. M. Insight into the Genetic Components of Community Genetics: QTL Mapping of Insect Association in a Fast-Growing Forest Tree. In *PLOS ONE*. ISSN 1932-6203, 2013, vol. 8, no. 11, pp., WOS

[1.1] MOULIA, B. - LOUGHIAN, C. Der - BASTIEN, R. - MARTIN, O. - RODRIGUEZ, M. - GOURCILLEAU, D. - BARBACCI, A. - BADEL, E. - FRANCHEL, G. - LENNE, C. - ROECKEL-DREVET, P. - ALLAIN, J. M. - FRACHISSE, J. M. - DE LANGRE, E. - COUTAND, C. - FOURNIER-LEBLANC, N. - JULIEN, J. L. - WOJTASZEK, P. Integrative Mechanobiology of Growth and Architectural Development in Changing Mechanical Environments. In *MECHANICAL INTEGRATION OF PLANT*

CELLS AND PLANTS, 2011, vol., no., 269., WOS

[1.1] NEALE, David B. - KREMER, Antoine. Forest tree genomics: growing resources and applications. In NATURE REVIEWS GENETICS, 2011, vol.12, no.2, 111., WOS

[1.1] THAMMAWONG, M. - KANETA, T. - UMEHARA, H. - NAKAMURA, N. - ITO, Y. - SHIINA, T. - KANLAYANARAT, S - ACEDO, AL - WONGSAREE, C. Expression of Physical Wound Stress-Responsive Genes in *Arabidopsis thaliana* and Cabbage (*Brassica oleracea* var. *capitata* L.). In SOUTHEAST ASIA SYMPOSIUM ON QUALITY MANAGEMENT IN POSTHARVEST SYSTEMS AND ASIA PACIFIC SYMPOSIUM ON POSTHARVEST QUALITY MANAGEMENT OF ROOT AND TUBER CROPS. ISSN 0567-7572, 2013, vol. 989, no., pp. 73., WOS

ADCA36 GAJDOŠOVÁ, Alena - VOOKOVÁ, Božena - KORMUTÁK, Andrej - LIBIAKOVÁ, Gabriela - DOLEŽEL, J. INDUCTION, PROTEIN-COMPOSITION AND DNA-PLOIDY LEVEL OF EMBRYOGENIC CALLI OF SILVER FIR AND ITS HYBRIDS. In *Biologia Plantarum*, 1995, vol. 37, no. 4, p. 169-176. ISSN 0006-3134.

Ohlasy:

[1.1] KRAJNAKOVA, Jana - BERTOLINI, Alberto - GOEMOERY, Dusan - VIANELLO, Angelo - HAGGMAN, Hely. Initiation, long-term cryopreservation, and recovery of *Abies alba* Mill. embryogenic cell lines. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT. ISSN 1054-5476, 2013, vol. 49, no. 5, pp. 560., WOS

[1.1] RIBEIRO SILVA, Thais Cristina - CARVALHO, Carlos Roberto. Vertical heterogeneity of DNA ploidy level assessed by flow cytometry in calli of *Passiflora Cincinnata*. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT. ISSN 1054-5476, 2014, vol. 50, no. 2, pp. 158., WOS

[1.2] KORECKÝ, J. - VÍTÁMVÁS, J. Somatic embryogenesis of the hybrid *Abies cilicica* × *Abies cephalonica*. In Journal of Forest Science. ISSN 12124834, 2011-09-19, 57, 9, pp. 401-408., SCOPUS

[3.1] Krajňáková, J.- Gömöry, D.- Häggman, H. Biotechnology Tools for Conservation of the Biodiversity of European and Mediterranean *Abies* Species. Chapter 14, 287-310. In Biotechnology and Biodiversity 4. Springer International Publishing Switzerland 2014. DOI 10.1007/978-3-319-09381-9\_14.

ADCA37 GESTEL, van K. - SLEGERS, H. - WITSCH, von M. - ŠAMAJ, Jozef - BALUŠKA, František - VERBELEN, Jean-Pierre. Immunological evidence for the presence of plant homologues of the actin-related protein Arp3 in tobacco and maize: subcellular localization to actin-enriched pit fields and emerging root hairs. In *Protoplasma*, 2003, vol. 222, no.1-2, p. 45-52. (1.473 - IF2002). (2003 - Current Contents). ISSN 0033-183X.

Ohlasy:

[1.1] BURCH-SMITH, Tessa M. - ZAMBRYSKI, Patricia C. - MERCHANT, SS. Plasmodesmata Paradigm Shift: Regulation from Without Versus Within. In ANNUAL REVIEW OF PLANT BIOLOGY, VOL 63, 2012, vol.63, no., 239., WOS

[1.1] FAULKNER, Christine - MAULE, Andy. Opportunities and successes in the search for plasmodesmal proteins. In PROTOPLASMA, 2011, vol.248,

no.1, 27-38., WOS

- [1.1] FERNANDEZ-CALVINO, Lourdes - FAULKNER, Christine - WALSHAW, John - SAALBACH, Gerhard - BAYER, Emmanuelle - BENITEZ-ALFONSO, Yoselin - MAULE, Andrew. Arabidopsis Plasmodesmal Proteome. In PLOS ONE, 2011, vol.6, no.4., WOS
- [1.1] KETELAAR, Tijs. The actin cytoskeleton in root hairs: all is fine at the tip. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2013, vol. 16, no. 6, pp. 749., WOS
- [1.1] PEI, Weike - DU, Fei - ZHANG, Yi - HE, Tian - REN, Haiyun. Control of the actin cytoskeleton in root hair development. In PLANT SCIENCE, 2012, vol.187, no., 10., WOS
- [1.1] WHITE, Rosemary G. - BARTON, Deborah A. The cytoskeleton in plasmodesmata: a role in intercellular transport? In JOURNAL OF EXPERIMENTAL BOTANY, 2011, vol.62, no.15, 5249-5266., WOS
- [1.1] ZHANG, Chunhua - MALLERY, Eileen L. - SZYMANSKI, Daniel B. ARP2/3 localization in Arabidopsis leaf pavement cells: a diversity of intracellular pools and cytoskeletal interactions. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS

ADCA38 HAJDUCH, Martin - NAHÁLKOVÁ, J. - HŘIB, J. - VOOKOVÁ, Božena - GEMEINER, Peter. An electrophoretic analysis of the seed protein body proteins from Pinus nigra. In *Biologia Plantarum : international journal*, 2001, vol.44, no. 1, p. 137-140. (2001 - Current Contents). ISSN 0006-3134.

Ohlasy:

- [1.1] Mataruga, M (Mataruga, Milan); Isajev, V (Isajev, Vasilije); Konstantinov, K (Konstantinov, Kosana); Mladenovic-Drinic, S (Mladenovic-Drinic, Snezana); Ballian, D (Ballian, Dalibor) In: PHYTON-ANNALES REI BOTANICAE Volume: 52 Issue: 2 Pages: 263-280, WOS
- [1.1] MATARUGA, Milan - ISAJEV, Vasilije - KONSTANTINOV, Kosana - MLADENOVIC-DRINIC, Snezana - BALLIAN, Dalibor. Proteins as Gene Markers of Tolerance to Drought in Austrian Pine (*Pinus nigra* ARNOLD). In PHYTON-ANNALES REI BOTANICAE. ISSN 0079-2047, 2012, vol. 52, no. 2, pp. 263., WOS

ADCA39 HAJDUCH, Martin - MATÚŠOVÁ, Radislava - HOUSTON, N.L. - THELEN, J.J. Comparative proteomics of seed maturation in oilseeds reveals differences in intermediary metabolism. In *Proteomics*, 2011, vol. 11, no. 9, p. 1619-1629. (4.815 - IF2010). (2011 - Current Contents). ISSN 1615-9853.

Ohlasy:

- [1.1] BARVKAR, Vitthal T. - PARDESHI, Varsha C. - KALE, Sandip M. - KADOO, Narendra Y. - GIRI, Ashok P. - GUPTA, Vidya S. Proteome Profiling of Flax (*Linum usitatissimum*) Seed: Characterization of Functional Metabolic Pathways Operating during Seed Development. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2012, vol. 11, no. 12, pp. 6264., WOS
- [1.1] JIANG, Huawu - WU, Pingzhi - ZHANG, Sheng - SONG, Chi - CHEN, Yaping - LI, Meiru - JIA, Yongxia - FANG, Xiaohua - CHEN, Fan - WU, Guojiang. Global Analysis of Gene Expression Profiles in Developing Physic Nut (*Jatropha curcas* L.) Seeds. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 5, pp., WOS

- [1.1] LI, Wenlan - GAO, Yi - XU, Hong - ZHANG, Yu - WANG, Jianbo. A Proteomic Analysis of Seed Development in *Brassica campestris* L. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 11, pp., WOS
- [1.1] TEH, Huey Fang - NEOH, Bee Keat - HONG, May Ping Li - LOW, Jaime Yoke Sum - NG, Theresa Lee Mei - ITHNIN, Nalisha - THANG, Yin Mee - MOHAMED, Mohaimi - CHEW, Fook Tim - YUSOF, Hirzun Mohd - KULAVEERASINGAM, Harikrishna - APPLETON, David R. Differential Metabolite Profiles during Fruit Development in High-Yielding Oil Palm Mesocarp. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 4, pp., WOS
- [1.1] TOPOLCAN, O. - KINKROVA, J. - KARLIKHOVA, M. - SVOBODOVA, S. - FUCHSOVA, R. Specialised education for personalized medicine why? In PROCEEDINGS OF THE II INTERNATIONAL CONFERENCE ON ENVIRONMENTAL STRESSORS IN BIOLOGY AND MEDICINE INTERNATIONAL CONGRESS ON PERSONALIZED MEDICINE 4TH ASIAN PACIFIC CONGRESS ON BRONCHOLOGY AND INTERVENTIONAL PULMONOLOGY, 2012, vol., no., pp. 79., WOS
- [1.1] VANHERCKE, Thomas - WOOD, Craig C. - STYMNE, Sten - SINGH, Surinder P. - GREEN, Allan G. Metabolic engineering of plant oils and waxes for use as industrial feedstocks. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2013, vol. 11, no. 2, pp. 197., WOS
- [1.2] NOGUERO, Mélanie - GALLARDO, Karine - VERDIER, Jérôme - LE SIGNOR, Christine - BURSTIN, Judith - THOMPSON, Richard D. Legume Seed Genomics: How to Respond to the Challenges and Potential of a Key Plant Family? In Seed Genomics, 2013-02-05, pp. 179-201., SCOPUS

ADCA40 HAJDUCH, Martin - RAKWAL, R. - AGRAWAL, G.K. - YONEKURA, M. - PRETOVÁ, Anna. High-resolution two-dimensional electrophoresis separation of proteins from metal-stressed rice (*Oryza sativa* L.) leaves: Drastic reductions/fragmentation of ribulose-1,5-bisphosphate carboxylase/oxygenase and induction of stress-related proteins. In *Electrophoresis*, 2001, vol. 22, no. 13, p. 2824-2831. (3.385 - IF2000). (2001 - Current Contents). ISSN 0173-0835.

Ohlasy:

- [1.1] ALMARCEGUI, Rodrigo J. - NAVARRO, Claudio A. - PARADELA, Alberto - PABLO ALBAR, Juan - VON BERNATH, Diego - JEREZ, Carlos A. New Copper Resistance Determinants in the Extremophile Acidithiobacillus ferrooxidans: A Quantitative Proteomic Analysis. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2014, vol. 13, no. 2, pp. 946., WOS
- [1.1] AYDAS, Seniha Selcen Babaoglu - ACIK, Leyla - LEDUC, Danika - ADIGUZEL, Nezaket - ELLIALTIOGLU, Sekure Sebnem - SULUDERE, Zekkiye - KADIOGLU, Yusuf Kagan. Localization and distribution of nickel and other elements in in-vitro grown *Alyssum corsicum* exhibiting morphological changes in trichomes: initial insights into molecular mechanisms of nickel hyperaccumulation. In TURKISH JOURNAL OF BOTANY. ISSN 1300-008X, 2013, vol. 37, no. 6, pp. 1115., WOS
- [1.1] BAZARGANI, Mitra Mohammadi - SARHADI, Elham - BUSHEHRI, Ali-Akbar Shahnejat - MATROS, Andrea - MOCK, Hans-Peter - NAGHAVI, Mohammad-Reza - HAJIHOSEINI, Vahid - MARDI, Mohsen - HAJIREZAEI, Mohammad-Reza - MORADI, Foad - EHDAIE, Bahman - SALEKDEH, Ghasem Hosseini. A proteomics view on the role of drought-induced senescence

- and oxidative stress defense in enhanced stem reserves remobilization in wheat. In JOURNAL OF PROTEOMICS, 2011, vol.74, no.10, 1959., WOS
- [1.1] BEATA, Pirselova - ILDIKO, Matusikova. Plant Defense Against Heavy Metals: The Involvement of Pathogenesis-Related (PR) Proteins. In MECHANISM AND ACTION OF PHYTOCONSTITUENTS, 2011, vol.31, no., 179., WOS
- [1.1] DENG, Gang - LIU, Li Jun - ZHONG, Xin Yue - LAO, Cheng Ying - WANG, Hong Yang - WANG, Bo - ZHU, Cong - SHAH, Fahad - PENG, Ding Xiang. Comparative proteome analysis of the response of ramie under N, P and K deficiency. In PLANTA. ISSN 0032-0935, 2014, vol. 239, no. 6, pp. 1175., WOS
- [1.1] DUPAE, Joke - BOHLER, Sacha - NOBEN, Jean-Paul - CARPENTIER, Sebastien - VANGRONSVELD, Jaco - CUYPERS, Ann. Problems inherent to a meta-analysis of proteomics data: A case study on the plants' response to Cd in different cultivation conditions. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2014, vol. 108, no., pp. 30., WOS
- [1.1] FATEHI, Foad - HOSSEINZADEH, Abdolhadi - ALIZADEH, Houshang - BRIMAVANDI, Tahereh - STRUIK, Paul C. The proteome response of salt-resistant and salt-sensitive barley genotypes to long-term salinity stress. In MOLECULAR BIOLOGY REPORTS. ISSN 0301-4851, 2012, vol. 39, no. 5, pp. 6387., WOS
- [1.1] FATEHI, F. - HOSSEINZADEH, A. - ALIZADEH, H. - BRIMAVANDI, T. The Proteome Response of Hordeum spontaneum to Salinity Stress. In CEREAL RESEARCH COMMUNICATIONS. ISSN 0133-3720, 2013, vol. 41, no. 1, pp. 78., WOS
- [1.1] GARG, Neera - AGGARWAL, Nalini. Effects of Interactions Between Cadmium and Lead on Growth, Nitrogen Fixation, Phytochelatin, and Glutathione Production in Mycorrhizal Cajanus cajan (L.) Millsp. In JOURNAL OF PLANT GROWTH REGULATION, 2011, vol.30, no.3, 286., WOS
- [1.1] GU, Xianbin - GAO, Zhihong - ZHUANG, Weibing - QIAO, Yushan - WANG, Xiuyun - MI, Lin - ZHANG, Zhen - LIN, Zhilin. Comparative proteomic analysis of rd29A:RdREB1BI transgenic and non-transgenic strawberries exposed to low temperature. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2013, vol. 170, no. 7, pp. 696., WOS
- [1.1] HEGO, Elena - BES, Clemence M. - BEDON, Frank - PALAGI, Patricia M. - CHAUMEIL, Philippe - BARRE, Aurelien - CLAVEROL, Stephane - DUPUY, Jean-William - BONNEU, Marc - LALANNE, Celine - PLOMION, Christophe - MENCH, Michel. Differential accumulation of soluble proteins in roots of metallocolous and nonmetallicolous populations of Agrostis capillaris L. exposed to Cu. In PROTEOMICS. ISSN 1615-9853, 2014, vol. 14, no. 15, pp. 1746., WOS
- [1.1] HOSSAIN, Zahed - HAJIKA, Makita - KOMATSU, Setsuko. Comparative proteome analysis of high and low cadmium accumulating soybeans under cadmium stress. In AMINO ACIDS. ISSN 0939-4451, 2012, vol. 43, no. 6, pp. 2393., WOS
- [1.1] HOSSAIN, Zahed - KHATOON, Amana - KOMATSU, Setsuko. Soybean Proteomics for Unraveling Abiotic Stress Response Mechanism. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4670., WOS
- [1.1] HOSSAIN, Zahed - KOMATSU, Setsuko. Contribution of proteomic studies towards understanding plant heavy metal stress response. In FRONTIERS

IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 3, no., pp., WOS

[1.1] HOSSAIN, Zahed - MAKINO, Takahiro - KOMATSU, Setsuko.

Proteomic study of beta-aminobutyric acid-mediated cadmium stress alleviation in soybean. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2012, vol. 75, no. 13, pp. 4151., WOS

[1.1] KOSOVA, Klara - VITAMVAS, Pavel - PRASIL, Ilja Tom - RENAUT, Jenny. Plant proteome changes under abiotic stress Contribution of proteomics studies to understanding plant stress response. In JOURNAL OF PROTEOMICS, 2011, vol.74, no.8, 1301., WOS

[1.1] LAN JIN-PING - LI LI-YUN - JIA LIN - CAO YING-HAO - BAI HUI - CHEN HAO - LIU SHENG-NAN - WU LIN - LIU GUO-ZHEN. Expression Profiling of Chloroplast-encoded Proteins in Rice Leaves at Different Growth Stages. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS, 2011, vol.38, no.7, 652., WOS

[1.1] LEE, Dong-Gi - PARK, Kee Woong - AN, Jae Young - SOHN, Young Geol - HA, Jung Ki - KIM, Hak Yoon - BAE, Dong Won - LEE, Kyung Hee - KANG, Nam Jun - LEE, Byung-Hyun - KANG, Kyu Young - LEE, Jeung Joo. Proteomics analysis of salt-induced leaf proteins in two rice germplasms with different salt sensitivity. In CANADIAN JOURNAL OF PLANT SCIENCE, 2011, vol.91, no.2, 337., WOS

[1.1] LINGUA, Guido - BONA, Elisa - TODESCHINI, Valeria - CATTANEO, Chiara - MARSANO, Francesco - BERTA, Graziella - CAVALETTO, Maria. Effects of Heavy Metals and Arbuscular Mycorrhiza on the Leaf Proteome of a Selected Poplar Clone: A Time Course Analysis. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 6, pp., WOS

[1.1] LONG, Guiyou - SONG, Jinyu - DENG, Ziniu - LIU, Jie - RAO, Liqun. Ptcorp gene induced by cold stress was identified by proteomic analysis in leaves of Poncirus trifoliata (L.) Raf. In MOLECULAR BIOLOGY REPORTS. ISSN 0301-4851, 2012, vol. 39, no. 5, pp. 5859., WOS

[1.1] MANAA, Arafet - MIMOUNI, Hajar - WASTI, Salma - GHARBI, Emna - ASCHI-SMITI, Samira - FAUROBERT, Mireille - BEN AHMED, Hela. Comparative proteomic analysis of tomato (*Solanum lycopersicum*) leaves under salinity stress. In PLANT OMICS. ISSN 1836-0661, 2013, vol. 6, no. 4, pp. 268., WOS

[1.1] MISHRA, Sandhya - SRIVASTAVA, Suchi - NAUTIYAL, Chandra Shekhar. Differential gene expression profile in *Pseudomonas putida* NBRIC19-treated wheat (*Triticum aestivum*) plants subjected to biotic stress of *Parthenium hysterophorus*. In MOLECULAR BIOLOGY REPORTS. ISSN 0301-4851, 2014, vol. 41, no. 3, pp. 1385., WOS

[1.1] NICOLARDI, Valentina - CAI, Giampiero - PARROTTA, Luigi - PUGLIA, Michele - BIANCHI, Laura - BINI, Luca - GAGGI, Carlo. The adaptive response of lichens to mercury exposure involves changes in the photosynthetic machinery. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2012, vol. 160, no., pp. 1., WOS

[1.1] NWUGO, Chika C. - HUERTA, Alfredo J. The Effect of Silicon on the Leaf Proteome of Rice (*Oryza sativa* L.) Plants under Cadmium-Stress. In JOURNAL OF PROTEOME RESEARCH, 2011, vol.10, no.2, 518., WOS

[1.1] OVECKA, M. - TAKAC, T. Managing heavy metal toxicity stress in plants: Biological and biotechnological tools. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2014, vol. 32, no. 1, pp. 73., WOS

- [1.1] PERLIKOWSKI, D. - KOSMALA, A. - RAPACZ, M. - KOSCIELNIAK, J. - PAWLOWICZ, I. - ZWIERZYKOWSKI, Z. Influence of short-term drought conditions and subsequent re-watering on the physiology and proteome of *Lolium multiflorum*/*Festuca arundinacea* introgression forms, with contrasting levels of tolerance to long-term drought. In *PLANT BIOLOGY*. ISSN 1435-8603, 2014, vol. 16, no. 2, pp. 385., WOS
- [1.1] POS, V. - HUNYADI-GULYAS, E. - CAIAZZO, R. - JOCSAK, I. - MEDZIHRADSZKY, K. F. - LUKACS, N. INDUCTION OF PATHOGENESIS-RELATED PROTEINS IN INTERCELLULAR FLUID BY CADMIUM STRESS IN BARLEY (*HORDEUM VULGARE* L.) A PROTEOMIC ANALYSIS. In *ACTA ALIMENTARIA*, 2011, vol.40, no., 164., WOS
- [1.1] RODZIEWICZ, Paweł - SWARCEWICZ, Barbara - CHMIELEWSKA, Klaudia - WOJAKOWSKA, Anna - STOBIECKI, Maciej. Influence of abiotic stresses on plant proteome and metabolome changes. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2014, vol. 36, no. 1, pp. 1., WOS
- [1.1] ROY, Somnath - BANERJEE, Amrita - BHATTACHARYA, Somnath - PATTANAYAK, Arunava - BANSAL, Kailash C. - BARI, D. Omics-Based Approaches for Rice Improvement. In *OMICS APPLICATIONS IN CROP SCIENCE*, 2014, vol., no., pp. 1., WOS
- [1.1] SINGH, Raksha - JWA, Nam-Soo. Understanding the Responses of Rice to Environmental Stress Using Proteomics. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4652., WOS
- [1.1] SINHA, Ragini - CHATTOPADHYAY, Sharmila. Changes in the leaf Proteome profile of *Mentha arvensis* in response to *Alternaria alternata* infection. In *JOURNAL OF PROTEOMICS*, 2011, vol.74, no.3, 327., WOS
- [1.1] SMITH, Cassandra L. - STAUBER, Jennifer L. - WILSON, Mark R. - JOLLEY, Dianne F. The use of immobilised metal affinity chromatography (IMAC) to compare expression of copper-binding proteins in control and copper-exposed marine microalgae. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2014, vol. 406, no. 1, pp. 305., WOS
- [1.1] VILLIERS, Florent - DUCRUIX, Celine - HUGOUVIEUX, Veronique - JARNO, Nolwenn - EZAN, Eric - GARIN, Jerome - JUNOT, Christophe - BOURGUIGNON, Jacques. Investigating the plant response to cadmium exposure by proteomic and metabolomic approaches. In *PROTEOMICS*, 2011, vol.11, no.9, 1650., WOS
- [1.1] WANG, Yan - WANG, Yi - ZHAO, Yong Bo - CHEN, Dong Mei - HAN, Zhen Hai - ZHANG, Xin Zhong. Protein phosphorylation differs significantly among ontogenetic phases in *Malus* seedlings. In *PROTEOME SCIENCE*. ISSN 1477-5956, 2014, vol. 12, no., pp., WOS
- [1.1] XUE, Dawei - JIANG, Hua - DENG, Xiangxiong - ZHANG, Xiaoqin - WANG, Hua - XU, Xiangbin - HU, Jiang - ZENG, Dali - GUO, Longbiao - QIAN, Qian. Comparative proteomic analysis provides new insights into cadmium accumulation in rice grain under cadmium stress. In *JOURNAL OF HAZARDOUS MATERIALS*. ISSN 0304-3894, 2014, vol. 280, no., pp. 269., WOS
- [1.1] ZENG, Fanrong - WU, Xiaojian - QIU, Boyin - WU, Feibo - JIANG, Lixi - ZHANG, Guoping. Physiological and proteomic alterations in rice (*Oryza*

- sativa L.) seedlings under hexavalent chromium stress. In PLANTA. ISSN 0032-0935, 2014, vol. 240, no. 2, pp. 291., WOS
- [1.1] ZHAO, Le - SUN, Yong-Le - CUI, Su-Xia - CHEN, Mei - YANG, Hao-Meng - LIU, Hui-Min - CHAI, Tuan-Yao - HUANG, Fang. Cd-induced changes in leaf proteome of the hyperaccumulator plant Phytolacca americana. In CHEMOSPHERE, 2011, vol.85, no.1, 56., WOS
- [1.2] YONG, Bin - JIANG, Yusong - FAN, Wenqiao - ZHANG, Yizheng. Effect study of different methods to extract protein from sweet potato tuberous roots. In Chinese Journal of Applied and Environmental Biology. ISSN 1006687X, 2014-04-25, 20, 2, pp. 211-216., SCOPUS
- [3] Nicolardi, Valentina - Cai, Giampiero - Parrotta, Luigi - Puglia, Michele - Bianchi, Laura - Bini, Luca - Gaggi, Carlo. The adaptive response of lichens to mercury exposure involves changes in the photosynthetic machinery. In Environmental Pollution, 2012, vol. 160, p. 1-10.
- [9] Xie, Jin-shui - Shao, Cai-hong - Tang, Xiu-ying - Shi, Qing-hua. Proteomics Analysis of Nutrient Stress Effect on Rice Leaf Senescence at Grain Filling Stage. In Zhongguo Shuidao Kexue, 2011, vol. 25, no. 2, p. 143-149.

ADCA41 HAJDUCH, Martin - CASTEEL, J. E. - HURRELMEYER, K. E. - SONG, Z. - AGRAWAL, G. K. - THELEN, J. J. Proteomic analysis of seed filling in Brassica napus. Developmental characterization of metabolic isozymes using high-resolution two-dimensional gel electrophoresis. In *Plant Physiology*, 2006, vol. 141, no. 1, p. 32-46. (6.114 - IF2005). (2006 - Current Contents).

Ohlasy:

- [1.1] AGRAWAL, Lalit - NARULA, Kanika - BASU, Swaraj - SHEKHAR, Shubhendu - GHOSH, Sudip - DATTA, Asis - CHAKRABORTY, Niranjan - CHAKRABORTY, Subhra. Comparative Proteomics Reveals a Role for Seed Storage Protein AmA1 in Cellular Growth, Development, and Nutrient Accumulation. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4904., WOS
- [1.1] AGUINAGALDE, I. - MASELLI, S. - PEREZ-GARCIA, F. Isozyme systems as markers of genetic deterioration in stored seeds of Brassicaceae species. In SEED SCIENCE AND TECHNOLOGY. ISSN 0251-0952, 2012, vol. 40, no. 3, pp. 365., WOS
- [1.1] BROWN, Adrian P. - KROON, Johan T. M. - TOPPING, Jennifer F. - ROBSON, Joanne L. - SIMON, William J. - SLABAS, Antoni R. Components of Complex Lipid Biosynthetic Pathways in Developing Castor (*Ricinus communis*) Seeds Identified by MudPIT Analysis of Enriched Endoplasmic Reticulum. In JOURNAL OF PROTEOME RESEARCH, 2011, vol.10, no.8, 3565., WOS
- [1.1] DUSSEURT, Stephane - GUERIN, Chloe - ANDERSSON, Mariette - JOET, Thierry - TRANBARGER, Timothy J. - PIZOT, Maxime - SARAH, Gautier - OMORE, Alphonse - DURAND-GASSELIN, Tristan - MORCILLO, Fabienne. Comparative Transcriptome Analysis of Three Oil Palm Fruit and Seed Tissues That Differ in Oil Content and Fatty Acid Composition. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2013, vol. 162, no. 3, pp. 1337., WOS
- [1.1] FAERGESTAD, E. M. - RYE, M. B. - NHEK, S. - HOLLUNG, K. - GROVE, H. The Use of Chemometrics to Analyse Protein Patterns from Gel Electrophoresis. In ACTA CHROMATOGRAPHICA, 2011, vol.23, no.1, 1., WOS
- [1.1] FANG, Xianping - MA, Huasheng - LU, Dezhao - YU, Hong - LAI,

- Wenguo - RUAN, Songlin. Comparative proteomics analysis of proteins expressed in the I-1 and I-2 internodes of strawberry stolons. In PROTEOME SCIENCE, 2011, vol.9, no., WOS
- [1.1] GAN, Lu - ZHANG, Chun-yu - WANG, Xiao-dong - WANG, Hao - LONG, Yan - YIN, Yong-tai - LI, Dian-Rong - TIAN, Jian-Hua - LI, Zai-yun - LIN, Zhi-wei - YU, Long-Jiang - LI, Mao-Teng. Proteomic and Comparative Genomic Analysis of Two Brassica napus Lines Differing in Oil Content. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4965., WOS
- [1.1] HAYDEN, Daniel M. - ROLLETSCHÉK, Hardy - BORISJUK, Ljudmilla - CORWIN, Jason - KLIEBENSTEIN, Daniel J. - GRIMBERG, Asa - STYMNE, Sten - DEHESH, Katayoon. Cofactome analyses reveal enhanced flux of carbon into oil for potential biofuel production. In PLANT JOURNAL, 2011, vol.67, no.6, 1018., WOS
- [1.1] HUANG, Daiqing - KOH, Chushin - FEURTADO, J. Allan - TSANG, Edward W. T. - CUTLER, Adrian J. MicroRNAs and their putative targets in Brassica napus seed maturation. In BMC GENOMICS. ISSN 1471-2164, 2013, vol. 14, no., pp., WOS
- [1.1] HUA, Shuijin - CHEN, Zhong-Hua - ZHANG, Yaofeng - YU, Huasheng - LIN, Baogang - ZHANG, Dongqing. Chlorophyll and carbohydrate metabolism in developing siliques and seeds are prerequisite to seed oil content of Brassica napus L. In BOTANICAL STUDIES. ISSN 1999-3110, 2014, vol. 55, no., pp., WOS
- [1.1] HU, Zhiyong - HUA, Wei - HUANG, Shunmou - YANG, Hongli - ZHAN, Gaomiao - WANG, Xinfang - LIU, Guihua - WANG, Hanzhong. Discovery of Pod Shatter-Resistant Associated SNPs by Deep Sequencing of a Representative Library Followed by Bulk Segregant Analysis in Rapeseed. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 4, pp., WOS
- [1.1] HU, Zhi-Yong - HUA, Wei - HUANG, Shun-Mou - WANG, Han-Zhong. Complete chloroplast genome sequence of rapeseed (*Brassica napus* L.) and its evolutionary implications. In GENETIC RESOURCES AND CROP EVOLUTION, 2011, vol.58, no.6, 875., WOS
- [1.1] CHATTOPADHYAY, Arnab - SUBBA, Pratigya - PANDEY, Aarti - BHUSHAN, Deepti - KUMAR, Rajiv - DATTA, Asis - CHAKRABORTY, Subhra - CHAKRABORTY, Niranjan. Analysis of the grasspea proteome and identification of stress-responsive proteins upon exposure to high salinity, low temperature, and abscisic acid treatment. In PHYTOCHEMISTRY, 2011, vol.72, no.10, 1293., WOS
- [1.1] ISLAM, Shahidul - YAN, Guijun - APPELS, Rudi - MA, Wujun. Comparative proteome analysis of seed storage and allergenic proteins among four narrow-leaved lupin cultivars. In FOOD CHEMISTRY. ISSN 0308-8146, 2012, vol. 135, no. 3, pp. 1230., WOS
- [1.1] JASIK, Jan - SCHIEBOLD, Silke - ROLLETSCHÉK, Hardy - DENOLF, Peter - VAN ADENHOVE, Katrien - ALTMANN, Thomas - BORISJUK, Ljudmilla. Subtissue-Specific Evaluation of Promoter Efficiency by Quantitative Fluorometric Assay in Laser Microdissected Tissues of Rapeseed. In PLANT PHYSIOLOGY, 2011, vol.157, no.2, 563., WOS
- [1.1] JIANG, Huawu - WU, Pingzhi - ZHANG, Sheng - SONG, Chi - CHEN, Yaping - LI, Meiru - JIA, Yongxia - FANG, Xiaohua - CHEN, Fan - WU, Guojiang. Global Analysis of Gene Expression Profiles in Developing

- Physic Nut (*Jatropha curcas* L.) Seeds. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 5, pp., WOS
- [1.1] JIANG, J. - WANG, J. - LI, A. - ZHANG, Y. - SOKOLOV, V. - WANG, Y. Proteomic differences in seed filling between yellow-seeded progeny of *Brassica napus*-*Sinapis alba* (Brassicaceae) and black-seeded parent *B. napus*. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, 2012, vol. 48, no. 4, pp. 396., WOS
- [1.1] JIANG, Yuanzhong - FU, Xialan - WEN, Mengling - WANG, Fei - TANG, Qiao - TIAN, Qiaoyan - LUO, Keming. Overexpression of an nsLTPs-like antimicrobial protein gene (LJAMP2) from motherwort (*Leonurus japonicus*) enhances resistance to *Sclerotinia sclerotiorum* in oilseed rape (*Brassica napus*). In PHYSIOLOGICAL AND MOLECULAR PLANT PATHOLOGY. ISSN 0885-5765, 2013, vol. 82, no., pp. 81., WOS
- [1.1] LIU, Hui - WANG, Cuiping - KOMATSU, Setsuko - HE, Mingxia - LIU, Gongshe - SHEN, Shihua. Proteomic analysis of the seed development in *Jatropha curcas*: From carbon flux to the lipid accumulation. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2013, vol. 91, no., pp. 23., WOS
- [1.1] LI, Wenlan - GAO, Yi - XU, Hong - ZHANG, Yu - WANG, Jianbo. A Proteomic Analysis of Seed Development in *Brassica campestris* L. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 11, pp., WOS
- [1.1] MOREL, Alexandre - TRONTIN, Jean-Francois - CORBINEAU, Francoise - LOMENECH, Anne-Marie - BEAUFOUR, Martine - REYMOND, Isabelle - LE METTE, Claire - ADER, Kevin - HARVENGT, Luc - CADENE, Martine - LABEL, Philippe - TEYSSIER, Caroline - LELU-WALTER, Marie-Anne. Cotyledonary somatic embryos of *Pinus pinaster* Ait. most closely resemble fresh, maturing cotyledonary zygotic embryos: biological, carbohydrate and proteomic analyses. In PLANTA. ISSN 0032-0935, 2014, vol. 240, no. 5, pp. 1075., WOS
- [1.1] NGUYEN, Huu T. - SILVA, Jillian E. - PODICHETI, Ram - MACRANDER, Jason - YANG, Wenyu - NAZARENUS, Tara J. - NAM, Jeong-Won - JAWORSKI, Jan G. - LU, Chaofu - SCHEFFLER, Brian E. - MOCKAITIS, Keithanne - CAHOON, Edgar B. Camelina seed transcriptome: a tool for meal and oil improvement and translational research. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2013, vol. 11, no. 6, pp. 759., WOS
- [1.1] RODE, Christina - GALLIEN, Sebastien - HEINTZ, Dimitri - VAN DORSEL, Alain - BRAUN, Hans-Peter - WINKELMANN, Traud. Enolases: storage compounds in seeds? Evidence from a proteomic comparison of zygotic and somatic embryos of *Cyclamen persicum* Mill. In PLANT MOLECULAR BIOLOGY, 2011, vol.75, no.3, 305., WOS
- [1.1] SANG, Ya Lin - XU, Meng - MA, Fang Fang - CHEN, Hao - XU, Xiao Hui - GAO, Xin-Qi - ZHANG, Xian Sheng. Comparative proteomic analysis reveals similar and distinct features of proteins in dry and wet stigmas. In PROTEOMICS. ISSN 1615-9853, 2012, vol. 12, no. 12, pp. 1983., WOS
- [1.1] SU, R. L. - HU, H. T. - WU, M. - GUO, W. D. - CHEN, J. H. - WANG, C. C. - YANG, L. Isolation and characterisation of a UDP-glucose pyrophosphorylase gene associated with fruit ripening in autumn olive (*Elaeagnus umbellata* Thunb.). In JOURNAL OF HORTICULTURAL SCIENCE & BIOTECHNOLOGY. ISSN 1462-0316, 2013, vol. 88, no. 5, pp. 617., WOS

- [1.1] WANG, Liqun - MA, Hao - SONG, Liru - SHU, Yingjie - GU, Weihong. Comparative proteomics analysis reveals the mechanism of pre-harvest seed deterioration of soybean under high temperature and humidity stress. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2012, vol. 75, no. 7, pp. 2109., WOS
- [1.1] WANG, Wei-Qing - YE, Jian-Qing - ROGOWSKA-WRZESINSKA, Adelina - WOJDYLA, Katarzyna I. - JENSEN, Ole Norregaard - MOLLER, Ian Max - SONG, Song-Quan. Proteomic Comparison between Maturation Drying and Prematurely Imposed Drying of Zea mays Seeds Reveals a Potential Role of Maturation Drying in Preparing Proteins for Seed Germination, Seedling Vigor, and Pathogen Resistance. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2014, vol. 13, no. 2, pp. 606., WOS
- [1.1] WU, Xue-Long - LIU, Zhi-Hong - HU, Zhang-Hua - HUANG, Rui-Zhi. BnWRI1 coordinates fatty acid biosynthesis and photosynthesis pathways during oil accumulation in rapeseed. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY. ISSN 1672-9072, 2014, vol. 56, no. 6, pp. 582., WOS
- [1.1] XU, Hong - ZHANG, Weiping - GAO, Yi - ZHAO, Yong - GUO, Lin - WANG, Jianbo. Proteomic analysis of embryo development in rice (*Oryza sativa*). In PLANTA. ISSN 0032-0935, 2012, vol. 235, no. 4, pp. 687., WOS
- [1.1] YAO, Yinan - SUN, Haiyan - XU, Fangsen - ZHANG, Xuejiang - LIU, Shengyi. Comparative proteome analysis of metabolic changes by low phosphorus stress in two *Brassica napus* genotypes. In PLANTA, 2011, vol. 233, no. 3, 523., WOS
- [1.1] ZI, Jin - ZHANG, Jiyuan - WANG, Quanhui - ZHOU, Baojin - ZHONG, Junyan - ZHANG, Chaoliang - QIU, Xuemei - WEN, Bo - ZHANG, Shenyan - FU, Xiqin - LIN, Liang - LIU, Siqi. Stress Responsive Proteins Are Actively Regulated during Rice (*Oryza sativa*) Embryogenesis as Indicated by Quantitative Proteomics Analysis. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 9, pp., WOS
- [3.1] Miernyk, J. A. In Plant Proteomics: Methods and Protocols, 2nd Edition Vol. 1072 Methods in Molecular Biology (eds J. V. JorrinNovo, S. Komatsu, W. Weckwerth, & S. Wienkoop), p. 361-377 (2014).

ADCA42 HAJDUCH, Martin - CASTEEL, J.E - TANG, S. - HEARNE, L.B - KNAPP, S. - THELEN, J.J. Proteomic analysis of near-isogenic sunflower varieties differing in seed oil traits. In *Journal of Proteome Research.* - Washington : American Chemical Society, 2007, vol. 6, p. 3232-3241. (5.151 - IF2006). (2007 - Current Contents).

Ohlasy:

- [1.1] BARBOSA, Herbert de Sousa - QUIRINO DE SOUZA, Daiane Leticia - FERREIRA KOOLEN, Hector Henrique - GOZZO, Fabio Cesar - ZEZZI ARRUDA, Marco Aurelio. Sample preparation focusing on plant proteomics: extraction, evaluation and identification of proteins from sunflower seeds. In ANALYTICAL METHODS. ISSN 1759-9660, 2013, vol. 5, no. 1, pp. 116., WOS
- [1.1] FULDA, S. - MIKKAT, S. - STEGMANN, H. - HORN, R. Physiology and proteomics of drought stress acclimation in sunflower (*Helianthus annuus* L.). In PLANT BIOLOGY, 2011, vol. 13, no. 4, 632., WOS
- [1.1] GAN, Lu - ZHANG, Chun-yu - WANG, Xiao-dong - WANG, Hao - LONG, Yan - YIN, Yong-tai - LI, Dian-Rong - TIAN, Jian-Hua - LI, Zai-yun -

- LIN, Zhi-wei - YU, Long-Jiang - LI, Mao-Teng. Proteomic and Comparative Genomic Analysis of Two *Brassica napus* Lines Differing in Oil Content. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4965., WOS
- [1.1] HAYDEN, Daniel M. - ROLLETSCHER, Hardy - BORISJUK, Ljudmilla - CORWIN, Jason - KLIEBENSTEIN, Daniel J. - GRIMBERG, Asa - STYMNE, Sten - DEHESH, Katayoon. Cofactome analyses reveal enhanced flux of carbon into oil for potential biofuel production. In PLANT JOURNAL, 2011, vol.67, no.6, 1018., WOS
- [1.1] LOPEZ-RIBERA, Ignacio - LUIS LA PAZ, Jose - REPISO, Carlos - GARCIA, Nora - MIQUEL, Merce - LUISA HERNANDEZ, Maria - MANUEL MARTINEZ-RIVAS, Jose - VICENT, Carlos M. The Evolutionary Conserved Oil Body Associated Protein OBAP1 Participates in the Regulation of Oil Body Size. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 164, no. 3, pp. 1237., WOS
- [1.1] NATARAJAN, Savithiry - LUTHRIA, Devanand - BAE, Hanhong - LAKSHMAN, Dilip - MITRA, Amitava. Transgenic Soybeans and Soybean Protein Analysis: An Overview. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2013, vol. 61, no. 48, pp. 11736., WOS
- [1.1] RODE, Christina - GALLIEN, Sebastien - HEINTZ, Dimitri - VAN DORSSELAER, Alain - BRAUN, Hans-Peter - WINKELMANN, Traud. Enolases: storage compounds in seeds? Evidence from a proteomic comparison of zygotic and somatic embryos of *Cyclamen persicum* Mill. In PLANT MOLECULAR BIOLOGY, 2011, vol.75, no.3, 305., WOS
- [1.1] TEH, Huey Fang - NEOH, Bee Keat - HONG, May Ping Li - LOW, Jaime Yoke Sum - NG, Theresa Lee Mei - ITHNIN, Nalisha - THANG, Yin Mee - MOHAMED, Mohaimi - CHEW, Fook Tim - YUSOF, Hirzun Mohd - KULAVEERASINGAM, Harikrishna - APPLETON, David R. Differential Metabolite Profiles during Fruit Development in High-Yielding Oil Palm Mesocarp. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 4, pp., WOS

ADCA43     HAJDUCH, Martin - HEARNE, L.B. - MIERNYK, J.A. - CASTEEL, J.E. - JOSHI, T. - AGRAWAL, G.K. - SONG, Z. - ZHOU, M. - XU, D. - THELEN, J.J. Systems analysis of seed filling in *Arabidopsis*: using general linear modeling to assess concordance of transcript and protein expression. In *Plant Physiology*, 2010, vol. 152, no. 4, p. 2078-2087. (6.235 - IF2009). (2010 - Current Contents). ISSN 0032-0889.

- Ohlasy:
- [1.1] BALBUENA, Tiago S. - SALAS, Joaquin J. - MARTINEZ-FORCE, Enrique - GARCES, Rafael - THELEN, Jay J. Proteome Analysis of Cold Acclimation in Sunflower. In JOURNAL OF PROTEOME RESEARCH, 2011, vol.10, no.5, 2330., WOS
- [1.1] BARVKAR, Vitthal T. - PARDESHI, Varsha C. - KALE, Sandip M. - KADOO, Narendra Y. - GIRI, Ashok P. - GUPTA, Vidya S. Proteome Profiling of Flax (*Linum usitatissimum*) Seed: Characterization of Functional Metabolic Pathways Operating during Seed Development. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2012, vol. 11, no. 12, pp. 6264., WOS
- [1.1] BOSCHETTI, Egisto - RIGHETTI, Pier Giorgio. Breakfast at Tiffany's? Only with a low-abundance proteomic signature! In ELECTROPHORESIS. ISSN 0173-0835, 2012, vol. 33, no. 15, pp. 2228., WOS

- [1.1] BOSCHETTI, Egisto - RIGHETTI, Pier Giorgio. Plant Proteomics and Food and Beverage Analysis via CPLL Capture. In *LOW-ABUNDANCE PROTEOME DISCOVERY: STATE OF THE ART AND PROTOCOLS*, 2013, vol., no., pp. 159., WOS
- [1.1] BROWN, Adrian P. - KROON, Johan T. M. - TOPPING, Jennifer F. - ROBSON, Joanne L. - SIMON, William J. - SLABAS, Antoni R. Components of Complex Lipid Biosynthetic Pathways in Developing Castor (*Ricinus communis*) Seeds Identified by MudPIT Analysis of Enriched Endoplasmic Reticulum. In *JOURNAL OF PROTEOME RESEARCH*, 2011, vol.10, no.8, 3565., WOS
- [1.1] HAYDEN, Daniel M. - ROLLETSCHER, Hardy - BORISJUK, Ljudmilla - CORWIN, Jason - KLIEBENSTEIN, Daniel J. - GRIMBERG, Asa - STYMNE, Sten - DEHESH, Katayoon. Cofactome analyses reveal enhanced flux of carbon into oil for potential biofuel production. In *PLANT JOURNAL*, 2011, vol.67, no.6, 1018., WOS
- [1.1] HUA, Shuijin - CHEN, Zhong-Hua - ZHANG, Yaofeng - YU, Huasheng - LIN, Baogang - ZHANG, Dongqing. Chlorophyll and carbohydrate metabolism in developing siliques and seeds are prerequisite to seed oil content of *Brassica napus* L. In *BOTANICAL STUDIES*. ISSN 1999-3110, 2014, vol. 55, no., pp., WOS
- [1.1] CHOUDHURY, Swarup Roy - WESTFALL, Corey S. - LABORDE, John P. - BISHT, Naveen C. - JEZ, Joseph M. - PANDEY, Sona. Two Chimeric Regulators of G-protein Signaling (RGS) Proteins Differentially Modulate Soybean Heterotrimeric G-protein Cycle. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2012, vol. 287, no. 21, pp. 17870., WOS
- [1.1] KALANTZAKI, K. D. - BEI, E. S. - GAROFALAKIS, M. - ZERVAKIS, M. - KYRIACOU, E - PROMPONAS - LOIZOU, C - SCHIZAS, CN - PATTICHIS, CS. Biological Interaction Networks Based on Sparse Temporal Expansion of Graphical Models. In *IEEE 12TH INTERNATIONAL CONFERENCE ON BIOINFORMATICS & BIOENGINEERING*, 2012, vol., no., pp. 460., WOS
- [1.1] KARUPPANAPANDIAN, T. - RHEE, S-J. - KIM, E-J. - HAN, B. K. - HOEKENGA, O. A. - LEE, G. P. Proteomic analysis of differentially expressed proteins in the roots of Columbia-0 and Landsberg erecta ecotypes of *Arabidopsis thaliana* in response to aluminum-toxicity. In *CANADIAN JOURNAL OF PLANT SCIENCE*. ISSN 0008-4220, 2012, vol. 92, no. 7, pp. 1267., WOS
- [1.1] LI, Wenlan - GAO, Yi - XU, Hong - ZHANG, Yu - WANG, Jianbo. A Proteomic Analysis of Seed Development in *Brassica campestris* L. In *PLOS ONE*. ISSN 1932-6203, 2012, vol. 7, no. 11, pp., WOS
- [1.1] O'Rourke, Jamie A. - BOLON, Yung-Tsi - BUCCIARELLI, Bruna - VANCE, Carroll P. Legume genomics: understanding biology through DNA and RNA sequencing. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2014, vol. 113, no. 7, pp. 1107., WOS
- [1.1] REN, Yujun - LIU, Yang - CHEN, Hongyu - LI, Gang - ZHANG, Xuelian - ZHAO, Jie. Type 4 metallothionein genes are involved in regulating Zn ion accumulation in late embryo and in controlling early seedling growth in *Arabidopsis*. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2012, vol. 35, no. 4, pp. 770., WOS
- [1.1] ROY, Ansuman - RUSHTON, Paul J. - ROHILA, Jai S. The Potential of Proteomics Technologies for Crop Improvement under Drought Conditions. In *CRITICAL REVIEWS IN PLANT SCIENCES*, 2011, vol.30, no.5, 471., WOS

- [1.1] SANO, Naoto - MASAKI, Shunpei - TANABATA, Takanari - YAMADA, Tetsuya - HIRASAWA, Tadashi - KANEKATSU, Motoki. Proteomic analysis of stress-related proteins in rice seeds during the desiccation phase of grain filling. In *PLANT BIOTECHNOLOGY*. ISSN 1342-4580, 2013, vol. 30, no. 2, pp. 147., WOS
- [1.1] SILVA-SANCHEZ, Cecilia - CHEN, Sixue - ZHU, Ning - LI, Qin-Bao - CHOUREY, Prem S. Proteomic comparison of basal endosperm in maize miniature1 mutant and its wild-type Mn1. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] SREENIVASULU, Nese - WOBUS, Ulrich - MERCHANT, SS. Seed-Development Programs: A Systems Biology-Based Comparison Between Dicots and Monocots. In *ANNUAL REVIEW OF PLANT BIOLOGY*, VOL 64. ISSN 1543-5008, 2013, vol. 64, no., pp. 189., WOS
- [1.1] STASZAK, Aleksandra Maria - PAWLOWSKI, Tomasz Andrzej. Proteomic Analysis of Embryogenesis and the Acquisition of Seed Dormancy in Norway Maple (*Acer platanoides* L.). In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2014, vol. 15, no. 6, pp. 10868., WOS
- [1.1] STITT, Mark. Systems-integration of plant metabolism: means, motive and opportunity. In *CURRENT OPINION IN PLANT BIOLOGY*. ISSN 1369-5266, 2013, vol. 16, no. 3, pp. 381., WOS
- [1.1] VANDERSCHUREN, Herve - LENTZ, Ezequiel - ZAINUDDIN, Ima - GRUISEM, Wilhelm. Proteomics of model and crop plant species: Status, current limitations and strategic advances for crop improvement. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2013, vol. 93, no., pp. 5., WOS
- [1.1] WALKER, Elsbeth L. - WATERS, Brian M. The role of transition metal homeostasis in plant seed development. In *CURRENT OPINION IN PLANT BIOLOGY*, 2011, vol.14, no.3, 318., WOS
- [1.1] WANG, Liqun - MA, Hao - SONG, Liru - SHU, Yingjie - GU, Weihong. Comparative proteomics analysis reveals the mechanism of pre-harvest seed deterioration of soybean under high temperature and humidity stress. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2012, vol. 75, no. 7, pp. 2109., WOS
- [1.1] ZHAO, Fu'an - FANG, Weiping - XIE, Deyi - ZHAO, Yuanming - TANG, Zhongjie - LI, Wu - NIE, Lihong - LV, Shuping. Proteomic identification of differentially expressed proteins in *Gossypium thurberi* inoculated with cotton *Verticillium dahliae*. In *PLANT SCIENCE*. ISSN 0168-9452, 2012, vol. 185, no., pp. 176., WOS

ADCA44     HOUSTON, Jean - HAJDUCH, Martin - THELEN, Jay J. Quantitative Proteomics of Seed Filling in Castor: Comparison with Soybean and Rapeseed Reveals Differences between Photosynthetic and Nonphotosynthetic Seed Metabolism. In *Plant Physiology*, 2009, vol. 151, no. 2, p. 857-868. (6.110 - IF2008). ISSN 0032-0889.

Ohlasy:

- [1.1] AGRAWAL, Ganesh Kumar - RAKWAL, Randeep. Rice proteomics: A move toward expanded proteome coverage to comparative and functional proteomics uncovers the mysteries of rice and plant biology. In *PROTEOMICS*, 2011, vol.11, no.9, 1630., WOS
- [1.1] BARVKAR, Vitthal T. - PARDESHI, Varsha C. - KALE, Sandip M. -

- KADOO, Narendra Y. - GIRI, Ashok P. - GUPTA, Vidya S. Proteome Profiling of Flax (*Linum usitatissimum*) Seed: Characterization of Functional Metabolic Pathways Operating during Seed Development. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2012, vol. 11, no. 12, pp. 6264., WOS
- [1.1] BROWN, Adrian P. - KROON, Johan T. M. - TOPPING, Jennifer F. - ROBSON, Joanne L. - SIMON, William J. - SLABAS, Antoni R. Components of Complex Lipid Biosynthetic Pathways in Developing Castor (*Ricinus communis*) Seeds Identified by MudPIT Analysis of Enriched Endoplasmic Reticulum. In JOURNAL OF PROTEOME RESEARCH, 2011, vol.10, no.8, 3565., WOS
- [1.1] DUSSEURT, Stephane - GUERIN, Chloe - ANDERSSON, Mariette - JOET, Thierry - TRANBARGER, Timothy J. - PIZOT, Maxime - SARAH, Gautier - OMORE, Alphonse - DURAND-GASSELIN, Tristan - MORCILLO, Fabienne. Comparative Transcriptome Analysis of Three Oil Palm Fruit and Seed Tissues That Differ in Oil Content and Fatty Acid Composition. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2013, vol. 162, no. 3, pp. 1337., WOS
- [1.1] FEDOSEJEVS, Eric T. - YING, Sheng - PARK, Joonho - ANDERSON, Erin M. - MULLEN, Robert T. - SHE, Yi-Min - PLAXTON, William C. Biochemical and Molecular Characterization of RcSUS1, a Cytosolic Sucrose Synthase Phosphorylated in Vivo at Serine 11 in Developing Castor Oil Seeds. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2014, vol. 289, no. 48, pp. 33412., WOS
- [1.1] GAN, Lu - ZHANG, Chun-yu - WANG, Xiao-dong - WANG, Hao - LONG, Yan - YIN, Yong-tai - LI, Dian-Rong - TIAN, Jian-Hua - LI, Zai-yun - LIN, Zhi-wei - YU, Long-Jiang - LI, Mao-Teng. Proteomic and Comparative Genomic Analysis of Two *Brassica napus* Lines Differing in Oil Content. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4965., WOS
- [1.1] HUA, Shuijin - CHEN, Zhong-Hua - ZHANG, Yaofeng - YU, Huasheng - LIN, Baogang - ZHANG, Dongqing. Chlorophyll and carbohydrate metabolism in developing siliques and seeds are prerequisite to seed oil content of *Brassica napus* L. In BOTANICAL STUDIES. ISSN 1999-3110, 2014, vol. 55, no., pp., WOS
- [1.1] CHANDRASEKARAN, Umashankar - XU, Wei - LIU, Aizhong. Transcriptome profiling identifies ABA mediated regulatory changes towards storage filling in developing seeds of castor bean (*Ricinus communis* L.). In CELL AND BIOSCIENCE. ISSN 2045-3701, 2014, vol. 4, no., pp., WOS
- [1.1] JIANG, Huawu - WU, Pingzhi - ZHANG, Sheng - SONG, Chi - CHEN, Yaping - LI, Meiru - JIA, Yongxia - FANG, Xiaohua - CHEN, Fan - WU, Guojiang. Global Analysis of Gene Expression Profiles in Developing Physic Nut (*Jatropha curcas* L.) Seeds. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 5, pp., WOS
- [1.1] LIU, Hui - WANG, Cuiping - KOMATSU, Setsuko - HE, Mingxia - LIU, Gongshe - SHEN, Shihua. Proteomic analysis of the seed development in *Jatropha curcas*: From carbon flux to the lipid accumulation. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2013, vol. 91, no., pp. 23., WOS
- [1.1] LI, Wenlan - GAO, Yi - XU, Hong - ZHANG, Yu - WANG, Jianbo. A Proteomic Analysis of Seed Development in *Brassica campestris* L. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 11, pp., WOS
- [1.1] LI, Zhilan - JIANG, Yuxiao - HUA, Shuijin - REN, Yun - JIANG, Chiyu - ZHOU, Longhua - CHEN, Xiaoyang - JIANG, Lixi. Characterization of

- seed fatty acid accumulation in DELLA mutant lines of *Arabidopsis*. In PLANT GROWTH REGULATION. ISSN 0167-6903, 2013, vol. 70, no. 1, pp. 27., WOS
- [1.1] LOSS-MORAIS, Guilherme - TURCHETTO-ZOLET, Andreia Carina - ETGES, Matheus - CAGLIARI, Alexandro - KOERBES, Ana Paula - MARASCHIN, Felipe dos Santos - MARGIS-PINHEIRO, Marcia - MARGIS, Rogerio. Analysis of castor bean ribosome-inactivating proteins and their gene expression during seed development. In GENETICS AND MOLECULAR BIOLOGY. ISSN 1415-4757, 2013, vol. 36, no. 1, pp. 74., WOS
- [1.1] NOGUEIRA, Fabio C. S. - PALMISANO, Giuseppe - SOARES, Emanoella L. - SHAH, Mohibullah - SOARES, Arlete A. - ROEPSTORFF, Peter - CAMPOS, Francisco A. P. - DOMONT, Gilberto B. Proteomic profile of the nucellus of castor bean (*Ricinus communis* L.) seeds during development. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2012, vol. 75, no. 6, pp. 1933., WOS
- [1.1] NOGUEIRA, Fabio C. S. - PALMISANO, Giuseppe - SCHWAMMLE, Veit - SOARES, Emanuela L. - SOARES, Arlete A. - ROEPSTORFF, Peter - DOMONT, Gilberto B. - CAMPOS, Francisco A. P. Isotope Labeling-Based Quantitative Proteomics of Developing Seeds of Castor Oil Seed (*Ricinus communis* L.). In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 5012., WOS
- [1.1] O'LEARY, Brendan - PARK, Joonho - PLAXTON, William C. The remarkable diversity of plant PEPC (phosphoenolpyruvate carboxylase): recent insights into the physiological functions and post-translational controls of non-photosynthetic PEPCs. In BIOCHEMICAL JOURNAL, 2011, vol. 436, no., 15., WOS
- [1.1] PARK, Joonho - KHUU, Nicholas - HOWARD, Alexander S. M. - MULLEN, Robert T. - PLAXTON, William C. Bacterial- and plant-type phosphoenolpyruvate carboxylase isozymes from developing castor oil seeds interact in vivo and associate with the surface of mitochondria. In PLANT JOURNAL. ISSN 0960-7412, 2012, vol. 71, no. 2, pp. 251., WOS
- [1.1] TASLEEM-TAHIR, Ayesha - NADAUD, Isabelle - CHAMBON, Christophe - BRANLARD, Gerard. Expression Profiling of Starchy Endosperm Metabolic Proteins at 21 Stages of Wheat Grain Development. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2012, vol. 11, no. 5, pp. 2754., WOS
- [1.1] TRONCOSO-PONCE, Manuel A. - KILARU, Aruna - CAO, Xia - DURRETT, Timothy P. - FAN, Jilian - JENSEN, Jacob K. - THROWER, Nick A. - PAULY, Markus - WILKERSON, Curtis - OHLROGGE, John B. Comparative deep transcriptional profiling of four developing oilseeds. In PLANT JOURNAL, 2011, vol. 68, no. 6, 1014., WOS
- [1.1] TRONCOSO-PONCE, M. A. - RIVOAL, J. - VENEGAS-CALERON, M. - DORION, S. - SANCHEZ, R. - CEJUDO, F. J. - GARCES, R. - MARTINEZ-FORCE, E. Molecular cloning and biochemical characterization of three phosphoglycerate kinase isoforms from developing sunflower (*Helianthus annuus* L.) seeds. In PHYTOCHEMISTRY. ISSN 0031-9422, 2012, vol. 79, no., pp. 27., WOS
- [1.1] WANG, Xiao - VIGNJEVIC, Marija - JIANG, Dong - JACOBSEN, Susanne - WOLLENWEBER, Bernd. Improved tolerance to drought stress after anthesis due to priming before anthesis in wheat (*Triticum aestivum* L.) var. Vinjett. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2014,

- vol. 65, no. 22, pp. 6441., WOS
- [1.1] ZI, Jin - ZHANG, Jiyuan - WANG, Quanhui - LIN, Liang - TONG, Wei - BAI, Xue - ZHAO, Jingjing - CHEN, Zhen - FU, Xiqin - LIU, Siqi. Proteomics study of rice embryogenesis: Discovery of the embryogenesis-dependent globulins. In ELECTROPHORESIS. ISSN 0173-0835, 2012, vol. 33, no. 7, pp. 1129., WOS
- [1.1] ZI, Jin - ZHANG, Jiyuan - WANG, Quanhui - ZHOU, Baojin - ZHONG, Junyan - ZHANG, Chaoliang - QIU, Xuemei - WEN, Bo - ZHANG, Shenyang - FU, Xiqin - LIN, Liang - LIU, Siqi. Stress Responsive Proteins Are Actively Regulated during Rice (*Oryza sativa*) Embryogenesis as Indicated by Quantitative Proteomics Analysis. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 9, pp., WOS

ADCA45 HRICOVÁ, Andrea - KEČKEŠOVÁ, Monika - GÁLOVÁ, Zdenka - LIBIAKOVÁ, Gabriela - GAJDOŠOVÁ, Alena. Investigation of protein profile changes in amaranth seeds after radiation mutagenesis = Skúmanie zmien profilu bielkovín v semenách láskavca podrobenných radiačnej mutagenéze. In *Chemické listy*, 2011, vol. 105, no. 7, p. 542-545. (0.620 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Ohlasy:

- [1.1] SLUGINA, M. A. - MINHO, K. Torres - FILYUSHIN, M. A. Analysis of the sequences of internal transcribed spacers ITS1, ITS2 and the 5.8S ribosomal gene of species of the Amaranthus genus. In BIOLOGY BULLETIN. ISSN 1062-3590, 2014, vol. 41, no. 6, pp. 554., WOS
- [1.1] STEFUNOVA, V. - BEZO, M. - LABAJOVA, M. - SENKOVA, S. Genetic analysis of three Amaranth species using ISSR markers. In EMIRATES JOURNAL OF FOOD AND AGRICULTURE. ISSN 2079-052X, 2014, vol. 26, no. 1, pp. 35., WOS
- [1.1] ZIAROVSKA, J. - RAZNA, K. - LABAJOVA, M. Using of Inter Microsatellite Polymorphism to evaluate gamma-irradiated Amaranth mutants. In EMIRATES JOURNAL OF FOOD AND AGRICULTURE. ISSN 2079-052X, 2013, vol. 25, no. 9, pp. 673., WOS
- [1.2] LABAJOVÁ, Mária - ŽIAROVSKÁ, Jana - RAŽNÁ, Katarína - LANCIKOVA, V. Restriction analyze of starch synthesis genes in amaranth mutant lines. In Pakistan Journal of Biological Sciences. ISSN 10288880, 2013-11-22, 17, 1, pp. 68-73., SCOPUS
- [3] Ražná, K. - Žiarovská, J. - Labajová M. Genome changes in mutant lines of Amaranthus as detected by microsatelite-directed PCR. In: ARPN JOURNAL OF AGRICULTURAL AND BIOLOGICAL SCIENCE, 2012, vol. 7, no.1, p. 877-884.
- [4] LABAJOVÁ, MÁRIA – SENKOVÁ, SLAVOMÍRA - ŽIAROVSKÁ, JANA – RAŽNÁ, KATARÍNA – BEŽO, MILAN – ŠTEFÚNOVÁ, VERONIKA – ZELEŇÁKOVÁ, LUCIA. The potential of ISSR markers in amaranth gamma-radiance mutants genotyping. In Journal of Microbiology, Biotechnology and Food Sciences, 2011: 1 (4), p. 507-521.

ADCA46 HŘIB, Jiří - VOOKOVÁ, Božena - KORMUTÁK, Andrej. Biochemical differences between normal callus and embryogenic suspensor mass of silver fir. In *Biologia Plantarum*, 1997, vol.39, no. 4, p.507-513. (1997 - Current Contents). ISSN 0006-3134.

Ohlasy:

- [1.1] HAZUBSKA-PRZYBYL, Teresa - RATAJCZAK, Ewelina - KALEMBA, Ewa Marzena - BOJARCZUK, Krystyna. Growth regulators and guaiacol peroxidase activity during the induction phase of somatic embryogenesis in *Picea* species. In *DENDROBIOLOGY*. ISSN 1641-1307, 2013, vol. 69, no., pp. 77., WOS

ADCA47 HUTVAGNER, G. - MLYNÁROVÁ, Ľudmila - NAP, J.P. Detailed characterization of the posttranscriptional gene-silencing-related small RNA in a GUS gene-silenced tobacco. In *RNA* Vol.6,no. 10 (2000), p. 1445-1454. ISSN 1355-8382.

Ohlasy:

- [1.1] DE FATIMA ROSAS-CARDENAS, Flor - DURAN-FIGUEROA, Noe - VIELLE-CALZADA, Jean-Philippe - CRUZ-HERNANDEZ, Andres - MARSCH-MARTINEZ, Nayelli - DE FOLTER, Stefan. A simple and efficient method for isolating small RNAs from different plant species. In *PLANT METHODS*, 2011, vol.7, no., WOS

[1.1] PARK, Hyang-Mi - CHOI, Man-Soo - KWAK, Do-Yeon - LEE, Bong-Choon - LEE, Jong-Hee - KIM, Myeong-Ki - KIM, Yeon-Gyu - SHIN, Dong-Bum - PARK, Soon-Ki - KIM, Yul-Ho. Suppression of NS3 and MP is important for the stable inheritance of RNAi-mediated Rice Stripe Virus (RSV) resistance obtained by targeting the fully complementary RSV-CP gene. In *MOLECULES AND CELLS*. ISSN 1016-8478, 2012, vol. 33, no. 1, pp. 43., WOS

[1.1] ROTA, Rossella - CIARAPICA, Roberta - GIORDANO, Antonio - MIELE, Lucio - LOCATELLI, Franco. MicroRNAs in rhabdomyosarcoma: pathogenetic implications and translational potentiality. In *MOLECULAR CANCER*, 2011, vol.10, no., WOS

[1.1] TREJO-SAAVEDRA, D. L. - GARCIA-NERIA, M. A. - RIVERA-BUSTAMANTE, R. F. Benzothiadiazole (BTH) induces resistance to Pepper golden mosaic virus (PepGMV) in pepper (*Capsicum annuum* L.). In *BIOLOGICAL RESEARCH*. ISSN 0716-9760, 2013, vol. 46, no. 4, pp. 333., WOS

[1.1] VERMA, Vidhu - SHARMA, Shweta - DEVI, S. Vimla - RAJASUBRAMANIAM, S. - DASGUPTA, Indranil. Delay in virus accumulation and low virus transmission from transgenic rice plants expressing Rice tungro spherical virus RNA. In *VIRUS GENES*. ISSN 0920-8569, 2012, vol. 45, no. 2, pp. 350., WOS

ADCA48 CHEN, Kung-Min - WU, Guo-Li - WANG, Yu-Hua - TIAN, Cui-Ting - ŠAMAJ, Jozef - BALUŠKA, František - LIN, Jinxing. The block of intracellular calcium release affects the pollen tube development of *Picea wilsonii* by changing the deposition of cell wall components. In *Protoplasma*, 2008, vol. 233, no. 1-2, p. 39-49. (1.493 - IF2007). (2008 - Current Contents, SCOPUS, BIOSIS, SciSearch, AGRICOLA). ISSN 0033-183X.

Ohlasy:

- [1.1] LAMPORI, Derek T. A. - VARNAI, Peter - SEAL, Charlotte E. Back to the future with the AGP-Ca<sup>2+</sup> flux capacitor. In *Annals of Botany*, 2014, vol. 114, no. 6, pp. 1069. ISSN 0305-7364., WOS

[1.1] LARGO-GOSENS, Asier - HERNANDEZ-ALTAMIRANO, Mabel -

- GARCIA-CALVO, Laura - ALONSO-SIMON, Ana - ALVAREZ, Jesus - ACEBES, Jose L. Fourier transform mid infrared spectroscopy applications for monitoring the structural plasticity of plant cell walls. In *Frontiers in Plant Science*, 2014, vol. 5. ISSN 1664-462X., WOS
- [1.1] LAZZARO, Mark D. - MAROM, Eric Y. - REDDY, Anireddy S. N. Polarized cell growth, organelle motility, and cytoskeletal organization in conifer pollen tube tips are regulated by KCBP, the calmodulin-binding kinesin. In *Planta*, 2013, vol. 238, no. 3, pp. 587. ISSN 0032-0935., WOS
- [1.1] LIN, Sue - DONG, Heng - ZHANG, Fang - QIU, Lin - WANG, Fangzhan - CAO, Jiashu - HUANG, Li. BcMF8, a putative arabinogalactan protein-encoding gene, contributes to pollen wall development, aperture formation and pollen tube growth in *Brassica campestris*. In *Annals of Botany*, 2014, vol. 113, no. 5, pp. 777. ISSN 0305-7364., WOS
- [1.1] LOMBARDI, M. C. - LAMATTINA, L. Nitric oxide is essential for vesicle formation and trafficking in *Arabidopsis* root hairgrowth. In *Journal of Experimental Botany*, 2012, vol. 63, no. 13, 4875., WOS
- [1.1] NGUEMA-ONA, Eric - COIMBRA, Silvia - VICRE-GIBOUIN, Maite - MOLLET, Jean-Claude - DRIOUICH, Azeddine. Arabinogalactan proteins in root and pollen-tube cells: distribution and functional aspects. In *Annals of Botany*, 2012, vol. 110, no. 2, 383., WOS
- [1.1] RAFINSKA, Katarzyna - SWIDZINSKI, Michal - BEDNARSKA-KOZAKIEWICZ, Elzbieta. Homogalacturonan deesterification during pollen-ovule interaction in *Larix decidua* Mill.: an immunocytochemical study. In *Planta*, 2014, vol. 240, no. 1, pp. 195. ISSN 0032-0935., WOS

ADCA49 CHEN, Mingjie - MOONEY, Brian P. - HAJDUCH, Martin - JOSHI, Trupti - ZHOU, Mingyi - XU, Dong - THELEN, Jay J. System Analysis of an *Arabidopsis* Mutant Altered in de Novo Fatty Acid Synthesis Reveals Diverse Changes in Seed Composition and Metabolism. In *Plant Physiology*, 2009, vol. 150, no. 1, p. 27-41. (6.110 - IF2008). ISSN 0032-0889.

Ohlasy:

- [1.1] BARVKAR, Vitthal T. - PARDESHI, Varsha C. - KALE, Sandip M. - KADOO, Narendra Y. - GIRI, Ashok P. - GUPTA, Vidya S. Proteome Profiling of Flax (*Linum usitatissimum*) Seed: Characterization of Functional Metabolic Pathways Operating during Seed Development. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2012, vol. 11, no. 12, pp. 6264., WOS
- [1.1] BORISJUK, Ljudmilla - NEUBERGER, Thomas - SCHWENDER, Jorg - HEINZEL, Nicolas - SUNDERHAUS, Stephanie - FUCHS, Johannes - HAY, Jordan O. - TSCHIERSCH, Henning - BRAUN, Hans-Peter - DENOLF, Peter - LAMBERT, Bart - JAKOB, Peter M. - ROLLETSCHEK, Hardy. Seed Architecture Shapes Embryo Metabolism in Oilseed Rape. In *PLANT CELL*. ISSN 1040-4651, 2013, vol. 25, no. 5, pp. 1625., WOS
- [1.1] EYCKMANS, Marleen - BENOOT, Donald - VAN RAEMDONCK, Geert A. A. - ZEGELS, Geert - VAN OSTADE, Xaveer W. M. - WITTERS, Erwin - BLUST, Ronny - DE BOECK, Gudrun. Comparative proteomics of copper exposure and toxicity in rainbow trout, common carp and gibel carp. In *COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY D-GENOMICS & PROTEOMICS*. ISSN 1744-117X, 2012, vol. 7, no. 2, pp. 220., WOS
- [1.1] HAN, Chao - HE, Dongli - LI, Ming - YANG, Pingfang. In-Depth Proteomic Analysis of Rice Embryo Reveals its Important Roles in Seed

- Germination. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2014, vol. 55, no. 10, pp. 1826., WOS
- [1.1] HE, Dongli - HAN, Chao - YAO, Jialing - SHEN, Shihua - YANG, Pingfang. Constructing the metabolic and regulatory pathways in germinating rice seeds through proteomic approach. In PROTEOMICS, 2011, vol.11, no.13, 2693., WOS
- [1.1] HUA, Shuijin - CHEN, Zhong-Hua - ZHANG, Yaofeng - YU, Huasheng - LIN, Baogang - ZHANG, Dongqing. Chlorophyll and carbohydrate metabolism in developing siliques and seed are prerequisite to seed oil content of Brassica napus L. In BOTANICAL STUDIES. ISSN 1999-3110, 2014, vol. 55, no., pp., WOS
- [1.1] LI, Xu - ILARSLAN, Hilal - BRACHOVA, Libuse - QIAN, Hui-Rong - LI, Ling - CHE, Ping - WURTELE, Eve Syrkin - NIKOLAU, Basil J. Reverse-Genetic Analysis of the Two Biotin-Containing Subunit Genes of the Heteromeric Acetyl-Coenzyme A Carboxylase in Arabidopsis Indicates a Unidirectional Functional Redundancy. In PLANT PHYSIOLOGY, 2011, vol.155, no.1, 293., WOS
- [1.1] PETERSEN, Jorgen - ROGOWSKA-WRZESINSKA, Adelina - JENSEN, Ole N. Functional proteomics of barley and barley chloroplasts strategies, methods and perspectives. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] SHI, Lin - KATAVIC, Vesna - YU, Yuanyuan - KUNST, Ljerka - HAUGHN, George. Arabidopsis glabra2 mutant seeds deficient in mucilage biosynthesis produce more oil. In PLANT JOURNAL. ISSN 0960-7412, 2012, vol. 69, no. 1, pp. 37., WOS
- [1.1] SILUE, Souleymane - JACQUEMIN, Jean-Marie - BAUDOIN, Jean-Pierre. Use of induced mutations in embryogenesis study in bean Phaseolus vulgaris L. and two model plants, Arabidopsis thaliana (L.) Heynh. and Zea mays L. In BIOTECHNOLOGIE AGRONOMIE SOCIETE ET ENVIRONNEMENT, 2011, vol.15, no.1, 195., WOS
- [1.1] SREENIVASULU, Nese - WOBUS, Ulrich - MERCHANT, SS. Seed-Development Programs: A Systems Biology-Based Comparison Between Dicots and Monocots. In ANNUAL REVIEW OF PLANT BIOLOGY, VOL 64. ISSN 1543-5008, 2013, vol. 64, no., pp. 189., WOS
- [1.1] VAN WIJK, Klaas J. - BAGINSKY, Sacha. Plastid Proteomics in Higher Plants: Current State and Future Goals. In PLANT PHYSIOLOGY, 2011, vol.155, no.4, 1578., WOS
- [1.1] YIN, Dongmei - WANG, Yun - ZHANG, Xingguo - LI, Hemin - LU, Xiang - ZHANG, Jinsong - ZHANG, Wanke - CHEN, Shouyi. De Novo Assembly of the Peanut (Arachis hypogaea L.) Seed Transcriptome Revealed Candidate Unigenes for Oil Accumulation Pathways. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 9, pp., WOS

ADCA50 CHEN, T. - WU, X. - CHEN, Y. - LI, X. - HUANG, M. - ZHENG, M.Z. - BALUŠKA, František - ŠAMAJ, Jozef - LIN, J.X. Combined Proteomic and Cytological Analysis of Ca<sup>2+</sup>-Calmodulin Regulation in *Picea meyeri* Pollen Tube Growth. In *Plant Physiology*, 2009, vol. 149, no. 2, p.1111-1126. (6.110 - IF2008). ISSN 0032-0889.

Ohlasy:

- [1.1] ABRIL, Nieves - GION, Jean-Marc - KERNER, Rene -

- MUELLER-STARCK, Gerhard - NAVARRO CERRILLO, Rafael M. - PLOMION, Christophe - RENAUT, Jenny - VALLEDOR, Luis - JORRIN-NOVO, Jesus V. Proteomics research on forest trees, the most recalcitrant and orphan plant species. In *PHYTOCHEMISTRY*, 2011, vol.72, no.10, 1219-1242., WOS
- [1.1] BI, Ying-Dong - WEI, Zhi-Gang - SHEN, Zhuo - LU, Tian-Cong - CHENG, Yu-Xiang - WANG, Bai-Chen - YANG, Chuan-Ping. Comparative temporal analyses of the *Pinus sylvestris* L. var. *mongolica* litv. apical bud proteome from dormancy to growth. In *MOLECULAR BIOLOGY REPORTS*, 2011, vol.38, no.2, 721-729., WOS
- [1.1] CORPAS, Francisco J. - BARROSO, Juan B. Peroxisomal plant nitric oxide synthase (NOS) protein is imported by peroxisomal targeting signal type 2 (PTS2) in a process that depends on the cytosolic receptor PEX7 and calmodulin. In *FEBS LETTERS*. ISSN 0014-5793, 2014, vol. 588, no. 12, pp. 2049., WOS
- [1.1] DAI, Shaojun - CHEN, Sixue. Single-cell-type Proteomics: Toward a Holistic Understanding of Plant Function. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2012, vol. 11, no. 12, pp. 1622., WOS
- [1.1] ISCHEBECK, Till - VALLEDOR, Luis - LYON, David - GINGL, Stephanie - NAGLER, Matthias - MEIJON, Monica - EGELHOFER, Volker - WECKWERTH, Wolfram. Comprehensive Cell-specific Protein Analysis in Early and Late Pollen Development from Diploid Microsporocytes to Pollen Tube Growth. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2014, vol. 13, no. 1, pp. 295., WOS
- [1.1] LAZZARO, Mark D. - MAROM, Eric Y. - REDDY, Anireddy S. N. Polarized cell growth, organelle motility, and cytoskeletal organization in conifer pollen tube tips are regulated by KCBP, the calmodulin-binding kinesin. In *PLANTA*. ISSN 0032-0935, 2013, vol. 238, no. 3, pp. 587., WOS
- [1.1] RAFINSKA, Katarzyna - SWIDZINSKI, Michal - BEDNARSKA-KOZAKIEWICZ, Elzbieta. Homogalacturonan deesterification during pollen-ovule interaction in *Larix decidua* Mill.: an immunocytochemical study. In *PLANTA*. ISSN 0032-0935, 2014, vol. 240, no. 1, pp. 195., WOS
- [1.1] TANG, Wenxin - TU, Lili - YANG, Xiyan - TAN, Jiafu - DENG, Fenglin - HAO, Juan - GUO, Kai - LINDSEY, Keith - ZHANG, Xianlong. The calcium sensor GhCaM7 promotes cotton fiber elongation by modulating reactive oxygen species (ROS) production. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2014, vol. 202, no. 2, pp. 509., WOS
- [1.1] YU, Guang-Hui - ZOU, Jie - FENG, Jing - PENG, Xiong-Bo - WU, Ju-You - WU, Ying-Liang - PALANIVELU, Ravishankar - SUN, Meng-Xiang. Exogenous gamma-aminobutyric acid (GABA) affects pollen tube growth via modulating putative Ca<sup>2+</sup>-permeable membrane channels and is coupled to negative regulation on glutamate decarboxylase. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2014, vol. 65, no. 12, pp. 3235., WOS

ADCA51 CHEN, T. - TENG, N. - WU, X. - WANG, Y. - TANG, W. - ŠAMAJ, Jozef - BALUŠKA, František - LIN, Jinxing. Disruption of actin filaments by latrunculin b affects cell wall construction in *Picea meyeri* pollen tube by disturbing vesicle trafficking. In *Plant and Cell Physiology : international journal for Physiology*,

*Biochemistry, Molecular Biology*, 2007, vol. 48, no. 1, p. 19-30. (2007 - Current Contents). ISSN 0032-0781.

Ohlasy:

- [1.1] FAN, Jun-Ling - WEI, Xue-Zhi - WAN, Li-Chuan - ZHANG, Ling-Yun - ZHAO, Xue-Qin - LIU, Wei-Zhong - HAO, Huai-Qin - ZHANG, Hai-Yan. Disarrangement of actin filaments and Ca<sup>2+</sup> gradient by CdCl<sub>2</sub> alters cell wall construction in *Arabidopsis thaliana* root hairs by inhibiting vesicular trafficking. In *JOURNAL OF PLANT PHYSIOLOGY*, 2011, vol.168, no.11, 1157-1167., WOS
- [1.1] FURT, Fabienne - LIU, Yen-Chun - BIBEAU, Jeffrey P. - TUEZEL, Erkan - VIDALI, Luis. Apical myosin XI anticipates F-actin during polarized growth of *Physcomitrella patens* cells. In *Plant Journal*, 2013, vol. 73, no. 3, pp. 417. ISSN 0960-7412., WOS
- [1.1] GONG, Si-Ying - HUANG, Geng-Qing - SUN, Xiang - QIN, Li-Xia - LI, Yang - ZHOU, Li - LI, Xue-Bao. Cotton KNL1, encoding a class II KNOX transcription factor, is involved in regulation of fibre development. In *Journal of Experimental Botany*, 2014, vol. 65, no. 15, pp. 4133. ISSN 0022-0957., WOS
- [1.1] CHEBLI, Youssef - KROEGER, Jens - GEITMANN, Anja. Transport Logistics in Pollen Tubes. In *Molecular Plant*, 2013, vol. 6, no. 4, pp. 1037. ISSN 1674-2052., WOS
- [1.1] LARGO-GOSENS, Asier - HERNANDEZ-ALTAMIRANO, Mabel - GARCIA-CALVO, Laura - ALONSO-SIMON, Ana - ALVAREZ, Jesus - ACEBES, Jose L. Fourier transform mid infrared spectroscopy applications for monitoring the structural plasticity of plant cell walls. In *Frontiers in Plant Science*, 2014, vol. 5. ISSN 1664-462X., WOS
- [1.1] LAZZARO, Mark D. - MAROM, Eric Y. - REDDY, Anireddy S. N. Polarized cell growth, organelle motility, and cytoskeletal organization in conifer pollen tube tips are regulated by KCBP, the calmodulin-binding kinesin. In *Planta*, 2013, vol. 238, no. 3, pp. 587. ISSN 0032-0935., WOS
- [1.1] NGUEMA-ONA, Eric - COIMBRA, Silvia - VICRE-GIBOUI, Maite - MOLLET, Jean-Claude - DRIOUICH, Azeddine. Arabinogalactan proteins in root and pollen-tube cells: distribution and functional aspects. In *ANNALS OF BOTANY*, 2012, vol.110, no.2, 383., WOS
- [1.1] NGUEMA-ONA, Eric - COIMBRA, Silvia - VICRE-GIBOUI, Maite - MOLLET, Jean-Claude - DRIOUICH, Azeddine. Arabinogalactan proteins in root and pollen-tube cells: distribution and functional aspects. In *Annals of Botany*, 2012, vol. 110, no. 2, pp. 383. ISSN 0305-7364., WOS
- [1.1] ROLDAN, Juan A. - ROJAS, Hernan J. - GOLDRAIJ, Ariel. Disorganization of F-actin cytoskeleton precedes vacuolar disruption in pollen tubes during the *in vivo* self-incompatibility response in *Nicotiana alata*. In *Annals of Botany*, 2012, vol.110, no.4, 787., WOS
- [1.1] SAMPATHKUMAR, Arun - GUTIERREZ, Ryan - MCFARLANE, Heather E. - BRINGMANN, Martin - LINDEBOOM, Jelmer - EMONS, Anne-Mie - SAMUELS, Lacey - KETELAAR, Tijs - EHRHARDT, David W. - PERSSON, Staffan. Patterning and Lifetime of Plasma Membrane-Localized Cellulose Synthase Is Dependent on Actin Organization in *Arabidopsis* Interphase Cells. In *Plant Physiology*, 2013, vol. 162, no. 2, pp. 675. ISSN 0032-0889., WOS
- [1.1] SHEEHAN, Moira J. - PAWLOWSKI, Wojciech P. - CONN, PM. IMAGING CHROMOSOME DYNAMICS IN MEIOSIS IN PLANTS. In

- Methods in Enzymology, vol. 505: Imaging and Spectroscopic Analysis of Living Cells, 2012, vol.505, no. 125., WOS
- [1.1] SHENG, Xianyong - ZHANG, Shasha - JIANG, Liping - LI, Kai - GAO, Yuan - LI, Xue. Lead Stress Disrupts the Cytoskeleton Organization and Cell Wall Construction During *Picea wilsonii* Pollen Germination and Tube Growth. In Biological Trace Element Research, 2012, vol.146, no.1, 86., WOS
- [1.1] SUDO, Keisuke - PARK, Jong-In - SAKAZONO, Satomi - MASUKO-SUZUKI, Hiromi - OSAKA, Masaaki - KAWAGISHI, Mizuho - FUJITA, Kotomi - MARUOKA, Mayumi - NANJO, Hikaru - SUZUKI, Go - SUWABE, Keita - WATANABE, Masao. Demonstration *in vivo* of the role of *Arabidopsis* PLIM2 actin-binding proteins during pollination. In Genes & Genetic Systems, 2013, vol. 88, no. 5, pp. 279. ISSN 1341-7568., WOS
- [1.1] VASKOVICOVA, Katarina - ZARSKY, Viktor - ROESEL, Daniel - NIKOLIC, Margaret - BUCCIONE, Roberto - CVRCKOVA, Fatima - BRABEK, Jan. Invasive cells in animals and plants: searching for LECA machineries in later eukaryotic life. In Biology Direct, 2013, vol. 8. ISSN 1745-6150., WOS
- [1.1] VONDRAKOVA, Zuzana - ELIASOVA, Katerina - VAGNER, Martin. The anti-actin drugs latrunculin and cytochalasin affect the maturation of spruce somatic embryos in different ways. In Plant Science, 2014, vol. 221, no., pp. 90. ISSN 0168-9452., WOS
- [1.1] WORDEN, Natasha - PARK, Eunsook - DRAKAKAKI, Georgia. Trans-Golgi Network-An Intersection of Trafficking Cell Wall Components. In Journal of Integrative Plant Biology, 2012, vol. 54, no. 11, pp. 875. ISSN 1672-9072., WOS
- [1.1] YE, J. R. - ZHOU, L. M. - XU, M. L. *Arabidopsis* LIM proteins PLIM2a and PLIM2b regulate actin configuration during pollen tube growth. In Biologia Plantarum, 2013, vol. 57, no. 3, pp. 433. ISSN 0006-3134., WOS
- [1.1] YUE, Jie-Yu - WU, Li-Jun - WU, Yue-Jin - TANG, Can-Ming. Radiobiological effects of nitrogen ion implantation on upland cotton (*Gossypium hirsutum* L.) pollen grains. In CROP & PASTURE SCIENCE, 2011, vol.62, no.8, 666-677., WOS

ADCA52 CHEN, T. - WANG, X.H. - VON WANGENHEIM, D. - ZHENG, M.Z. - ŠAMAJ, Jozef - JI, W.Q. - LIN, J.X. Probing and tracking organelles in living plant cells. In *Protoplasma*, 2012, vol. 249, no. 2, p. 157-167. (1.922 - IF2011). (2012 - Current Contents). ISSN 0033-183X.

Ohlasy:

- [1.1] ZHANG, Hua - FAN, Jiangli - WANG, Jingyun - ZHANG, Shuangzhe - DOU, Bairui - PENG, Xiaojun. An Off-On COX-2-Specific Fluorescent Probe: Targeting the Golgi Apparatus of Cancer Cells. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2013, vol. 135, no. 31, pp. 11663., WOS

ADCA53 CHEN, Yunmei - CHEN, T. - SHEN, S. - ZHENG, Maozhong - GUO, Yiming - LIN, Jinxing - BALUŠKA, František - ŠAMAJ, Jozef. Differential display proteomic analysis of *Picea meyeri* pollen germination and pollen-tube growth after inhibition of actin polymerization by latrunculin B. In *Plant Journal*, 2006, vol. 47, no. 2, p. 174-195. ISSN 0960-7412.

Ohlasy:

- [1.1] ABRIL, Nieves - GION, Jean-Marc - KERNER, Rene - MUELLER-STARCK, Gerhard - NAVARRO CERRILLO, Rafael M. - PLOMION, Christophe - RENAUT, Jenny - VALLEDOR, Luis - JORRIN-NOVO, Jesus V. Proteomics research on forest trees, the most recalcitrant and orphan plant species. In *PHYTOCHEMISTRY*, 2011, vol.72, no.10, 1219-1242., WOS
- [1.1] DAI, Shaojun - CHEN, Sixue. Single-cell-type Proteomics: Toward a Holistic Understanding of Plant Function. In *Molecular & Cellular Proteomics*, 2012, vol. 11, no. 12, pp. 1622. ISSN 1535-9476., WOS
- [1.1] DE PINO, Veronica - MARINO BUSJLE, Cristina - MORENO, Silvia. Oligomerization of the reversibly glycosylated polypeptide: its role during rice plant development and in the regulation of self-glycosylation. In *Protoplasma*, 2013, vol. 250, no. 1, pp. 111. ISSN 0033-183X., WOS
- [1.1] EGEA, Gustavo - SERRA-PEINADO, Carla - SALCEDO-SICILIA, Laia - GUTIERREZ-MARTINEZ, Enric. Actin acting at the Golgi. In *Histochemistry and Cell Biology*, 2013, vol. 140, no. 3, pp. 347. ISSN 0948-6143., WOS
- [1.1] HUANG, Jong-Chin - CHANG, Liang-Chi - WANG, Min-Long - GUO, Cian-Ling - CHUNG, Mei-Chu - JAUH, Guang-Yuh. Identification and Exploration of Pollen Tube Small Proteins Encoded by Pollination-Induced Transcripts. In *PLANT AND CELL PHYSIOLOGY*, 2011, vol.52, no.9, 1546-1559., WOS
- [1.1] CHEN, Peng - LIAO, Jian - HUANG, Zhipeng - LI, Ru - ZHAO, Yanhong - RAN, Shanmin - ZHOU, Ruiyang. Comparative Proteomics Study on Anther Mitochondria between Cytoplasmic Male Sterility Line and its Maintainer in Kenaf (*Hibiscus cannabinus* L.). In *Crop Science*, 2014, vol. 54, no. 3, pp. 1103. ISSN 0011-183X., WOS
- [1.1] ISCHEBECK, Till - VALLEDOR, Luis - LYON, David - GINGL, Stephanie - NAGLER, Matthias - MEIJON, Monica - EGELHOFER, Volker - WECKWERTH, Wolfram. Comprehensive Cell-specific Protein Analysis in Early and Late Pollen Development from Diploid Microsporocytes to Pollen Tube Growth. In *Molecular & Cellular Proteomics*, 2014, vol. 13, no. 1, pp. 295. ISSN 1535-9476., WOS
- [1.1] LI, Ming - SHA, Aihua - ZHOU, Xianan - YANG, Pingfang. Comparative proteomic analyses reveal the changes of metabolic features in soybean (*Glycine max*) pistils upon pollination. In *SEXUAL PLANT REPRODUCTION*. ISSN 0934-0882, 2012, vol. 25, no. 4, pp. 281., WOS
- [1.1] QUINN, Christina R. - IRIYAMA, Rie - FERNANDO, Danilo D. Expression patterns of conserved microRNAs in the male gametophyte of loblolly pine (*Pinus taeda*). In *Plant Reproduction*, 2014, vol. 27, no. 2, pp. 69. ISSN 2194-7953., WOS
- [1.1] SHI, Ting - ZHUANG, Weibing - ZHANG, Zhen - SUN, Hailong - WANG, Liangju - GAO, Zhihong. Comparative proteomic analysis of pistil abortion in Japanese apricot (*Prunus mume* Sieb. et Zucc.). In *Journal of Plant Physiology*, 2012, vol. 169, no. 13, pp. 1301. ISSN 0176-1617., WOS
- [1.1] WANG, Kun - PENG, Xiaojue - JI, Yanxiao - YANG, Pingfang - ZHU, Yingguo - LI, Shaoqing. Gene, protein, and network of male sterility in rice. In *Frontiers in Plant Science*, 2013, vol. 4. ISSN 1664-462X., WOS
- [1.1] WANG, Kun - ZHAO, Yong - LI, Ming - GAO, Feng - YANG,

Ming-kun - WANG, Xin - LI, Shaoqing - YANG, Pingfang. Analysis of phosphoproteome in rice pistil. In Proteomics, 2014, vol. 14, no. 20, pp. 2319. ISSN 1615-9853., WOS

[1.1] YANG, Nina - SUN, Yuhan - WANG, Yaru - LONG, Cui - LI, Yingyue - LI, Yun. Proteomic Analysis of the Low Mutation Rate of Diploid Male Gametes Induced by Colchicine in Ginkgo biloba L. In Plos One, 2013, vol. 8, no. 10. ISSN 1932-6203., WOS

[1.1] YE, Meixia - CHEN, Zhong - SU, Xiaoxing - JI, Lexiang - WANG, Jia - LIAO, Weihua - MA, Huandi - AN, Xinmin. Study of seed hair growth in Populus tomentosa, an important character of female floral bud development. In BMC Genomics, 2014, vol. 15. ISSN 1471-2164., WOS

[1.1] ZHU, Yunhao - ZHAO, Pengfei - WU, Xiaolin - WANG, Wei - SCALI, Monica - CRESTI, Mauro. Proteomic identification of differentially expressed proteins in mature and germinated maize pollen. In ACTA PHYSIOLOGIAE PLANTARUM, 2011, vol.33, no.4, 1467-1474., WOS

ADCA54 CHU, Ye - FAUSTINELLI, Paola - RAMOS, Maria Laura - HAJDUCH, Martin - STEVENSON, Severin - THELEN, Jay J. - MALEKI, Soheila J. - CHENG, Hsiaopo - OZIAS-AKINS, Peggy. Reduction of IgE Binding and Nonpromotion of Aspergillus flavus Fungal Growth by Simultaneously Silencing Ara h 2 and Ara h 6 in Peanut. In *Journal of agricultural and food chemistry*, 2008, vol.56, no.23, p. 11225 - 11233. (2.532 - IF2007). ISSN 0021-8561.

Ohlasy:

[1.1] ANGENON, G. - THU, T. T. - PRATAP, A - KUMAR, J. Genetic Transformation. In BIOLOGY AND BREEDING OF FOOD LEGUMES, 2011, vol., no., 178., WOS

[1.1] BUBLIN, Merima - BREITENECKER, Heimo. Developing Therapies for Peanut Allergy. In INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY. ISSN 1018-2438, 2014, vol. 165, no. 3, pp. 179., WOS

[1.1] BUIATTI, M. - CHRISTOU, P. - PASTORE, G. The application of GMOs in agriculture and in food production for a better nutrition: two different scientific points of view. In GENES AND NUTRITION. ISSN 1555-8932, 2013, vol. 8, no. 3, pp. 255., WOS

[1.1] CABANOS, Cerrone S. - KATAYAMA, Hiroki - URABE, Hiroyuki - KUWATA, Chikara - MUROTA, Yuri - ABE, Tomoko - OKUMOTO, Yutaka - MARUYAMA, Nobuyuki. Heavy-ion beam irradiation is an effective technique for reducing major allergens in peanut seeds. In MOLECULAR BREEDING. ISSN 1380-3743, 2012, vol. 30, no. 2, pp. 1037., WOS

[1.1] HERMAN, Eliot M. - BURKS, A. Wesley. The impact of plant biotechnology on food allergy. In CURRENT OPINION IN BIOTECHNOLOGY, 2011, vol.22, no.2, 224., WOS

[1.1] HUANG, Hsiao-Wen - YANG, Binghuei Barry - WANG, Chung-Yi. Effects of high pressure processing on immunoreactivity and microbiological safety of crushed peanuts. In FOOD CONTROL. ISSN 0956-7135, 2014, vol. 42, no., pp. 290., WOS

[1.1] CHEN, Liang - SONG, Peng - JIA, Feng - WANG, Jinshui - WU, J - YANG, J - NAKAGOSHI, N - LU - XU, H. Reducing the allergenicity from food by microbial fermentation. In NATURAL RESOURCES AND SUSTAINABLE DEVELOPMENT II, PTS 1-4. ISSN 1022-6680, 2012, vol. 524-527, no., pp. 2302., WOS

- [1.1] CHUNG, Si-Yin - REED, Shawndrika. Reducing Food Allergy: Is There Promise for Food Applications? In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2014, vol. 20, no. 6, pp. 924., WOS
- [1.1] CHU, Y. - GUIMARAES, L. A. - WU, C. L. - TIMPER, P. - HOLBROOK, C. C. - OZIAS-AKINS, P. A Technique to Study Meloidogyne arenaria Resistance in Agrobacterium rhizogenes-Transformed Peanut. In PLANT DISEASE. ISSN 0191-2917, 2014, vol. 98, no. 10, pp. 1292., WOS
- [1.1] PAGLIARANI, Chiara - PERRONE, Irene - CARRA, Andrea - GAMBINO, Giorgio - CATALANO, AJ. Transgene Silencing in Plants: Mechanisms, Applications and New Perspectives. In GENE SILENCING: THEORY, TECHNIQUES AND APPLICATIONS, 2011, vol., no., 1., WOS
- [1.1] PARK, Julian Raymond - MCFARLANE, Ian - PHIPPS, Richard Hartley - CEDDIA, Graziano. The role of transgenic crops in sustainable development. In PLANT BIOTECHNOLOGY JOURNAL, 2011, vol.9, no.1, 2., WOS
- [1.1] SAIZ, Jorge - MONTEALEGRE, Cristina - LUISA MARINA, Maria - GARCIA-RUIZ, Carmen. Peanut Allergens: An Overview. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2013, vol. 53, no. 7, pp. 722., WOS
- [1.1] SHRIVER, Sandra K. - YANG, Wade W. Thermal and Nonthermal Methods for Food Allergen Control. In FOOD ENGINEERING REVIEWS, 2011, vol.3, no.1, 26., WOS
- [1.1] UNCU, Ayse Ozgur - DOGANLAR, Sami - FRARY, Anne. Biotechnology for Enhanced Nutritional Quality in Plants. In CRITICAL REVIEWS IN PLANT SCIENCES. ISSN 0735-2689, 2013, vol. 32, no. 5, pp. 321., WOS
- [1.1] WANG, Xing-Jun - LIU, Shuan-Tao - XIA, Han - WAN, Shu-Bo - ZHAO, Chuan-Zhi - LI, Ai-Qin. Peanut (*Arachis hypogaea* L.) Omics and Biotechnology in China. In PLANT OMICS, 2011, vol.4, no.6, 339., WOS
- [1.1] WHITE, Brittany L. - SHI, Xiaolei - BURK, Caitlin M. - KULIS, Michael - BURKS, A. Wesley - SANDERS, Timothy H. - DAVIS, Jack P. - DOYLE, MP - KLAENHAMMER, TR. Strategies to Mitigate Peanut Allergy: Production, Processing, Utilization, and Immunotherapy Considerations. In ANNUAL REVIEW OF FOOD SCIENCE AND TECHNOLOGY, VOL 5. ISSN 1941-1413, 2014, vol. 5, no., pp. 155., WOS
- [1.1] YANG, Wade W. - MWAKATAGE, Nasson R. - GOODRICH-SCHNEIDER, Renee - KRISHNAMURTHY, Kathiravan - RABABAH, Taha M. Mitigation of Major Peanut Allergens by Pulsed Ultraviolet Light. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2012, vol. 5, no. 7, pp. 2728., WOS

ADCA55 JANSEN, R.C. - NAP, J.P. - MLYNÁROVÁ, Ljudmila. Errors in genomics and proteomics. In *Nature Biotechnology*, 2002, vol. 20, no. 1, p. 19-19. ISSN 1087-0156.

Ohlasy:

- [1.1] FRIEDENBERG, Steven G. - ZHU, Lan - ZHANG, Zhiwu - FOELS, Wendy van den Berg - SCHWEITZER, Peter A. - WANG, Wei - FISHER, Patricia J. - DYKES, Nathan L. - COREY, Elizabeth - VERNIER-SINGER, Margaret - JUNG, Seung-Woo - SHENG, Xihui - HUNTER, Linda S. - McDONOUGH, Sean P. - LUST, George - BLISS, Stuart P. - KROTSCHECK,

Ursula - GUNN, Teresa M. - TODHUNTER, Rory J. Evaluation of a fibrillin 2 gene haplotype associated with hip dysplasia and incipient osteoarthritis in dogs. In AMERICAN JOURNAL OF VETERINARY RESEARCH, 2011, vol.72, no.4, 530-540., WOS

[1.1] LEVI, Liraz - ZIV, Tamar - ADMON, Arie - LEVAVI-SIVAN, Berta - LUBZENS, Esther. Insight into molecular pathways of retinal metabolism, associated with vitellogenesis in zebrafish. In AMERICAN JOURNAL OF PHYSIOLOGY-ENDOCRINOLOGY AND METABOLISM. ISSN 0193-1849, 2012, vol. 302, no. 6, pp. E626., WOS

[1.1] LI, Hongbing - GOODWIN, Paul H. - HAN, Qingmei - HUANG, Lili - KANG, Zhensheng. Microscopy and proteomic analysis of the non-host resistance of Oryza sativa to the wheat leaf rust fungus, Puccinia triticina f. sp tritici. In PLANT CELL REPORTS. ISSN 0721-7714, 2012, vol. 31, no. 4, pp. 637., WOS

[1.1] LI, Hongbing - WEI, Guorong - XU, Jinrong - HUANG, Lili - KANG, Zhensheng. Identification of wheat proteins with altered expression levels in leaves infected by the stripe rust pathogen. In ACTA PHYSIOLOGIAE PLANTARUM, 2011, vol.33, no.6, 2423-2435., WOS

ADCA56 JÁSIK, J. - SALAJ, Terézia - SALAJ, Ján. Developmental anatomy and ultrastructure of early somatic embryos in European black pine *Pinus nigra* Arn. In *Protoplasma*, 1995, vol. 185, no. 3-4, p. 205-211. ISSN 0033-183X.

Ohlasy:

[1.1] PILARSKA, Maria - KNOX, J. Paul - KONIECZNY, Robert. Arabinogalactan-protein and pectin epitopes in relation to an extracellular matrix surface network and somatic embryogenesis and callogenesis in *Trifolium nigrescens* Viv. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2013, vol. 115, no. 1, pp. 35., WOS

[1.2] Korecky, J. - Vitamvas, J. Somatic embryogenesis of the hybrid *Abies cilicica* x *Abies cephalonica*. In Journal of Forest Science, 2011, vol.57, no. 9, p. 401-408., SCOPUS

[3] OBERT, Bohuš - PRETOVÁ, Anna - ŠAMAJ, Jozef. Somatic and Gametic Embryogenesis in Maize: Cell Biology and Applications. In Somatic and Gametic Embryogenesis in Maize: Cell Biology and Applications. 2011, p. 53-66.

ADCA57 JOPČÍK, Martin - BAUER, Miroslav - MORAVČÍKOVÁ, Jana - BOSZORÁDOVÁ, Eva - MATUŠÍKOVÁ, Ildikó - LIBANTOVÁ, Jana. Plant tissue-specific promoters can drive gene expression in *Escherichia coli*. In *Plant Cell, Tissue and Organ Culture*, 2013, vol.113, no.3, p. 387-396. (3.633 - IF2012). (2013 - Current Contents). ISSN 0167-6857.

Ohlasy:

[1.1] DU, Lingjuan - LOU, Qian - ZHANG, Xiongfei - JIAO, Shuzhen - LIU, Yali - WANG, Yuejin. Construction of Flower-specific Chimeric Promoters and Analysis of Their Activities in Transgenic Torenia. In PLANT MOLECULAR BIOLOGY REPORTER. ISSN 0735-9640, 2014, vol. 32, no. 1, pp. 234., WOS

[1.1] MEHROTRA, Amita Kush - BHULLAR, Simran - BURMA, Pradeep Kumar. Development of intron-containing barnase gene (barnase-int) encoding a toxic protein to facilitate its cloning in bacterial cells. In JOURNAL OF PLANT

ADCA58 KATAVIC, V. - AGRAWAL, G. K. - HAJDUCH, Martin - HARRIS, S. L. - THELEN, J. J. Protein and lipid composition analysis of oil bodies from two *Brassica napus* cultivars. In *Proteomics*, 2006, vol.6, no. 16, p.4586-4598. ISSN 1615-9853.

Ohlasy:

- [1.1] ACEVEDO, Francisca - RUBILAR, Monica - SHENE, Carolina - NAVARRETE, Patricia - ROMERO, Fernando - RABERT, Claudia - JOLIVET, Pascale - VALOT, Benoit - CHARDOT, Thierry. Seed Oil Bodies from Gevina avellana and Madia sativa. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2012, vol. 60, no. 28, pp. 6994., WOS
- [1.1] ACEVEDO, Francisca - RUBILAR, Monica - JOFRE, Ignacio - VILLARROEL, Mario - NAVARRETE, Patricia - ESPARZA, Magdalena - ROMERO, Fernando - ALBERTO VILCHES, Elias - ACEVEDO, Valentina - SHENE, Carolina. Oil bodies as a potential microencapsulation carrier for astaxanthin stabilisation and safe delivery. In *JOURNAL OF MICROENCAPSULATION*. ISSN 0265-2048, 2014, vol. 31, no. 5, pp. 488., WOS
- [1.1] AN, Yong-Qiang - LIN, Li. Transcriptional regulatory programs underlying barley germination and regulatory functions of Gibberellin and abscisic acid. In *BMC PLANT BIOLOGY*, 2011, vol.11, no., WOS
- [1.1] BAHRI, Sellema - MARRAKCHI, Raja - BENAMMAR-ELGAAIED, Amel - BEN HAMIDA, Jeannette. Cross reaction between P-61 sunflower seedlings oleosomal protein band and porcine pancreatic lipase. In *AFRICAN JOURNAL OF BIOTECHNOLOGY*, 2011, vol.10, no.77, 17859., WOS
- [1.1] CAO, Heping - ZHANG, Lin - TAN, Xiaofeng - LONG, Hongxu - SHOCKEY, Jay M. Identification, Classification and Differential Expression of Oleosin Genes in Tung Tree (*Vernicia fordii*). In *PLOS ONE*. ISSN 1932-6203, 2014, vol. 9, no. 2, pp., WOS
- [1.1] CLAUSS, Kathleen - VON ROEPENACK-LAHA YE, Edda - BOETTCHER, Christoph - ROTH, Mary R. - WELTI, Ruth - ERBAN, Alexander - KOPKA, Joachim - SCHEEL, Dierk - MILKOWSKI, Carsten - STRACK, Dieter. Overexpression of Sinapine Esterase BnSCE3 in Oilseed Rape Seeds Triggers Global Changes in Seed Metabolism. In *PLANT PHYSIOLOGY*, 2011, vol.155, no.3, 1127., WOS
- [1.1] CRISAFULLI, Paola - NAVARINI, Luciano - SILIZIO, Fabio - PALLAVICINI, Alberto - ILLY, Anna. Ultrastructural Characterization of Oil Bodies in Different Coffea Species. In *TROPICAL PLANT BIOLOGY*. ISSN 1935-9756, 2014, vol. 7, no. 1, pp. 1., WOS
- [1.1] DING, Yunfeng - ZHANG, Shuyan - YANG, Li - NA, Huimin - ZHANG, Peng - ZHANG, Huina - WANG, Yang - CHEN, Yong - YU, Jinhai - HUO, Chaoxing - XU, Shimeng - GARAILOVA, Martina - CONG, Yusheng - LIU, Pingsheng. Isolating lipid droplets from multiple species. In *NATURE PROTOCOLS*. ISSN 1754-2189, 2013, vol. 8, no. 1, pp. 43., WOS
- [1.1] FISK, Ian D. - GRAY, David A. Soybean (*Glycine max*) Oil Bodies and Their Associated Phytochemicals. In *JOURNAL OF FOOD SCIENCE*, 2011, vol.76, no.9, c1349., WOS
- [1.1] GAN, Lu - ZHANG, Chun-yu - WANG, Xiao-dong - WANG, Hao -

- LONG, Yan - YIN, Yong-tai - LI, Dian-Rong - TIAN, Jian-Hua - LI, Zai-yun - LIN, Zhi-wei - YU, Long-Jiang - LI, Mao-Teng. Proteomic and Comparative Genomic Analysis of Two *Brassica napus* Lines Differing in Oil Content. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4965., WOS
- [1.1] HORN, Patrick J. - JAMES, Christopher N. - GIDDA, Satinder K. - KILARU, Aruna - DYER, John M. - MULLEN, Robert T. - OHLROGGE, John B. - CHAPMAN, Kent D. Identification of a New Class of Lipid Droplet-Associated Proteins in Plants. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2013, vol. 162, no. 4, pp. 1926., WOS
- [1.1] HU, Zhi-Yong - HUA, Wei - ZHANG, Liang - DENG, Lin-Bin - WANG, Xin-Fa - LIU, Gui-Hua - HAO, Wan-Jun - WANG, Han-Zhong. Seed Structure Characteristics to Form Ultrahigh Oil Content in Rapeseed. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 4, pp., WOS
- [1.1] CHAPMAN, Kent D. - DYER, John M. - MULLEN, Robert T. Biogenesis and functions of lipid droplets in plants. In JOURNAL OF LIPID RESEARCH. ISSN 0022-2275, 2012, vol. 53, no. 2, pp. 215., WOS
- [1.1] IVASHOV, Vasyl A. - GRILLITSCH, Karlheinz - KOEFELEER, Harald - LEITNER, Erich - BAEUMLISBERGER, Dominic - KARAS, Michael - DAUM, Guenther. Lipidome and proteome of lipid droplets from the methylotrophic yeast *Pichia pastoris*. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS. ISSN 1388-1981, 2013, vol. 1831, no. 2, pp. 282., WOS
- [1.1] JOLIVET, Pascale - ACEVEDO, Francisca - BOULARD, Celine - D&APOS;ANDREA, Sabine - FAURE, Jean-Denis - KOHLI, Ajay - NESI, Nathalie - VALOT, Benoit - CHARDOT, Thierry. Crop seed oil bodies: From challenges in protein identification to an emerging picture of the oil body proteome. In PROTEOMICS. ISSN 1615-9853, 2013, vol. 13, no. 12-13, pp. 1836., WOS
- [1.1] LIU, Yingmei - ZHANG, Congyan - SHEN, Xipeng - ZHANG, Xuelin - CICELLO, Simon - GUAN, Hongbin - LIU, Pingsheng. Microorganism lipid droplets and biofuel development. In BMB REPORTS. ISSN 1976-6696, 2013, vol. 46, no. 12, pp. 575., WOS
- [1.1] LI, Haiyan - DONG, Yuanyuan - YANG, Jing - LIU, Xiuming - WANG, Yanfang - YAO, Na - GUAN, Lili - WANG, Nan - WU, Jinyu - LI, Xiaokun. De Novo Transcriptome of Safflower and the Identification of Putative Genes for Oleosin and the Biosynthesis of Flavonoids. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 2, pp., WOS
- [1.1] LOPEZ-RIBERA, Ignacio - LUIS LA PAZ, Jose - REPISO, Carlos - GARCIA, Nora - MIQUEL, Merce - LUISA HERNANDEZ, Maria - MANUEL MARTINEZ-RIVAS, Jose - VICIENT, Carlos M. The Evolutionary Conserved Oil Body Associated Protein OBAP1 Participates in the Regulation of Oil Body Size. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 164, no. 3, pp. 1237., WOS
- [1.1] MANNIK, Jaana - MEYERS, Alex - DALHAIMER, Paul. Isolation of Cellular Lipid Droplets: Two Purification Techniques Starting from Yeast Cells and Human Placentas. In JOVE-JOURNAL OF VISUALIZED EXPERIMENTS. ISSN 1940-087X, 2014, vol., no. 86, pp., WOS
- [1.1] MIQUEL, Martine - TRIGUI, Ghassen - D&APOS;ANDREA, Sabine - KELEMEN, Zsolt - BAUD, Sebastien - BERGER, Adeline -

- DERUYFFELAERE, Carine - TRUBUIL, Alain - LEPINIEC, Loic - DUBREUCQ, Bertrand. Specialization of Oleosins in Oil Body Dynamics during Seed Development in Arabidopsis Seeds([W][OPEN]). In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 164, no. 4, pp. 1866., WOS
- [1.1] MURALIDHARAN, Mrinalini - BUSS, Kristina - LARRIMORE, Katherine E. - SEGERSON, Nicholas A. - KANNAN, Latha - MOR, Tsafrir S. The Arabidopsis thaliana ortholog of a purported maize cholinesterase gene encodes a GDSL-lipase. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2013, vol. 81, no. 6, pp. 565., WOS
- [1.1] MURPHY, Denis J. The dynamic roles of intracellular lipid droplets: from archaea to mammals. In PROTOPLASMA. ISSN 0033-183X, 2012, vol. 249, no. 3, pp. 541., WOS
- [1.1] NGUYEN, Hoa M. - BAUDET, Mathieu - CUINE, Stephan - ADRIANO, Jean-Marc - BARTHE, Damien - BILLON, Emmanuelle - BRULEY, Christophe - BEISSON, Fred - PELTIER, Gilles - FERRO, Myriam - LI-BEISSON, Yonghua. Proteomic profiling of oil bodies isolated from the unicellular green microalga Chlamydomonas reinhardtii: With focus on proteins involved in lipid metabolism. In PROTEOMICS, 2011, vol.11, no.21, 4266., WOS
- [1.1] PAVITHRA, H. R. - GOWDA, Balakrishna - SHIVANNA, M. B. Biochemical changes in the composition of developing seeds of Pongamia pinnata (L.) Pierre. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2014, vol. 53, no., pp. 199., WOS
- [1.1] PAYNE, Gareth - LAD, Mita - FOSTER, Tim - KHOSLA, Amit - GRAY, David. Composition and properties of the surface of oil bodies recovered from Echium plantagineum. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2014, vol. 116, no., pp. 88., WOS
- [1.1] PU, Jing - HA, Cheol Woong - ZHANG, Shuyan - JUNG, Jong Pil - HUH, Won-Ki - LIU, Pingsheng. Interactomic study on interaction between lipid droplets and mitochondria. In PROTEIN & CELL, 2011, vol.2, no.6, 487., WOS
- [1.1] TNANI, Hedia - LOPEZ, Ignacio - JOUENNE, Thierry - VICIENT, Carlos M. Protein composition analysis of oil bodies from maize embryos during germination. In JOURNAL OF PLANT PHYSIOLOGY, 2011, vol.168, no.5, 510., WOS
- [1.1] TNANI, H. - LOPEZ, I. - JOUENNE, T. - VICIENT, C. M. Quantitative subproteomic analysis of germinating related changes in the scutellum oil bodies of Zea mays. In PLANT SCIENCE. ISSN 0168-9452, 2012, vol. 191, no., pp. 1., WOS
- [1.1] YANG, Li - DING, Yunfeng - CHEN, Yong - ZHANG, Shuyan - HUO, Chaoxing - WANG, Yang - YU, Jinhai - ZHANG, Peng - NA, Huimin - ZHANG, Huina - MA, Yanbin - LIU, Pingsheng. The proteomics of lipid droplets: structure, dynamics, and functions of the organelle conserved from bacteria to humans. In JOURNAL OF LIPID RESEARCH. ISSN 0022-2275, 2012, vol. 53, no. 7, pp. 1245., WOS
- [1.1] ZHANG, Peng - NA, Huimin - LIU, Zhenglong - ZHANG, Shuyan - XUE, Peng - CHEN, Yong - PU, Jing - PENG, Gong - HUANG, Xun - YANG, Fuquan - XIE, Zhensheng - XU, Tao - XU, Pingyong - OU, Guangshuo - ZHANG, Shaobing O. - LIU, Pingsheng. Proteomic Study and Marker Protein Identification of *Caenorhabditis elegans* Lipid Droplets. In MOLECULAR

& CELLULAR PROTEOMICS. ISSN 1535-9476, 2012, vol. 11, no. 8, pp. 317., WOS

[3.1] Wu, Q.K - Yang, S.S - Wang, Y.D - Gao, M - Chen, Y.C. Isolation and Expression Analysis on Vernicia fordii Oleosin Gene of Five VfOLE Isoforms. In Forest Research, 2014, vol. 27, pp. 233-239.

ADCA59 KEMPA, Stefan - ROZHON, Wilfried - ŠAMAJ, Jozef - ERBAN, Alexander - BALUŠKA, František - BECKER, T. - HASELMAYER, J. - SCHLEIF, Enrico - KOPKA, J. - HIRT, Heribert - JONAK, Claudia. A plastid-localized glycogen synthase kinase 3 modulates stress tolerance and carbohydrate metabolism. In *Plant Journal*, 2007, vol. 49, no. 6, p. 1076-1090. (2007 - Current Contents). ISSN 0960-7412.

Ohlasy:

[1.1] BAYER, Roman G. - STAEL, Simon - ROCHA, Agostinho G. - MAIR, Andrea - VOTHKNECHT, Ute C. - TEIGE, Markus.

Chloroplast-localized protein kinases: a step forward towards a complete inventory. In *JOURNAL OF EXPERIMENTAL BOTANY*, 2012, vol. 63, no. 4, 1713., WOS

[1.1] HE, Xiaoliang - TIAN, Jinghan - YANG, Lixia - HUANG, Yanmin - ZHAO, Baocun - ZHOU, Chunjiang - GE, Rongchao - SHEN, Yinzhu - HUANG, Zhanjing. Overexpressing a Glycogen Synthase Kinase Gene from Wheat, TaGSK1, Enhances Salt Tolerance in Transgenic Arabidopsis. In *PLANT MOLECULAR BIOLOGY REPORTER*, 2012, vol. 30, no. 4, 807., WOS

[1.1] HOEHENWARTER, Wolfgang - CHEN, Yanmei - RECUENCO-MUNOZ, Luis - WIENKOOP, Stefanie - WECKWERTH, Wolfram. Functional analysis of proteins and protein species using shotgun proteomics and linear mathematics. In *AMINO ACIDS*, 2011, vol. 41, no. 2, 329-341., WOS

[1.1] CHRISTOV, Nikolai Kirilov - CHRISTOVA, Petya Koeva - KATO, Hideki - LIU, Yuelin - SASAKI, Kentaro - IMAI, Ryozo. TaSK5, an abiotic stress-inducible GSK3/shaggy-like kinase from wheat, confers salt and drought tolerance in transgenic Arabidopsis. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2014, vol. 84, no., pp. 251., WOS

[1.1] KRASENSKY, Julia - JONAK, Claudia. Drought, salt, and temperature stress-induced metabolic rearrangements and regulatory networks. In *JOURNAL OF EXPERIMENTAL BOTANY*, 2012, vol. 63, no. 4, 1593., WOS

[1.1] MUÑOZ-BERTOMEU, Jesus - ANGELES BERMUDEZ, Maria - SEGURA, Juan - ROS, Roc. Arabidopsis plants deficient in plastidial glyceraldehyde-3-phosphate dehydrogenase show alterations in abscisic acid (ABA) signal transduction: interaction between ABA and primary metabolism. In *JOURNAL OF EXPERIMENTAL BOTANY*, 2011, vol. 62, no. 3, 1229-1239., WOS

[1.1] SAIDI, Younousse - HEARN, Timothy J. - COATES, Juliet C. Function and evolution of green&apos; GSK3/Shaggy-like kinases. In *TRENDS IN PLANT SCIENCE*, 2012, vol. 17, no. 1, 39., WOS

[1.1] TETLOW, Ian J. Starch biosynthesis in developing seeds. In *SEED SCIENCE RESEARCH*, 2011, vol. 21, no. 1, 5-32., WOS

[1.1] THITISAKSAKUL, Maysaya - JIMENEZ, Randi C. - ARIAS, Maria C. - BECKLES, Diane M. Effects of environmental factors on cereal starch biosynthesis and composition. In *JOURNAL OF CEREAL SCIENCE*, 2012,

- vol.56, no.1, 67., WOS
- [1.1] WORMIT, Alexandra - BUTT, Salman M. - CHAIRAM, Issariya - MCKENNA, Joseph F. - NUNES-NESI, Adriano - KJAER, Lars - O&APOS;DONNELLY, Kerry - FERNIE, Alisdair R. - WOSCHOLSKI, Ruediger - BARTER, M. C. Laura - HAMANN, Thorsten. Osmosensitive Changes of Carbohydrate Metabolism in Response to Cellulose Biosynthesis Inhibition. In *PLANT PHYSIOLOGY*, 2012, vol.159, no.1, 105., WOS
- [1.1] YANG, Xian-Guang - LIANG, Wei-Hong - LI, Fen - MA, Wen-Shi. OsGSK3 IS A NOVEL GSK3/SHAGGY-LIKE GENE FROM *ORYZA SATIVA* L., INVOLVED IN ABIOTIC STRESS SIGNALING. In *PAKISTAN JOURNAL OF BOTANY*. ISSN 0556-3321, 2012, vol. 44, no. 5, pp. 1491., WOS
- [1.1] ZHONG, Tianxiu - ZHANG, Lijuan - SUN, Shanshan - ZENG, Huiming - HAN, Liebao. Effect of localized reduction of gibberellins in different tobacco organs on drought stress tolerance and recovery. In *PLANT BIOTECHNOLOGY REPORTS*. ISSN 1863-5466, 2014, vol. 8, no. 5, pp. 399., WOS

ADCA60 KLUBICOVÁ, Katarína - DANCHENKO, Maksym - ŠKULTÉTY, Ľudovít - BEREZHNA, V.V. - HRICOVÁ, Andrea - RASHYDOV, N.M. - HAJDUCH, Martin. Agricultural recovery of a formerly radioactive area: II. Systematic proteomic characterization of flax seed development in the remediated Chernobyl area. In *Journal of Proteomics*, 2011, vol. 74, no. 8, p. 1378-1384. (5.074 - IF2010). (2011 - Current Contents). ISSN 1874-3919.

Ohlasy:

- [1.1] BARVKAR, Vitthal T. - PARDESHI, Varsha C. - KALE, Sandip M. - KADOO, Narendra Y. - GIRI, Ashok P. - GUPTA, Vidya S. Proteome Profiling of Flax (*Linum usitatissimum*) Seed: Characterization of Functional Metabolic Pathways Operating during Seed Development. In *JOURNAL OF PROTEOME RESEARCH*, 2012, vol.11, no.12, 6264., WOS
- [1.1] D'ALESSANDRO, Angelo - ZOLLA, Lello. We Are What We Eat: Food Safety and Proteomics. In *JOURNAL OF PROTEOME RESEARCH*, 2012, vol.11, no.1, 26., WOS

ADCA61 KLUBICOVÁ, Katarína - BERČÁK, Michal - DANCHENKO, Maksym - ŠKULTÉTY, Ľudovít - RASHYDOV, N.M. - BEREZHNA, V.V. - MIERNYK, J.A. - HAJDUCH, Martin. Agricultural recovery of a formerly radioactive area: I. Establishment of high-resolution quantitative protein map of mature flax seeds harvested from the remediated Chernobyl area. In *Phytochemistry*, 2011, vol. 72, no. 10, p. 1308 - 1315. (3.150 - IF2010). (2011 - Current Contents). ISSN 0031-9422.

Ohlasy:

- [1.1] Barvkar, V.T., Pardeshi, V.C., Kale, S.M., Kadoo, N.Y., Giri, A.P., Gupta, V.S. Proteome profiling of flax (*Linum usitatissimum*) seed: Characterization of functional metabolic pathways operating during seed development. *Journal of Proteome Research* 11 (12), pp. 6264-6276, 2012, WOS

ADCA62 KLUBICOVÁ, Katarína - DANCHENKO, Maksym - ŠKULTÉTY, Ľudovít - MIERNYK, J.A. - RASHYDOV, N.M. - BEREZHNA, V.V. - PREŤOVÁ, Anna - HAJDUCH, Martin. Proteomics analysis of flax grown in Chernobyl area suggests

limited effect of contaminated environment on seed proteome. In *Environmental Science and Technology*, 2010, vol. 44, no. 18, p. 6940-6946. (4.630 - IF2009). (2010 - Current Contents). ISSN 0013-936X.

Ohlaysy:

- [1.1] Barvkar, VT (Barvkar, Vitthal T.)[ 1 ] ; Pardeshi, VC (Pardeshi, Varsha C.)[ 1 ] ; Kale, SM (Kale, Sandip M.)[ 1 ] ; Kadoo, NY (Kadoo, Narendra Y.)[ 1 ] ; Giri, AP (Giri, Ashok P.)[ 1 ] ; Gupta, VS (Gupta, Vidya S.) Proteome Profiling of Flax (*Linum usitatissimum*) Seed: Characterization of Functional Metabolic Pathways Operating during Seed Development JOURNAL OF PROTEOME RESEARCH Volume: 11 Issue: 12 Pages: 6264-6276 DOI: 10.1021/pr300984r Published: DEC 2012, WOS
- [1.1] Day, A (Day, Arnaud)[ 1,2,3 ] ; Fenart, S (Fenart, Stephane)[ 1,2,3 ] ; Neutelings, G (Neutelings, Godfrey)[ 1,2,3 ] ; Hawkins, S (Hawkins, Simon)[ 1,2,3 ] ; Rolando, C (Rolando, Christian)[ 1,2,4 ] ; Tokarski, C (Tokarski, Caroline)[ 1,2,4 ] Identification of cell wall proteins in the flax (*Linum usitatissimum*) stem PROTEOMICS Volume: 13 Issue: 5 Pages: 812-825 DOI: 10.1002/pmic.201200257 Published: MAR 2013, WOS
- [1.1] Gicquel, M (Gicquel, Morgane)1; Esnault, MA (Esnault, Marie-Andree)1; Jorrin-Novo, JV (Jorrin-Novo, Jesus V.)2; Cabello-Hurtado, F (Cabello-Hurtado, Francisco)1 Application of proteomics to the assessment of the response to ionising radiation in *Arabidopsis thaliana* JOURNAL OF PROTEOMICS Volume: 74 Issue: 8 Special Issue: SI Pages: 1364-1377 DOI: 10.1016/j.jprot.2011.03.025 Published: AUG 12 2011, WOS
- [1.1] Kosova, K (Kosova, Klara)1; Vitamvas, P (Vitamvas, Pavel)1; Prasil, IT (Prasil, Ilja Tom)1; Renaut, J (Renaut, Jenny)2 Plant proteome changes under abiotic stress - Contribution of proteomics studies to understanding plant stress response JOURNAL OF PROTEOMICS Volume: 74 Issue: 8 Special Issue: SI Pages: 1301-1322 DOI: 10.1016/j.jprot.2011.02.006 Published: AUG 12 2011, WOS
- [1.1] Moller, Anders P.; Mousseau, Timothy A. The effects of natural variation in background radioactivity on humans, animals and other organisms BIOLOGICAL REVIEWS Volume: 88 Issue: 1 Pages: 226-254 DOI: 10.1111/j.1469-185X.2012.00249.x Published: FEB 2013, WOS
- [1.1] Tan, F (Tan, Feng)[ 1 ] ; Jin, YH (Jin, Yihe)[ 1 ] ; Liu, W (Liu, Wei)[ 1 ] ; Quan, X (Quan, Xie)[ 1 ] ; Chen, JW (Chen, Jingwen)[ 1 ] ; Liang, Z (Liang, Zhen)[ 2 ] Global Liver Proteome Analysis Using iTRAQ Labeling Quantitative Proteomic Technology to Reveal Biomarkers in Mice Exposed to Perfluorooctane Sulfonate (PFOS) ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 46 Issue: 21 Pages: 12170-12177 DOI: 10.1021/es3027715 Published: NOV 6 2012, WOS
- [1.1] ZHANG, Xinying - LIU, Xiaoyan - CHAI, Wenbo - WEI, Jing - WANG, Qian - LI, Beibei - LI, Hongbing. The use of proteomic analysis for exploring the phytoremediation mechanism of *Scirpus triquetus* to pyrene. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2013, vol. 260, no., pp. 1001., WOS
- [1.2] XIE, Teng - WANG, Sheng - MA, Jiong - GUO, Lanping. Application of bioinformatics in study of Chinese medicine resources. In Zhongguo Zhongyao Zazhi. ISSN 10015302, 2012-01-01, 37, 24, pp. 3684-3690., SCOPUS

ADCA63 KOLÍSEK, M. - ZSURKA, G. - ŠAMAJ, Jozef - WEGHUBER, J. - SCHWEYER, R.J. - SCHWEIGEL, M. Mrs2p is an essential component of the major electrophoretic Mg<sup>2+</sup> influx system in mitochondria. In *EMBO journal : European Molecular Biology Organization*, 2003, vol. 22, no. 6, p. 1235-1244. ISSN 0261-4189.

Ohlasy:

- [1.1] ABELOVSKA, Lenka. Mitochondria as protean organelles: membrane processes that influence mitochondrial shape in yeast. In *GENERAL PHYSIOLOGY AND BIOPHYSICS*, 2011, vol.30, no., s13-S24., WOS
- [1.1] BOSE, Jayakumar - BABOURINA, Olga - RENGEL, Zed. Role of magnesium in alleviation of aluminium toxicity in plants. In *JOURNAL OF EXPERIMENTAL BOTANY*, 2011, vol.62, no.7, 2251-2264., WOS
- [1.1] FERRE, Silvia - HOENDEROP, Joost G. J. - BINDELS, Rene J. M. Insight into renal Mg<sup>2+</sup> transporters. In *CURRENT OPINION IN NEPHROLOGY AND HYPERTENSION*, 2011, vol.20, no.2, 169-176., WOS
- [1.1] KURAMOTO, Takashi - KUWAMURA, Mitsuru - TOKUDA, Satoko - IZAWA, Takeshi - NAKANE, Yoshifumi - KITADA, Kazuhiro - AKAO, Masaharu - GUENET, Jean-Louis - SERIKAWA, Tadao. A Mutation in the Gene Encoding Mitochondrial Mg<sup>2+</sup> Channel MRS2 Results in Demyelination in the Rat. In *PLOS GENETICS*, 2011, vol.7, no.1., WOS
- [1.1] ROMANI, Andrea M. P. Cellular magnesium homeostasis. In *ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS*, 2011, vol.512, no.1, 1-23., WOS
- [1.1] SHINDO, Yutaka - FUJII, Tomohiko - KOMATSU, Hirokazu - CITTERIO, Daniel - HOTTA, Kohji - SUZUKI, Koji - OKA, Kotaro. Newly Developed Mg<sup>2+</sup>-Selective Fluorescent Probe Enables Visualization of Mg<sup>2+</sup> Dynamics in Mitochondria. In *PLOS ONE*, 2011, vol.6, no.8., WOS
- [1.1] SVIDOVA, Soria - SPONDER, Gerhard - SCHWEYEN, Rudolf J. - DJINOVIC-CARUGO, Kristina. Functional analysis of the conserved hydrophobic gate region of the magnesium transporter CorA. In *BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES*, 2011, vol.1808, no.6, 1587-1591., WOS
- [1.1] YOGI, Alvaro - CALLERA, Glauca E. - ANTUNES, Tayze T. - TOSTES, Rita C. - TOUYZ, Rhian M. Transient Receptor Potential Melastatin 7 (TRPM7) Cation Channels, Magnesium and the Vascular System in Hypertension. In *CIRCULATION JOURNAL*, 2011, vol.75, no.2, 237-245., WOS

ADCA64 KONIECZNY, Robert - OBERT, Bohuš - BLEHO, Juraj - NOVÁK, Ondřej - HEYM, Claudia - TULEJA, Monika - MÜLLER, Jens - STRNAD, Miroslav - MENZEL, Diedrik - ŠAMAJ, Jozef. Stable transformation of *Mesembryanthemum crystallinum* (L.) with *Agrobacterium rhizogenes* harboring the green fluorescent protein targeted to the endoplasmic reticulum. In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*, 2011, vol. 168, no. 7, p. 722-729. (2.677 - IF2010). (2011 - Current Contents). ISSN 0176-1617.

Ohlasy:

- [1.1] DAVIES, B. N. - GRIFFITHS, H. Competing carboxylases: circadian and metabolic regulation of Rubisco in C3 and CAM *Mesembryanthemum crystallinum* L. In *PLANT CELL AND ENVIRONMENT*, 2012, vol.35, no.7,

1211., WOS

- [1.1] HORN, Patricia - SANTALA, Johanna - NIELSEN, Steen Lykke - HUEHNS, Maja - BROER, Inge - VALKONEN, Jari P. T. Composite potato plants with transgenic roots on non-transgenic shoots: a model system for studying gene silencing in roots. In *PLANT CELL REPORTS*. ISSN 0721-7714, 2014, vol. 33, no. 12, pp. 1977., WOS
- [1.1] WINTER, Klaus - HOLTUM, Joseph A. M. Facultative crassulacean acid metabolism (CAM) plants: powerful tools for unravelling the functional elements of CAM photosynthesis. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2014, vol. 65, no. 13, pp. 3425., WOS
- [1.1] WU, Jiao - WANG, Yi - ZHANG, Liu-Xia - ZHANG, Xin-Zhong - KONG, Jin - LU, Jiang - HAN, Zhen-Hai. High-efficiency regeneration of Agrobacterium rhizogenes-induced hairy root in apple rootstock Malus baccata (L.) Borkh. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2012, vol. 111, no. 2, pp. 183., WOS

ADCA65 KONIECZNY, R. - KEPCZYNSKI, J. - PILARSKA, M. - CEMBROWSKA, D. - MENZEL, D. - ŠAMAJ, Jozef. Cytokinin and ethylene affect auxin transport-dependent rhizogenesis in hypocotyls of common ice plant (*Mesembryanthemum crystallinum* L.). In *Journal of Plant Growth Regulation*, 2009, vol.28, no. 4, p.331-340. (2.109 - IF2008). (2009 - Current Contents). ISSN 0721-7595.

Ohlasy:

- [1.1] ANGELES AGULLO-ANTONA, Maria - FERRANDEZ-AYELA, Almudena - FERNANDEZ-GARCIA, Nieves - NICOLAS, Carlos - ALBACETE, Alfonso - PEREZ-ALFOCEA, Francisco - SANCHEZ-BRAVO, Jose - MANUEL PEREZ-PEREZ, Jose - ACOSTA, Manuel. Early steps of adventitious rooting: morphology, hormonal profiling and carbohydrate turnover in carnation stem cuttings. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2014, vol. 150, no. 3, pp. 446., WOS
- [1.1] HOCH, Bertold - MORTE, A - VARMA, A. Adventitious Root Development in Ornamental Plants: Insights from Carnation Stem Cuttings. In *ROOT ENGINEERING: BASIC AND APPLIED CONCEPTS*. ISSN 1613-3382, 2014, vol. 40, no., pp. 423., WOS
- [1.1] KUREPIN, Leonid - HASLAM, Tegan - LOPEZ-VILLALOBOS, Arturo - OINAM, Gunamani - YEUNG, Edward. ADVENTITIOUS ROOT FORMATION IN ORNAMENTAL PLANTS: II. THE ROLE OF PLANT GROWTH REGULATORS. In *PROPAGATION OF ORNAMENTAL PLANTS*, 2011, vol.11, no.4, 161-171., WOS
- [1.1] LOPEZ-VILLALOBOS, Arturo - HASLAM, Tegan - KUREPIN, Leonid - OINAM, Gunamani - YEUNG, Edward. ADVENTITIOUS ROOT FORMATION IN ORNAMENTAL PLANTS: III. MOLECULAR BIOLOGY. In *PROPAGATION OF ORNAMENTAL PLANTS*, 2012, vol.12, no.2, 75., WOS
- [1.1] RASMUSSEN, Amanda - MASON, Michael Glenn - DE CUYPER, Carolien - BREWER, Philip B. - HEROLD, Silvia - AGUSTI, Javier - GEELEN, Danny - GREB, Thomas - GOORMACHTING, Sofie - BEECKMAN, Tom - BEVERIDGE, Christine Anne. Strigolactones Suppress Adventitious Rooting in *Arabidopsis* and Pea. In *PLANT PHYSIOLOGY*, 2012, vol.158, no.4, 1976., WOS

- ADCA66 KONIECZNY, R. - PILARSKA, M. - TULEJA, M. - SALAJ, Terézia - ILNICKI, T. Somatic embryogenesis and plant regeneration in zygotic embryos of *Trifolium nigrescens* (Viv.). In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2010, vol. 100, no. 2, p. 123-130. (1.271 - IF2009). (2010 - Current Contents). ISSN 0167-6857.
- Ohlasy:
- [1.1] AI, Peng-Fei - LU, Li-Ping - SONG, Jian-Jun. Cryopreservation of in vitro-grown shoot-tips of *Rabdosia rubescens* by encapsulation-dehydration and evaluation of their genetic stability. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2012, vol. 108, no. 3, pp. 381., WOS
  - [1.1] BUENDIA-GONZALEZ, L. - ESTRADA-ZUNIGA, M. E. - OROZCO-VILLAFUERTE, J. - CRUZ-SOSA, F. - VERNON-CARTER, E. J. Somatic embryogenesis of the heavy metal accumulator *Prosopis laevigata*. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2012, vol. 108, no. 2, pp. 287., WOS
  - [1.1] MARQUES PINHEIRO, Marcos Vinicius - MARTINS, Fabrina Bolzan - FERREIRA DA CRUZ, Ana Claudia - PORTUGAL PINTO DE CARVALHO, Ana Cristina - VENTRELLA, Marilia Contim - OTONI, Wagner Campos. Maturation of *Anthurium andraeanum* cv. Eidibel somatic embryos from nodal segments. In *IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT*. ISSN 1054-5476, 2013, vol. 49, no. 3, pp. 304., WOS
  - [1.1] MARQUES PINHEIRO, Marcos Vinicius - MARTINS, Fabrina Bolzan - FERREIRA DA CRUZ, Ana Claudia - PORTUGAL PINTO DE CARVALHO, Ana Cristina - DE OLIVEIRA, Evelyn Jardim - OTONI, Wagner Campos. Somatic embryogenesis in *Anthurium andraeanum* cv. Eidibel) as affected by different explants. In *ACTA SCIENTIARUM-AGRONOMY*. ISSN 1807-8621, 2014, vol. 36, no. 1, pp. 87., WOS
  - [1.1] MUBBARAKH, Safiah Ahmad - RAHMAH, Safrina - RAHMAN, Zuraida Abdul - SAH, Nazrin Nadirah Mohd - SUBRAMANIAM, Sreeramanan. Cryopreservation of Brassidium Shooting Star Orchid Using the PVS3 Method Supported with Preliminary Histological Analysis. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2014, vol. 172, no. 2, pp. 1131., WOS
  - [1.1] NUNO-AYALA, Alejandro - RODRIGUEZ-GARAY, Benjamin - GUTIERREZ-MORA, Antonia. Somatic embryogenesis in *Jarilla heterophylla* (Caricaceae). In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2012, vol. 109, no. 1, pp. 33., WOS
  - [1.1] WANG, Qin-Mei - GAO, Feng-Zhan - GAO, Xiang - ZOU, Fan-Yu - SUI, Xin - WANG, Meng - HUI, Yue-Jun - WANG, Li. Regeneration of *Clivia miniata* and assessment of clonal fidelity of plantlets. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2012, vol. 109, no. 2, pp. 191., WOS
  - [1.1] YANG, Ling - WANG, Jianan - BIAN, Lei - LI, Yuhua - SHEN, Hailong. Cyclic secondary somatic embryogenesis and efficient plant regeneration in mountain ash (*Sorbus pohuashanensis*). In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2012, vol. 111, no. 2, pp. 173., WOS

ADCA67 KONOTOP, Yevheniia - MÉSZÁROS, Patrik - SPIEß, Nadine - MISTRÍKOVÁ, Veronika - PIRŠELOVÁ, Beáta - LIBANTOVÁ, Jana - MORAVČÍKOVÁ, Jana - TARAN, Natalia - HAUPTVOGEL, Pavel - MATUŠÍKOVÁ, Ildikó. Defense responses of soybean roots during exposure to cadmium, excess of nitrogen supply and combinations of these stressors. In *Molecular Biology Reports*, 2012, vol.39, no. 12, p. 10077-10087. (2.929 - IF2011). (2012 - Current Contents). ISSN 0301-4851.

Ohlasy:

- [1.1] BATOOL, Riffat - HAMEED, Mansoor - ASHRAF, Muhammad - FATIMA, Sana - NAWAZ, Tahira - AHMAD, Muhammad Sajid Aqeel. Structural and functional response to metal toxicity in aquatic Cyperus alopecuroides Rottb. In LIMNOLOGICA. ISSN 0075-9511, 2014, vol. 48, no., pp. 46., WOS

ADCA68 KORMUTÁK, Andrej - VOOKOVÁ, Božena - MAŇKA, Peter - SALAJ, Ján - ČAMEK, Vladimír - GÖMÖRY, Dušan. Abortive embryogenesis in hybrid swarm populations of Pinus sylvestris L. and Pinus mugo Turra. In *Trees*, 2008, vol.22, no.5, p.657-662. (1.467 - IF2007). (2008 - Current Contents). ISSN 0931-1890.

Ohlasy:

- [1.1] Celinski, K.- Pawlaczek, E.M.- Wojnicka-Poltorak, A.- Chudzinska, E.- Prus-Glowacki, W. Cross-species amplification and characterization of microsatellite loci in Pinus mugo Turra. In *BIOLOGIA*, 2013, vol. 68, Iss. 4, p. 621-626., WOS
- [1.1] Wachowiak, W.- Boratyńska, K.- Cavers, S. Geographical patterns of nucleotide diversity and population differentiation in three closely related European pine species in the Pinus mugo complex. In *BOTANICAL JOURNAL OF THE LINNEAN SOCIETY*, 2013, vol. 172, iss. 2, p. 225-238., WOS

ADCA69 KORMUTÁK, Andrej - VOOKOVÁ, Božena - ČAMEK, Vladimír - SALAJ, Terézia - GALGÓCI, Martin - MAŇKA, Peter - BOLEČEK, P. - KUNA, Roman - KOBLIHA, Jaroslav - LUKÁČIK, Ivan - GÖMÖRY, Dušan. Artificial hybridization of some Abies species. In *Plant Systematics and Evolution*, 2013, vol. 299, no. 6, p. 1175-1184. (1.312 - IF2012). (2013 - Current Contents). ISSN 0378-2697.

Ohlasy:

- [1.1] KOBLIHA, Jaroslav - SKORPIK, Petr - STEJSKAL, Jan - CESKA, Pavel. HYBRIDIZATION RESULTS USING THE HYBRID Abies cilicica x Abies cephalonica. In *ACTA SCIENTIARUM POLONORUM-HORTORUM CULTUS*. ISSN 1644-0692, 2014, vol. 13, no. 4, pp. 23., WOS

ADCA70 KORMUTÁK, Andrej - OSTROLUCKÁ, Mária-Gabriela - VOOKOVÁ, Božena - PREŤOVÁ, Anna - FEČKOVÁ, Monika. Artificial hybridization of Pinus sylvestris L. and Pinus mugo Turra. In *Acta Biologica Cracoviensia.Series Botanica*, 2005, vol. 47, suppl. 1, p. 129-134. ISSN 0001-5296.

Ohlasy:

- [1.1] BORATYNSKA, Krystyna - JASINSKA, Anna K. - MARCYSIAK, Katarzyna - SOBIERAJSKA, Karolina. Pinus uliginosa from Czarne Bagno peat-bog (Sudetes) compared morphologically to related Pinus species. In *DENDROBIOLOGY*, 2011, vol.65, no., 17-28., WOS
- [1.1] DANUSEVICIUS, Darius - MAROZAS, Vitas - BRAZAITIS, Gediminas - PETROKAS, Raimundas - CHRISTENSEN, Knud Ib. Spontaneous

Hybridization between *Pinus mugo* and *Pinus sylvestris* at the Lithuanian Seaside: A Morphological Survey. In SCIENTIFIC WORLD JOURNAL. ISSN 1537-744X, 2012, vol., no., pp., WOS

- [1.1] DANUSEVICIUS, Darius - BUCHOVSKA, Jurata - STANYS, Vidmantas - SIKSNIANIENE, Jurate Brone - MAROZAS, Vitas - BENDOKAS, Vidmantas. DNA marker based identification of spontaneous hybrids between *Pinus mugo* and *P. sylvestris* at the Lithuanian sea-side. In NORDIC JOURNAL OF BOTANY. ISSN 0107-055X, 2013, vol. 31, no. 3, pp. 344., WOS
- [1.1] DANUSEVICIUS, Darius - BUCHOVSKA, Jurata - STANYS, Vidmantas - SIKSNIANIENE, Jurate Brone - BALIUCKAS, Virgilijus - BRAZAITIS, Gediminas. Chloroplast DNA polymorphism of an exotic *P. mugo* Turra population introduced to seaside spit of Kursiu Nerija in Lithuania. In EUROPEAN JOURNAL OF FOREST RESEARCH. ISSN 1612-4669, 2013, vol. 132, no. 1, pp. 137., WOS
- [1.1] VASILYEVA, G. V. - GOROSHKEVICH, S. N. Crossability of *Pinus sibirica* and *P. pumila* with their hybrids. In SILVAE GENETICA. ISSN 0037-5349, 2013, vol. 62, no. 1-2, pp. 61., WOS
- [1.1] WACHOWIAK, Witold - PALME, Anna E. - SAVOLAINEN, Outi. Speciation history of three closely related pines *Pinus mugo* (T.), *P. uliginosa* (N.) and *P. sylvestris* (L.). In MOLECULAR ECOLOGY, 2011, vol.20, no.8, 1729-1743., WOS

ADCA71 KORMUTÁK, Andrej - VOOKOVÁ, Božena. Biochemical variation between non-embryogenic and embryogenic calli of silver fir. In *Biologia Plantarum : international journal*, 1997, vol. 39, no. 1, p. 125-130. (1997 - Current Contents). ISSN 0006-3134.

Ohlasy:

- [1.1] FATIMA, S. - MUJIB, A. - SAMAJ, J. Anti-oxidant enzyme responses during in vitro embryogenesis in *Catharanthus roseus*. In JOURNAL OF HORTICULTURAL SCIENCE & BIOTECHNOLOGY, 2011, vol.86, no.6, 569., WOS

ADCA72 KORMUTÁK, Andrej - SALAJ, Terézia - MATÚŠOVÁ, Radoslava - VOOKOVÁ, Božena. Biochemistry of zygotic and somatic embryogenesis in silver fir (*Abies alba* Mill.). In *Acta Biologica Cracoviensia.Series Botanica*, 2003, vol. 45 suppl. 1, p. 59-62. ISSN 0001-5296.

Ohlasy:

- [1.1] HAZUBSKA-PRZYBYL, Teresa - RATAJCZAK, Ewelina - KALEMBA, Ewa Marzena - BOJARCZUK, Krystyna. Growth regulators and guaiacol peroxidase activity during the induction phase of somatic embryogenesis in *Picea* species. In DENDROBIOLOGY. ISSN 1641-1307, 2013, vol. 69, no., pp. 77., WOS
- [1.2] SILVA, Marina Medeiros De Araújo - ULISSES, Cláudia - E MEDEIROS, Maria Jaislanny Lacerda - GRANJA, Manuela Maria Cavalcante - WILLADINO, Lilia - CAMARA, Terezinha. Antioxidant enzymes activity in embryogenic and non-embryogenic tissues in sugarcane | Actividad de enzimas antioxidantes en tejidos embriogénicos y no embriogénicos de caña de azúcar. In Acta Biologica Colombiana. ISSN 0120548X, 2014-01-01, 19, 2, pp. 203-210., SCOPUS
- [1.2] SILVA, Marina Medeiros De Araújo - ULISSES, Cláudia - E

MEDEIROS, Maria Jaislanny Lacerda - GRANJA, Manuela Maria Cavalcante - WILLADINO, Lilia - CAMARA, Terezinha. Antioxidant enzymes activity in embryogenic and non-embryogenic tissues in sugarcane | Actividad de enzimas antioxidantes en tejidos embriogénicos y no embriogénicos de caña de azúcar. In Acta Biologica Colombiana. ISSN 0120548X, 2014-01-01, 19, 2, pp. 203-210., SCOPUS

ADCA73 KORMUTÁK, Andrej - VOOKOVÁ, Božena - GAJDOŠOVÁ, Alena - SALAJ, Ján. HYBRIDOGOLOGICAL RELATIONSHIPS BETWEEN PINUS-NIGRA ARN, PINUS-THUNBERGII PARL AND PINUS-TABULAEFORMIS CARRIERE. In *Silvae Genetica*, 1992, vol.41, no.4-5, p. 228-234. ISSN 0037-5349.

Ohlasy:

[1.1] ZHAO, Wei - MENG, Jingxiang - WANG, Baosheng - ZHANG, Lisha - XU, Yulan - ZENG, Qing-Yin - LI, Yue - MAO, Jian-Feng - WANG, Xiao-Ru. WEAK CROSSABILITY BARRIER BUT STRONG JUVENILE SELECTION SUPPORTS ECOLOGICAL SPECIATION OF THE HYBRID PINE PINUS DENSATA ON THE TIBETAN PLATEAU. In *EVOLUTION*. ISSN 0014-3820, 2014, vol. 68, no. 11, pp. 3120., WOS

ADCA74 KORMUTÁK, Andrej - VOOKOVÁ, Božena - ZIEGENNHAGEN, B. - KWON, H.Y - HONG, Y.P. Chloroplast DNA variation in some representatives of the Asian, north American and Mediterranean firs (Abies spp). In *Silvae Genetica*, 2004, vol.53, no.3, p. 99-104. ISSN 0037-5349.

Ohlasy:

[1.1] SEMERIKOVA, S. A. - SEMERIKOV, V. L. Molecular phylogenetic analysis of the genus Abies (Pinaceae) based on the nucleotide sequence of chloroplast DNA. In *RUSSIAN JOURNAL OF GENETICS*. ISSN 1022-7954, 2014, vol. 50, no. 1, pp. 7., WOS

ADCA75 KORMUTÁK, Andrej - MATÚŠOVÁ, Radoslava - SZMIDT, A. - LINDGREN, D. Karyological, anatomical and restriction-fragment-length-polymorphism characteristics of the interspecific hybrid Pinus-banksiana x Pinus-contorta. In *Biologia : journal of the Slovak Academy of Science*, 1993, vol. 48, no. 1, p. 95-100. (0.050 - IF1992). (1993 - Current Contents). ISSN 0006-3088.

Ohlasy:

[1.1] SHEUE, Chiou-Rong - CHANG, Hsiu-Chin - YANG, Yuen-Po - LIU, Ho-Yih - CHESSON, Peter - HSU, Fu-Hsiung. A new classification of marginal resin ducts improves understanding of hard pine (Pinaceae) diversity in Taiwan. In *FLORA*. ISSN 0367-2530, 2014, vol. 209, no. 8, pp. 414., WOS

ADCA76 KORMUTÁK, Andrej - VOOKOVÁ, Božena. Peroxidase activity in non-embryogenic and embryogenic calli and in developing somatic embryos of white fir (Abies concolor Gord. et Glend). In *Plant Biosystems*, 2001, vol.135, no. 1, p. 101-105. ISSN 1126-3504.

Ohlasy:

[1.1] BAGGIO SAVIO, Luiz Eduardo - ASTARITA, Leandro Vieira - SANTAREM, Eliane Romanato. Secondary metabolism in micropropagated Hypericum perforatum L. grown in non-aerated liquid medium. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2012, vol. 108, no. 3, pp.

465., WOS

- [1.1] LIN, Guang-Zhe - ZHAO, Xiao-Mei - HONG, Soon-Kwan - LIAN, Yu-Ji. Somatic embryogenesis and shoot organogenesis in the medicinal plant Pulsatilla koreana Nakai. In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.106, no.1, 93., WOS

ADCA77 KORMUTÁK, Andrej - SALAJ, Ján - VOOKOVÁ, Božena. POLLEN VIABILITY AND SEED SET OF SILVER FIR (ABIES-ALBA MILL) IN POLLUTED AREAS OF SLOVAKIA. In *Silvae Genetica*, 1994, vol.43, no.2-3, p. 68-73. ISSN 0037-5349.

Ohlasy:

- [1.1] BATOS, Branislava Z. - NIKOLIC, Biljana M. Variability of in vitro germination of *Picea omorika* pollen. In DENDROBIOLOGY. ISSN 1641-1307, 2013, vol. 69, no., pp. 13., WOS
- [1.1] BATOS, Branislava - MILJKOVIC, Danijela - BOBINAC, M. SOME CHARACTERS OF THE POLLEN OF SPRING AND SUMMER FLOWERING COMMON OAK (*QUERCUS ROBUR* L.). In ARCHIVES OF BIOLOGICAL SCIENCES. ISSN 0354-4664, 2012, vol. 64, no. 1, pp. 85., WOS
- [1.2] BATOS, B. - MILJKOVIĆ, D. - BOBINAC, M. Some characters of the pollen of spring and summer flowering common oak (*Quercus robur* L.). In Archives of Biological Sciences, 2012, 64, 1, pp. 85-95., SCOPUS
- [1.2] FIJAŁKOWSKA-MADER, A. Impact of the environmental stress on the late permian palynoflora from Poland | Odzwierciedlenie stresu środowiskowego w paunoflorze późnego permu w Polsce. In Biuletyn Panstwowego Instytutu Geologicznego, 2012, 452, pp. 23-32., SCOPUS

ADCA78 KORMUTÁK, Andrej - BOHOVIČOVÁ, Jana - VOOKOVÁ, Božena - GÖMÖRY, Dušan. Pollen viability in hybrid swarm populations of *Pinus mugo* Turra and *P. sylvestris* L. In *Acta Biologica Cracoviensis : series Botanica*, 2007, vol. 49, suppl. 1, p.61-66. ISSN 0001-5296.

Ohlasy:

- [1.1] BATOS, Branislava Z. - NIKOLIC, Biljana M. Variability of in vitro germination of *Picea omorika* pollen. In DENDROBIOLOGY. ISSN 1641-1307, 2013, vol. 69, no., pp. 13., WOS
- [1.1] JOUNG, Young Hee - HILL, Jerry L. - HYUN, Jung Oh - MU, Ding - LUO, Juchun - LEE, Do Hyung - KAWAHARA, Takayuki - SUH, Jeung Keun - ROH, Mark S. A hybrid swarm population of *Pinus densiflora* x *P. sylvestris* inferred from sequence analysis of chloroplast DNA and morphological characters. In JOURNAL OF FORESTRY RESEARCH. ISSN 1007-662X, 2013, vol. 24, no. 1, pp. 53., WOS
- [1.1] LI GUIRONG - YANG PENGMING - MO HAIZHEN - FAN XIUCAI. Determination of Different Grape Varieties Pollen Viability. In PROCEEDINGS OF THE SEVENTH INTERNATIONAL SYMPOSIUM ON VITICULTURE AND ENOLOGY (2011), 2011, vol., no., 148-152., WOS
- [1.1] WEST, Willow - BALDWIN, Stacey - RICH, Timothy C. G. Pollen viability and size in British *Centaurium* Hill and *Gentianella Moench* (Gentianaceae) taxa. In GRANA. ISSN 0017-3134, 2014, vol. 53, no. 2, pp. 111., WOS

ADCA79 KORMUTÁK, Andrej - MAŇKA, Peter - VOOKOVÁ, Božena - SALAJ, Terézia - ČAMEK, Vladimír - BOLEČEK, P. - GÖMÖRY, Dušan. Seed quality in hybrid swarm populations of *Pinus mugo* Turra and *P. sylvestris* L. In *Plant Systematics and Evolution*, 2009, vol. 277, no. 3-4, p.245-250. (1.440 - IF2008). ISSN 0378-2697.

Ohlasy:

[1.1] CELINSKI, Konrad - PAWLACZYK, Ewa Maria - WOJNICKA-POLTORAK, Aleksandra - CHUDZINSKA, Ewa - PRUS-GLOWACKI, Wieslaw. Cross-species amplification and characterization of microsatellite loci in *Pinus mugo* Turra. In *BIOLOGIA*. ISSN 0006-3088, 2013, vol. 68, no. 4, pp. 621., WOS

ADCA80 KORMUTÁK, Andrej - DEMANKOVÁ, Beata - GÖMÖRY, Dušan. Spontaneous Hybridization between *Pinus sylvestris* L. and *P. mugo* Turra in Slovakia. In *Silvae Genetica*, 2008, vol.57, no.2, p. 76-82. (0.545 - IF2007). ISSN 0037-5349.

Ohlasy:

[1.1] DANUSEVICIUS, Darius - MAROZAS, Vitas - BRAZAITIS, Gediminas - PETROKAS, Raimundas - CHRISTENSEN, Knud Ib. Spontaneous Hybridization between *Pinus mugo* and *Pinus sylvestris* at the Lithuanian Seaside: A Morphological Survey. In *SCIENTIFIC WORLD JOURNAL*. ISSN 1537-744X, 2012, vol., no., pp., WOS

[1.1] DANUSEVICIUS, Darius - BUCHOVSKA, Jurata - STANYS, Vidmantas - SIKSNIANIENE, Jurate Brone - MAROZAS, Vitas - BENDOKAS, Vidmantas. DNA marker based identification of spontaneous hybrids between *Pinus mugo* and *P. sylvestris* at the Lithuanian sea-side. In *NORDIC JOURNAL OF BOTANY*. ISSN 0107-055X, 2013, vol. 31, no. 3, pp. 344., WOS

[1.1] DANUSEVICIUS, Darius - BUCHOVSKA, Jurata - STANYS, Vidmantas - SIKSNIANIENE, Jurate Brone - BALIUCKAS, Virgilijus - BRAZAITIS, Gediminas. Chloroplast DNA polymorphism of an exotic *P. mugo* Turra population introduced to seaside spit of Kursiu Nerija in Lithuania. In *EUROPEAN JOURNAL OF FOREST RESEARCH*. ISSN 1612-4669, 2013, vol. 132, no. 1, pp. 137., WOS

ADCA81 KORMUTÁK, Andrej - SALAJ, Terézia - VOOKOVÁ, Božena. Storage protein dynamics in zygotic and somatic embryos of white fir. In *Biologia*, 2006, vol. 61, no 4, p. 479-485. (0.240 - IF2005). (2006 - Current Contents). ISSN 0006-3088.

Ohlasy:

[1.1] ELHITI, Mohamed - STASOLLA, Claudio - THORPE, TA - YEUNG, EC. The Use of Zygotic Embryos as Explants for In Vitro Propagation: An Overview. In *PLANT EMBRYO CULTURE: METHODS AND PROTOCOLS*, 2011, vol.710, no., 229., WOS

[1.1] KRAJNAKOVA, Jana - BERTOLINI, Alberto - GOEMOERY, Dusan - VIANELLO, Angelo - HAGGMAN, Hely. Initiation, long-term cryopreservation, and recovery of *Abies alba* Mill. embryogenic cell lines. In *IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT*. ISSN 1054-5476, 2013, vol. 49, no. 5, pp. 560., WOS

[1.1] VONDRAKOVA, Zuzana - ELIASOVA, Katerina - FISCHEROVA, Lucie - VAGNER, Martin. The role of auxins in somatic embryogenesis of *Abies*

alba. In CENTRAL EUROPEAN JOURNAL OF BIOLOGY, 2011, vol.6, no.4, 587-596., WOS

[1.2] KORECKÝ, J. - VÍTÁMVÁS, J. Somatic embryogenesis of the hybrid Abies cilicica × Abies cephalonica. In Journal of Forest Science, 2011, vol.57, no.9, 401-408., SCOPUS

ADCA82 LI, Shutian - ŠAMAJ, Jozef - TONG, Franklin - VERNONICA, E. A mitogen-activated protein kinase signals to programmed cell death induced by self-incompatibility in Papaver pollen. In *Plant Physiology*, 2007, vol. 145, no. 1, p. 236-245. (6.125 - IF2006). ISSN 0032-0889.

Ohlays:

[1.1] BAHIELDIN, A. - RAMADAN, A. M. - ATEF, A. - GADALLA, N. O. - EDRIS, S. - SHOKRY, A. M. - HASSAN, S. M. - EISSL, H. F. - KAMAL, K. B. H. - RABAH, S. - ABUZINADAH, O. A. - AL-KORDY, M. A. - EL-DOMYATI, F. M. Detection of Stably Expressed Genes Contributing To PCD Triggered by Exogenous Oxalic Acid Treatment in Tobacco. In LIFE SCIENCE JOURNAL-ACTA ZHENGZHOU UNIVERSITY OVERSEAS EDITION. ISSN 1097-8135, 2012, vol. 9, no. 4, pp. 5027., WOS

[1.1] DEVARENNE, Timothy P. The plant cell death suppressor Adi3 interacts with the autophagic protein Atg8h. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*, 2011, vol.412, no.4, 699-703., WOS

[1.1] DITTRICH, Anna C. Nelson - DEVARENNE, Timothy P. An ATP analog-sensitive version of the tomato cell death suppressor protein kinase Adi3 for use in substrate identification. In *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS*, 2012, vol.1824, no.2, 269., WOS

[1.1] DONIAK, Magdalena - BARCISZEWSKA, Miroslawa Z. - KAZMIERCZAK, Joanna - KAZMIERCZAK, Andrzej. The crucial elements of the 'last step' of programmed cell death induced by kinetin in root cortex of V. faba ssp. minor seedlings. In *PLANT CELL REPORTS*. ISSN 0721-7714, 2014, vol. 33, no. 12, pp. 2063., WOS

[1.1] IGAMBERDIEV, Abir U. - STASOLLA, Claudio - HILL, Robert D. - VANDONGEN, JT - LICAUSI, F. Low Oxygen Stress, Nonsymbiotic Hemoglobins, NO, and Programmed Cell Death. In *LOW-OXYGEN STRESS IN PLANTS: OXYGEN SENSING AND ADAPTIVE RESPONSES TO HYPOXIA*. ISSN 1861-1370, 2014, vol. 21, no., pp. 41., WOS

[1.1] LI, Zhe - YUE, Haiyun - XING, Da. MAP Kinase 6-mediated activation of vacuolar processing enzyme modulates heat shock-induced programmed cell death in Arabidopsis. In *NEW PHYTOLOGIST*, 2012, vol.195, no.1, 85., WOS

[1.1] SERRANO, Irene - ROMERO-PUERTAS, Maria C. - RODRIGUEZ-SERRANO, Maria - SANDALIO, Luisa M. - OLMEDILLA, Adela. Peroxynitrite mediates programmed cell death both in papillar cells and in self-incompatible pollen in the olive (*Olea europaea* L.). In *JOURNAL OF EXPERIMENTAL BOTANY*, 2012, vol.63, no.3, 1479., WOS

[1.1] WANG, Jin - LI, Xinrong - LIU, Yubing - ZHAO, Xin - CHEN, Cuiyun - TIAN, Fang. MEK/ERK inhibitor U0126 enhanced salt stress-induced programmed cell death in *Thellungiella halophila* suspension-cultured cells. In *PLANT GROWTH REGULATION*, 2011, vol.63, no.3, 207-216., WOS

[1.1] WANG, Kun - ZHAO, Yong - LI, Ming - GAO, Feng - YANG,

Ming-kun - WANG, Xin - LI, Shaoqing - YANG, Pingfang. Analysis of phosphoproteome in rice pistil. In PROTEOMICS. ISSN 1615-9853, 2014, vol. 14, no. 20, pp. 2319., WOS

[1.1] WANG, Shengyi - YU, Yihe - ZHANG, Chaohong - XU, Weirong - WANG, Yuejin. Molecular cloning and characterization of a novel gene encoding an EF-hand calcium-binding protein related to fruit seedlessness of grapevine. In SCIENTIA HORTICULTURAE, 2011, vol.130, no.4, 708-714., WOS

[1.1] YE, Yun - LI, Zhe - XING, Da. Nitric oxide promotes MPK6-mediated caspase-3-like activation in cadmium-induced *Arabidopsis thaliana* programmed cell death. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2013, vol. 36, no. 1, pp. 1., WOS

ADCA83 LIBANTOVÁ, Jana - KAMARAINEN, T. - MORAVČÍKOVÁ, Jana - MATUŠÍKOVÁ, Ildikó - SALAJ, Ján. Detection of chitinolytic enzymes with different substrate specificity in tissues of intact sundew (*Drosera rotundifolia L.*). In *Molecular Biology Reports*, 2009, vol. 36, no.5, p.851-856. (1.750 - IF2008). ISSN 0301-4851.

Ohlasy:

[1.1] AHMED, Nasar Uddin - PARK, Jong-In - SEO, Mi-Suk - KUMAR, Thamilarasan Senthil - LEE, In-Ho - PARK, Beom-Seok - NOU, Ill-Sup. Identification and expression analysis of chitinase genes related to biotic stress resistance in *Brassica*. In MOLECULAR BIOLOGY REPORTS. ISSN 0301-4851, 2012, vol. 39, no. 4, pp. 3649., WOS

[1.1] AHMED, Nasar Uddin - PARK, Jong-In - JUNG, Hee-Jeong - KANG, Kwon-Kyoo - HUR, Yoonkang - LIM, Yong-Pyo - NOU, Ill-Sup. Molecular characterization of stress resistance-related chitinase genes of *Brassica rapa*. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2012, vol. 58, no., pp. 106., WOS

[1.1] COLAS, Steven - AFOUFA-BASTIEN, Damien - JACQUEENS, Lucile - CLEMENT, Christophe - BAILLIEUL, Fabienne - MAZEYRAT-GOURBEYRE, Florence - MONTI-DEDIEU, Laurence. Expression and In Situ Localization of Two Major PR Proteins of Grapevine Berries during Development and after UV-C Exposition. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 8, pp., WOS

[1.1] GONI, Oscar - SANCHEZ-BALLESTA, Maria T. - MERODIO, Carmen - ESCRIBANO, Maria I. Two cold-induced family 19 glycosyl hydrolases from cherimoya (*Annona cherimola*) fruit: An antifungal chitinase and a cold-adapted chitinase. In PHYTOCHEMISTRY. ISSN 0031-9422, 2013, vol. 95, no., pp. 94., WOS

[1.1] PAVLOVIC, Andrej - KRAUSKO, Miroslav - LIBIAKOVA, Michaela - ADAMEC, Lubomir. Feeding on prey increases photosynthetic efficiency in the carnivorous sundew *Drosera capensis*. In ANNALS OF BOTANY. ISSN 0305-7364, 2014, vol. 113, no. 1, pp. 69., WOS

[1.1] PULLA, Rama Krishna - LEE, Ok Ran - IN, Jun-Gyo - PARVIN, Shohana - KIM, Yu-Jin - SHIM, Ju-Sun - SUN, Hua - KIM, Yeon-Ju - SENTHIL, Kalaiselvi - YANG, Deok-Chun. Identification and characterization of class I chitinase in *Panax ginseng* C. A. Meyer. In MOLECULAR BIOLOGY REPORTS, 2011, vol.38, no.1, 95., WOS

[1.1] RENNER, Tanya - SPECHT, Chelsea D. Molecular and Functional

Evolution of Class I Chitinases for Plant Carnivory in the Caryophyllales. In MOLECULAR BIOLOGY AND EVOLUTION. ISSN 0737-4038, 2012, vol. 29, no. 10, pp. 2971., WOS

[1.1] RENNER, Tanya - SPECHT, Chelsea D. Inside the trap: gland morphologies, digestive enzymes, and the evolution of plant carnivory in the Caryophyllales. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2013, vol. 16, no. 4, pp. 436., WOS

ADCA84 LIBIAKOVÁ, Gabriela - JORGENSEN, Bodil - PALGREN, Gorm - ULVSKOV, Peter - JOHANSEN, Elisabeth. Efficacy of an intron-containing kanamycin resistance gene as a selectable marker in plant transformation. In *Plant Cell Reports*, 2001, vol. 20, no. 7, p. 610-615. (1.277 - IF2000). ISSN 0721-7714.

Ohlasy:

[1.1] CONTE, Sarah S. - LLOYD, Alan M. Exploring multiple drug and herbicide resistance in plants-Spotlight on transporter proteins. In PLANT SCIENCE, 2011, vol.180, no.2, 196., WOS

[1.1] GAPEEVA, T. A. - ANTSIPAVA, T. V. - PUNDIK, A. N. - VOLOTOVSKI, I. D. Responses of transgenic Nicotiana tabacum seedlings expressing a Cucurbita pepo antisense PHYA RNA to far-red radiation. In BIOLOGIA PLANTARUM, 2011, vol.55, no.2, 253., WOS

[1.1] JOYCE, P. A. - DINH, S-Q. - BURNS, E. M. - O&APOS;SHEA, M. G. Sugar from genetically modified sugarcane: Tracking transgenes, transgene products and compositional analysis. In INTERNATIONAL SUGAR JOURNAL. ISSN 0020-8841, 2013, vol. 115, no. 1380, pp. 864., WOS

[1.1] TAPARIA, Yogesh - GALLO, Maria - ALTPETER, Fredy. Comparison of direct and indirect embryogenesis protocols, biolistic gene transfer and selection parameters for efficient genetic transformation of sugarcane. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 111, no. 2, pp. 131., WOS

[3.1] Ki-Jong L.- Sung-Dug, O.-Soo-In, S. - Tae-Hun, R. - Jong-Sug, P. - Jang-Yong, L. - Hyun-Suk, Ch. - Byung-Ohg, A. The Effects of Genetically Modified Crops on Soil Microbial Community. In Korean J Environ Agric., 2012, vol. 31, no.2, p. 192-199.

[3.1] Positive Selection Marker. [Cit. december 2011] Dostupné na internete: <http://www.grovida.com/horticulture-forestry/positive-selection-marker.html>.

[3.1] Taparia, Y. - Gallo, M. - Altpeter, F. Comparison of direct and indirect embryogenesis protocols, biolistic gene transfer and selection parameters for efficient genetic transformation of sugarcane. In Plant Cell Tissue and Organ Culture, 2012, Vol. 111, no.2, p. 131-141.

[3.1] Verma, S.R. Genetically Modified Plants: Public and Scientific Perceptions. ISRN Biotechnology, Hindawi Publishing Corporation, ISRN Biotechnology, 2013, Article ID, p.11.

ADCA85 LIU, P. - LI, R.L. - ZHANG, L. - WANG, Q. L. - NIEHAUS, K. - BALUŠKA, František - ŠAMAJ, Jozef - LIN, J.X. Lipid microdomain polarization is required for NADPH oxidase-dependent ROS signaling in Picea meyeri pollen tube tip growth. In *Plant Journal*, 2009, vol. 60, no. 2, p. 303-313. (6.493 - IF2008). ISSN 0960-7412.

Ohlasy:

[1.1] BLACHUTZIK, Joerg O. - DEMIR, Fatih - KREUZER, Ines -

- HEDRICH, Rainer - HARMS, Gregory S. Methods of staining and visualization of sphingolipid enriched and non-enriched plasma membrane regions of *Arabidopsis thaliana* with fluorescent dyes and lipid analogues. In *PLANT METHODS*. ISSN 1746-4811, 2012, vol. 8, no., pp., WOS
- [1.1] BLOCH, Dana - YALOVSKY, Shaul. Cell polarity signaling. In *CURRENT OPINION IN PLANT BIOLOGY*. ISSN 1369-5266, 2013, vol. 16, no. 6, pp. 734., WOS
- [1.1] BOISSON-DERNIER, Aurelien - LITUIEV, Dmytro S. - NESTOROVA, Anna - FRANCK, Christina Maria - THIRUGNANARAJAH, Sharne - GROSSNIKLAUS, Ueli. ANXUR Receptor-Like Kinases Coordinate Cell Wall Integrity with Growth at the Pollen Tube Tip Via NADPH Oxidases. In *PLOS BIOLOGY*. ISSN 1545-7885, 2013, vol. 11, no. 11, pp., WOS
- [1.1] CACAS, Jean-Luc - FURT, Fabienne - LE GUEDARD, Marina - SCHMITTER, Jean-Marie - BURE, Corinne - GERBEAU-PISSOT, Patricia - MOREAU, Patrick - BESSOULE, Jean-Jacques - SIMON-PLAS, Francoise - MONGRAND, Sebastien. Lipids of plant membrane rafts. In *PROGRESS IN LIPID RESEARCH*, 2012, vol.51, no.3, 272., WOS
- [1.1] CARMONA-SALAZAR, Laura - EL HAFIDI, Mohammed - ENRIQUEZ-ARREDONDO, Consuelo - VAZQUEZ-VAZQUEZ, Christian - GONZALEZ DE LA VARA, Luis E. - GAVILANES-RUIZ, Marina. Isolation of detergent-resistant membranes from plant photosynthetic and non-photosynthetic tissues. In *ANALYTICAL BIOCHEMISTRY*, 2011, vol.417, no.2, 220-227., WOS
- [1.1] COLACO, R. - MORENO, N. - FEIJO, J. A. On the fast lane: mitochondria structure, dynamics and function in growing pollen tubes. In *JOURNAL OF MICROSCOPY*, 2012, vol.247, no.1, 106., WOS
- [1.1] GAO, Yong-Bin - WANG, Chun-Lei - WU, Ju-You - ZHOU, Hong-Sheng - JIANG, Xue-Ting - WU, Jun - ZHANG, Shao-Ling. Low temperature inhibits pollen tube growth by disruption of both tip-localized reactive oxygen species and endocytosis in *Pyrus bretschneideri* Rehd. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2014, vol. 74, no., pp. 255., WOS
- [1.1] GERBEAU-PISSOT, Patricia - DER, Christophe - THOMAS, Dominique - ANCA, Iulia-Andra - GROSJEAN, Kevin - ROCHE, Yann - PERRIER-CORNET, Jean-Marie - MONGRAND, Sebastien - SIMON-PLAS, Francoise. Modification of Plasma Membrane Organization in Tobacco Cells Elicited by Cryptogein. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2014, vol. 164, no. 1, pp. 273., WOS
- [1.1] HERNANDEZ-BARRERA, Alejandra - QUINTO, Carmen - JOHNSON, Eric A. - WU, Hen-Ming - CHEUNG, Alice Y. - CARDENAS, Luis - CADENAS, E - PACKER, L. Using Hyper as a Molecular Probe to Visualize Hydrogen Peroxide in Living Plant Cells: A Method with Virtually Unlimited Potential in Plant Biology. In *HYDROGEN PEROXIDE AND CELL SIGNALING*, PT B. ISSN 0076-6879, 2013, vol. 527, no., pp. 275., WOS
- [1.1] CHOI, Won-Gyu - SWANSON, Sarah J. - GILROY, Simon. High-resolution imaging of Ca<sup>2+</sup>, redox status, ROS and pH using GFP biosensors. In *PLANT JOURNAL*, 2012, vol.70, no.1, 118., WOS
- [1.1] JIANG, Hongyuan. Dynamic Sorting of Lipids and Proteins in Multicomponent Membranes. In *PHYSICAL REVIEW LETTERS*. ISSN 0031-9007, 2012, vol. 109, no. 19, pp., WOS

- [1.1] KAUR, Gurpreet - SHARMA, Ashutosh - GURUPRASAD, Kunchur - PATI, Pratap Kumar. Versatile roles of plant NADPH oxidases and emerging concepts. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2014, vol. 32, no. 3, pp. 551., WOS
- [1.1] KONOPKA-POSTUPOLSKA, Dorota - CLARK, Greg - HOFMANN, Andreas. Structure, function and membrane interactions of plant annexins: An update. In PLANT SCIENCE, 2011, vol.181, no.3, 230-241., WOS
- [1.1] LAOHAVISIT, Anuphon - SHANG, Zhonglin - RUBIO, Lourdes - CUIN, Tracey A. - VERY, Anne-Alienor - WANG, Aihua - MORTIMER, Jennifer C. - MACPHERSON, Neil - COXON, Katy M. - BATTEY, Nicholas H. - BROWNLEE, Colin - PARK, Ohkmae K. - SENTENAC, Herve - SHABALA, Sergey - WEBB, Alex A. R. - DAVIES, Julia M. Arabidopsis Annexin1 Mediates the Radical-Activated Plasma Membrane Ca<sup>2+</sup>- and K+-Permeable Conductance in Root Cells. In PLANT CELL, 2012, vol.24, no.4, 1522., WOS
- [1.1] LEBORGNE-CASTEL, Nathalie - BOUHIDEL, Karim. Plasma membrane protein trafficking in plant-microbe interactions: a plant cell point of view. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS
- [1.1] LIU, Xiaoning - WU, Jiamei - LIU, Hao - ZONG, Na - ZHAO, Jun. RoGFP1 is a quantitative biosensor in maize cells for cellular redox changes caused by environmental and endogenous stimuli. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2014, vol. 452, no. 3, pp. 503., WOS
- [1.1] LOUCKS, Kyle - WADDELL, David - ROSS, Cliff. Lipopolysaccharides elicit an oxidative burst as a component of the innate immune system in the seagrass Thalassia testudinum. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2013, vol. 70, no., pp. 295., WOS
- [1.1] MALINSKY, Jan - OPEKAROVA, Miroslava - GROSSMANN, Guido - TANNER, Widmar - MERCHANT, SS. Membrane Microdomains, Rafts, and Detergent-Resistant Membranes in Plants and Fungi. In ANNUAL REVIEW OF PLANT BIOLOGY, VOL 64. ISSN 1543-5008, 2013, vol. 64, no., pp. 501., WOS
- [1.1] MARINO, Daniel - ANDRIO, Emilie - DANCHIN, Etienne G. J. - OGER, Elodie - GUCCIARDO, Sebastien - LAMBERT, Annie - PUPPO, Alain - PAULY, Nicolas. A *Medicago truncatula* NADPH oxidase is involved in symbiotic nodule functioning. In NEW PHYTOLOGIST, 2011, vol.189, no.2, 580-592., WOS
- [1.1] MARINO, Daniel - DUNAND, Christophe - PUPPO, Alain - PAULY, Nicolas. A burst of plant NADPH oxidases. In TRENDS IN PLANT SCIENCE, 2012, vol.17, no.1, 9., WOS
- [1.1] MARTINIERE, Alexandre - LAVAGI, Irene - NAGESWARAN, Gayathri - ROLFE, Daniel J. - MANETA-PEYRET, Lilly - DOAN-TRUNG LUU - BOTCHWAY, Stanley W. - WEBB, Stephen E. D. - MONGRAND, Sebastien - MAUREL, Christophe - MARTIN-FERNANDEZ, Marisa L. - KLEINE-VEHN, Juergen - FRIML, Jiri - MOREAU, Patrick - RUNIONS, John. Cell wall constrains lateral diffusion of plant plasma-membrane proteins. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 2012, vol.109, no.31, 12805., WOS
- [1.1] NOIROT, Elodie - DER, Christophe - LHERMINIER, Jeannine - ROBERT, Franck - MORICOVA, Pavla - KIEU, Kien - LEBORGNE-CASTEL,

Nathalie - SIMON-PLAS, Francoise - BOUHIDEL, Karim. Dynamic changes in the subcellular distribution of the tobacco ROS-producing enzyme RBOHD in response to the oomycete elicitor cryptogein. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2014, vol. 65, no. 17, pp. 5011., WOS

- [1.1] OZOLINA, N. V. - NESTERKINA, I. S. - NURMINSKY, V. N. - STEPANOV, A. V. - KOLESNIKOVA, E. V. - GURINA, V. V. - SALYAEV, R. K. Recognition of lipid-protein rafts in vacuolar membrane. In DOKLADY BIOCHEMISTRY AND BIOPHYSICS, 2011, vol.438, no.1, 120-122., WOS
- [1.1] PTOCKY, Martin - PEJCHAR, Premysl - GUTKOWSKA, Malgorzata - JOSE JIMENEZ-QUESADA, Maria - PTOCKA, Andrea - DE DIOS ALCHE, Juan - KOST, Benedikt - ZARSKY, Viktor. NADPH oxidase activity in pollen tubes is affected by calcium ions, signaling phospholipids and Rac/Rop GTPases. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2012, vol. 169, no. 16, pp. 1654., WOS
- [1.1] QIN, Yuan - YANG, Zhenbiao. Rapid tip growth: Insights from pollen tubes. In SEMINARS IN CELL & DEVELOPMENTAL BIOLOGY, 2011, vol.22, no.8, 816-824., WOS
- [1.1] RENNIE, Emilie A. - EBERT, Berit - MILES, Godfrey P. - CAHOON, Rebecca E. - CHRISTIANSEN, Katy M. - STONEBLOOM, Solomon - KHATAB, Hoda - TWELL, David - PETZOLD, Christopher J. - ADAMS, Paul D. - DUPREE, Paul - HEAZLEWOOD, Joshua L. - CAHOON, Edgar B. - SCHELTER, Henrik Vibe. Identification of a Sphingolipid alpha-Glucuronosyltransferase That Is Essential for Pollen Function in Arabidopsis. In PLANT CELL. ISSN 1040-4651, 2014, vol. 26, no. 8, pp. 3314., WOS
- [1.1] SHARFMAN, Miya - BAR, Maya - SCHUSTER, Silvia - LEIBMAN, Meirav - AVNI, Adi. Sterol-Dependent Induction of Plant Defense Responses by a Microbe-Associated Molecular Pattern from Trichoderma viride. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 164, no. 2, pp. 819., WOS
- [1.1] SIMON-PLAS, Francoise - PERRAKI, Artemis - BAYER, Emmanuelle - GERBEAU-PISSOT, Patricia - MONGRAND, Sebastien. An update on plant membrane rafts. In CURRENT OPINION IN PLANT BIOLOGY, 2011, vol.14, no.6, 642-649., WOS
- [1.1] SPERANZA, A. - CRINELLI, R. - SCOCCIANI, V. - GEITMANN, A. Reactive oxygen species are involved in pollen tube initiation in kiwifruit. In PLANT BIOLOGY, 2012, vol.14, no.1, 64., WOS
- [1.1] STEINHORST, Leonie - KUDLA, Joerg. Calcium a central regulator of pollen germination and tube growth. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. ISSN 0167-4889, 2013, vol. 1833, no. 7, pp. 1573., WOS
- [1.1] STEINHORST, Leonie - KUDLA, Joerg. Calcium and Reactive Oxygen Species Rule the Waves of Signaling. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2013, vol. 163, no. 2, pp. 471., WOS
- [1.1] SUZUKI, Nobuhiro - MILLER, Gad - MORALES, Jorge - SHULAEV, Vladimir - ANGEL TORRES, Miguel - MITTLER, Ron. Respiratory burst oxidases: the engines of ROS signaling. In CURRENT OPINION IN PLANT BIOLOGY, 2011, vol.14, no.6, 691-699., WOS
- [1.1] SWANSON, Sarah J. - CHOI, Won-Gyu - CHANOCA, Alexandra - GILROY, Simon. In Vivo Imaging of Ca<sup>2+</sup>, pH, and Reactive Oxygen Species

- Using Fluorescent Probes in Plants. In ANNUAL REVIEW OF PLANT BIOLOGY, VOL 62, 2011, vol.62, no., 273-297., WOS
- [1.1] TAKAHASHI, Daisuke - KAWAMURA, Yukio - UEMURA, Matsuo. Changes of Detergent-Resistant Plasma Membrane Proteins in Oat and Rye during Cold Acclimation: Association with Differential Freezing Tolerance. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4998., WOS
- [1.1] TAKAHASHI, Daisuke - KAWAMURA, Yukio - UEMURA, Matsuo. Detergent-resistant plasma membrane proteome to elucidate microdomain functions in plant cells. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] VASKOVICOVA, Katarina - ZARSKY, Viktor - ROESEL, Daniel - NIKOLIC, Margaret - BUCCIONE, Roberto - CVRCKOVA, Fatima - BRABEK, Jan. Invasive cells in animals and plants: searching for LECA machineries in later eukaryotic life. In BIOLOGY DIRECT. ISSN 1745-6150, 2013, vol. 8, no., pp., WOS
- [1.1] VAUGHAN, Emily M. - YOU, Jae-Sung - YU, Hoi-Ying Elsie - LASEK, Amber - VITALE, Nicolas - HORNBERGER, Troy A. - BEMENT, William M. Lipid domain-dependent regulation of single-cell wound repair. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, 2014, vol. 25, no. 12, pp. 1867., WOS
- [1.1] WANG, Gang-Feng - LI, Wen-Qiang - LI, Wen-Yan - WU, Guo-Li - ZHOU, Cong-Yi - CHEN, Kun-Ming. Characterization of Rice NADPH Oxidase Genes and Their Expression under Various Environmental Conditions. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2013, vol. 14, no. 5, pp. 9440., WOS
- [1.1] ZAUBER, Henrik - BURGOS, Asdrubal - GARAPATI, Prashanth - SCHULZE, Waltraud X. Plasma membrane lipid-protein interactions affect signaling processes in sterol-biosynthesis mutants in *Arabidopsis thaliana*. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS

ADCA86 LIU, Q. - ZHANG, Y. - MATÚŠOVÁ, Radoslava - CHARNIKHOVA, T. - AMINI, M. - JAMIL, M. - FERNANDEZ-APARICIO, M. - HUANG, K. - TIMKO, M.P. - WESTWOOD, J.H. - RUYTER-SPIRA, C. - VAN DER KROL, S. - BOUWMEESTER, H.J. *Striga hermonthica MAX2 restores branching but not the Very Low Fluence Response in the Arabidopsis thaliana max2 mutant*. In *New Phytologist*, 2014, vol. 202, no. 2, p. 531-541. (6.373 - IF2013). (2014 - Current Contents). ISSN 0028-646X.

Ohlasy:

- [1.1] KOLTAI, Hinanit. Implications of non-specific strigolactone signaling in the rhizosphere. In PLANT SCIENCE. ISSN 0168-9452, 2014, vol. 225, no., pp. 9., WOS
- [1.1] KOLTAI, Hinanit. Receptors, repressors, PINs: a playground for strigolactone signaling. In TRENDS IN PLANT SCIENCE. ISSN 1360-1385, 2014, vol. 19, no. 11, pp. 727., WOS
- [1.1] XIONG, Guosheng - WANG, Yonghong - LI, Jiayang - MACHIDA, Y - LIN, C - TAMANOI, F. Action of Strigolactones in Plants. In ENZYMES, VOL 35: SIGNALING PATHWAYS IN PLANTS. ISSN 1874-6047, 2014, vol. 35, no., pp. 57., WOS

[1.2] ALY, Radi - DUBEY, Neeraj Kumar - YAHYAA, Mosaab - ABU-NASSAR, Jackline - IBDAH, Mwafaq. Gene silencing of CCD7 and CCD8 in *Phelipanche aegyptiaca* by tobacco rattle virus system retarded the parasite development on the host. In *Plant Signaling and Behavior*. ISSN 15592316, 2014-05-29, 9, mAY, pp., SCOPUS

ADCA87 MA, Li - XIEB, Lijun - LINC, Guimei - JIANGA, Shuang - CHENA, Houbin - LI, Huaping - TAKÁČ, Tomáš - ŠAMAJ, Jozef - XUA, Chunxiang. Histological changes and differences in activities of some antioxidant enzymes and hydrogen peroxide content during somatic embryogenesis of *Musa AAA* cv. Yueyoukang 1. In *Scientia Horticulturae*, 2012, vol.144, p. 87-92. (1.527 - IF2011). (2012 - Current Contents). ISSN 0304-4238.

Ohlasy:

[1.1] DHIR, Richa - SHEKHAWAT, G. S. - ALAM, Afroz. Improved Protocol for Somatic Embryogenesis and Calcium Alginate Encapsulation in *Anethum graveolens* L.: A Medicinal Herb. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2014, vol. 173, no. 8, pp. 2267., WOS

[1.1] JO, Leonardo - DOS SANTOS, Andre L. W. - BUENO, Caroline A. - BARBOSA, Heloisa R. - FLOH, Eny I. S. Proteomic analysis and polyamines, ethylene and reactive oxygen species levels of *Araucaria angustifolia* (Brazilian pine) embryogenic cultures with different embryogenic potential. In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2014, vol. 34, no. 1, pp. 94., WOS

[1.1] XIE, Hui - HU, Xin - ZHANG, Chun-Rong - CHEN, Yun-Feng - HUANG, Xia - HUANG, Xue-Lin. MOLECULAR CHARACTERIZATION OF A STRESS-RELATED GENE MsTPP IN RELATION TO SOMATIC EMBRYOGENESIS OF ALFALFA. In *PAKISTAN JOURNAL OF BOTANY*. ISSN 0556-3321, 2013, vol. 45, no. 4, pp. 1285., WOS

ADCA88 MATUŠÍKOVÁ, Ildikó - SALAJ, Ján - MORAVČÍKOVÁ, Jana - MLYNÁROVÁ, Ľudmila - NAP, Jan Peter - LIBANTOVÁ, Jana. Tentacles of in vitro-grown round-leaf sundew (*Drosera rotundifolia*L.) show induction of chitinase activity upon mimicking the presence of prey. In *Planta*, 2005, vol. 222, no. 6, p. 1020-1027. ISSN 0032-0935.

Ohlasy:

[1.1] EGAN, Paul A. - VAN DER KOOY, Frank. Phytochemistry of the Carnivorous Sundew Genus *Drosera* (Droseraceae) Future Perspectives and Ethnopharmacological Relevance. In *CHEMISTRY & BIODIVERSITY*. ISSN 1612-1872, 2013, vol. 10, no. 10, pp. 1774., WOS

[1.1] LIBIAKOVA, Michaela - FLOKOVA, Kristyna - NOVAK, Ondrej - SLOVAKOVA, L'udmila - PAVLOVIC, Andrej. Abundance of Cysteine Endopeptidase Dionain in Digestive Fluid of Venus Flytrap (*Dionaea muscipula* Ellis) Is Regulated by Different Stimuli from Prey through Jasmonates. In *PLOS ONE*. ISSN 1932-6203, 2014, vol. 9, no. 8, pp., WOS

[1.1] MITHOEFER, A. - REICHELT, M. - NAKAMURA, Y. Wound and insect-induced jasmonate accumulation in carnivorous *Drosera capensis*: two sides of the same coin. In *PLANT BIOLOGY*. ISSN 1435-8603, 2014, vol. 16, no. 5, pp. 982., WOS

[1.1] NAIDOO, Yougasphree - HENEIDAK, Samia. Morphological investigation of glandular hairs on *Drosera capensis* leaves with an ultrastructural

- study of the sessile glands. In BOTANY-BOTANIQUE. ISSN 1916-2790, 2013, vol. 91, no. 4, pp. 234., WOS
- [1.1] PAVLOVIC, Andrej - KRAUSKO, Miroslav - LIBIAKOVA, Michaela - ADAMEC, Lubomir. Feeding on prey increases photosynthetic efficiency in the carnivorous sundew Drosera capensis. In ANNALS OF BOTANY. ISSN 0305-7364, 2014, vol. 113, no. 1, pp. 69., WOS
- [1.1] RENNER, Tanya - SPECHT, Chelsea D. Inside the trap: gland morphologies, digestive enzymes, and the evolution of plant carnivory in the Caryophyllales. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2013, vol. 16, no. 4, pp. 436., WOS
- [1.2] KRÓL, E. - PŁACHNO, B.J. - ADAMEC, L. - STOLARZ, M. - DZIUBIŃSKA, H. - TREBACZ, K. Quite a few reasons for calling carnivores 'the most wonderful plants in the world'. In Annals of Botany, 2012, 109, 1, pp. 47-64., SCOPUS
- [1.2] RENNER, T. - SPECHT, C.D. Molecular and functional evolution of class i chitinases for plant carnivory in the caryophyllales. In Molecular Biology and Evolution, 2012, 29, 10, pp. 2971-2985., SCOPUS
- [3] Biteau, F. - Bourgaud, F. - Gontier, E. Process for the production of recombinant proteins using carnivorous plants. In EP Patent, 2011, [www.freepatentsonline.com/EP2074216B1.html](http://www.freepatentsonline.com/EP2074216B1.html)
- [3.1] PASZOTA, P.- ESCALANTE-PEREZ, M.- THOMSEN, L. R.- RISØR, M. W.- DEMBSKI, A.- SANGLAS, L.- NIELSEN, T. A.- KARRING, H.- THØGERSEN, I. B.- HEDRICH, R.- ENGHILD, J. J.- KREUZER, I. - SANCCAARD, K. W. Secreted major Venus flytrap chitinase enables digestion of Arthropod prey. In Biochimica et Biophysica Acta (BBA) - Proteins and Proteomics, 2014, 1844, 374-383.

ADCA89 MATÚŠOVÁ, Radoslava - VAN MOURIK, Tom - BOUWEESTER, Harro J. Changes in the sensitivity of parasitic weed seeds to germination stimulants. In *Seed Science Research*, 2004, vol. 14, no. 4, p. 335-344. (1.164 - IF2003). ISSN 0960-2585.

Ohlasy:

- [1.1] ARSLAN, Zubeyde Filiz - UYGUR, Feyzullah Nezihi. Potency of Some Synthetic Stimulants and Root Exudates on the Germination of Phelipanche spp. In TARIM BILIMLERI DERGİSİ-JOURNAL OF AGRICULTURAL SCIENCES. ISSN 1300-7580, 2013, vol. 19, no. 3, pp. 198., WOS
- [1.1] AYONGWA, G. C. - STOMPH, T. J. - BEDER, P. - LEFFELAAR, P. A. - KUYPER, T. W. Organic matter and seed survival of *Striga hermonthica* Mechanisms for seed depletion in the soil. In CROP PROTECTION, 2011, vol.30, no.12, 1594., WOS
- [1.1] BASKIN, Carol C. - BASKIN, Jerry M. Seeds Ecology, Biogeography, and Evolution of Dormancy and Germination Second Edition Introduction. In SEEDS: ECOLOGY, BIOGEOGRAPHY, AND EVOLUTION OF DORMANCY AND GERMINATION, 2ND EDITION, 2014, vol., no., pp. 1., WOS
- [1.1] COHEN, Maja - PRANDI, Cristina - OCCHIATO, Ernesto G. - TABASSO, Silvia - WININGER, Smadar - RESNICK, Nathalie - STEINBERGER, Yosef - KOLTAI, Hinanit - KAPULNIK, Yoram. Structure-Function Relations of Strigolactone Analogs: Activity as Plant

- Hormones and Plant Interactions. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 141., WOS
- [1.1] DOR, Evgenia - JOEL, Daniel M. - KAPULNIK, Yoram - KOLTAI, Hinanit - HERSHENHORN, Joseph. The synthetic strigolactone GR24 influences the growth pattern of phytopathogenic fungi. In PLANTA, 2011, vol.234, no.2, 419., WOS
- [1.1] FERNANDEZ-APARICIO, M. - WESTWOOD, J. H. - RUBIALES, D. Agronomic, breeding, and biotechnological approaches to parasitic plant management through manipulation of germination stimulant levels in agricultural soils. In BOTANY-BOTANIQUE, 2011, vol.89, no.12, 813., WOS
- [1.1] KARAYA, H. - NJOROGE, K. - MUGO, S. - ARIGA, E. S. - KANAMPIU, F. - NDERITU, J. H. Determination of levels of *Striga* germination Stimulants for maize gene bank accessions and elite inbred lines. In INTERNATIONAL JOURNAL OF PLANT PRODUCTION. ISSN 1735-6814, 2012, vol. 6, no. 2, pp. 209., WOS
- [1.1] POUVREAU, Jean-Bernard - GAUDIN, Zachary - AUGER, Bathilde - LECHAT, Marc-Marie - GAUTHIER, Mathieu - DELAVault, Philippe - SIMIER, Philippe. A high-throughput seed germination assay for root parasitic plants. In PLANT METHODS. ISSN 1746-4811, 2013, vol. 9, no., pp., WOS
- [1.1] PRIDER, Jane - WILLIAMS, Anna. Using dazomet to reduce broomrape seed banks in soils with low moisture content. In CROP PROTECTION. ISSN 0261-2194, 2014, vol. 59, no., pp. 43., WOS
- [1.2] ĆAVAR, Sanja - ĆAVAR, Sanja - ZWANENBURG, Binne - ZWANENBURG, Binne - TARKOWSKI, Petr. Strigolactones: occurrence, structure, and biological activity in the rhizosphere. In Phytochemistry Reviews. ISSN 15687767, 2014-06-25, 14, 4, pp. 691-711., SCOPUS
- [1.2] MURDOCH, Alistair J. - KEBREAB, Ermias. Germination ecophysiology. In Parasitic Orobanchaceae: Parasitic Mechanisms and Control Strategies, 2014-01-01, pp. 195-219., SCOPUS

ADCA90 MATÚŠOVÁ, Radoslava - RANI, Kumkum - VERSTAPPEN, Francel W.A. - FRANSSEN, Maurice C.R. - BEALE, Michael H. - BOUWMEESTER, Harro J. The strigolactone germination stimulants of the plant-parasitic *Striga* and *Orobanche* spp. are derived from the carotenoid pathway. In *Plant Physiology*, 2005, vol. 139, no. 2, p. 920-934. (5.881 - IF2004). (2005 - Current Contents). ISSN 0032-0889.

Ohlasy:

- [1.1] AGUSTI, Javier - GREB, Thomas. Going with the wind Adaptive dynamics of plant secondary meristems. In MECHANISMS OF DEVELOPMENT. ISSN 0925-4773, 2013, vol. 130, no. 1, pp. 34., WOS
- [1.1] AL-JANABI, Ali Abdul Hussein S. Determination of antidermatophytic effects of non-steroidal anti-inflammatory drugs on *Trichophyton mentagrophytes* and *Epidermophyton floccosum*. In MYCOSES, 2011, vol.54, no.5, e443., WOS
- [1.1] AROCA, Ricardo - MANUEL RUIZ-LOZANO, Juan - MARIA ZAMARRENO, Angel - ANTONIO PAZ, Jose - MARIA GARCIA-MINA, Jose - JOSE POZO, Maria - ANTONIO LOPEZ-RAEZ, Juan. Arbuscular mycorrhizal symbiosis influences strigolactone production under salinity and alleviates salt stress in lettuce plants. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2013, vol. 170, no. 1, pp. 47., WOS
- [1.1] ARSLAN, Zubeyde Filiz - UYGUR, Feyzullah Nezihi. Potency of

Some Synthetic Stimulants and Root Exudates on the Germination of Phelipanche spp. In TARIM BILIMLERI DERGISI-JOURNAL OF AGRICULTURAL SCIENCES. ISSN 1300-7580, 2013, vol. 19, no. 3, pp. 198., WOS

- [1.1] ASAMI, Tadao - ITO, Shinsaku. Design and Synthesis of Function Regulators of Plant Hormones and their Application to Physiology and Genetics. In JOURNAL OF SYNTHETIC ORGANIC CHEMISTRY JAPAN. ISSN 0037-9980, 2012, vol. 70, no. 1, pp. 36., WOS
- [1.1] BOYER, Francois-Didier - GERMAIN, Alexandre de Saint - PILLOT, Jean-Paul - POUVREAU, Jean-Bernard - CHEN, Victor Xiao - RAMOS, Suzanne - STEVENIN, Arnaud - SIMIER, Philippe - DELAVAL, Philippe - BEAU, Jean-Marie - RAMEAU, Catherine. Structure-Activity Relationship Studies of Strigolactone-Related Molecules for Branching Inhibition in Garden Pea: Molecule Design for Shoot Branching. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2012, vol. 159, no. 4, pp. 1524., WOS
- [1.1] BREWER, Philip B. - KOLTAI, Hinanit - BEVERIDGE, Christine A. Diverse Roles of Strigolactones in Plant Development. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 18., WOS
- [1.1] CAZZONELLI, Christopher I. Carotenoids in nature: insights from plants and beyond. In FUNCTIONAL PLANT BIOLOGY, 2011, vol.38, no.11, 833., WOS
- [1.1] COHEN, Maja - PRANDI, Cristina - OCCHIATO, Ernesto G. - TABASSO, Silvia - WININGER, Smadar - RESNICK, Nathalie - STEINBERGER, Yosef - KOLTAI, Hinanit - KAPULNIK, Yoram. Structure-Function Relations of Strigolactone Analogs: Activity as Plant Hormones and Plant Interactions. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 141., WOS
- [1.1] CUTTRISS, Abby J. - CAZZONELLI, Christopher I. - WURTZEL, Eleanore T. - POGSON, Barry J. - REBEILLE, F - DOUCE, R. Carotenoids. In BIOSYNTHESIS OF VITAMINS IN PLANTS: VITAMINS A, B1, B2, B3, B5, PT A, 2011, vol.58, no., 1., WOS
- [1.1] CZARNECKI, Olaf - YANG, Jun - WESTON, David J. - TUSKAN, Gerald A. - CHEN, Jin-Gui. A Dual Role of Strigolactones in Phosphate Acquisition and Utilization in Plants. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2013, vol. 14, no. 4, pp. 7681., WOS
- [1.1] DELAUX, Pierre-Marc - NANDA, Amrit Kaur - MATHE, Catherine - SEJALON-DELMAS, Nathalie - DUNAND, Christophe. Molecular and biochemical aspects of plant terrestrialization. In PERSPECTIVES IN PLANT ECOLOGY EVOLUTION AND SYSTEMATICS. ISSN 1433-8319, 2012, vol. 14, no. 1, pp. 49., WOS
- [1.1] DELAUX, Pierre-Marc - XIE, Xiaonan - TIMME, Ruth E. - PUECH-PAGES, Virginie - DUNAND, Christophe - LECOMPTE, Emilie - DELWICHE, Charles F. - YONEYAMA, Koichi - BECARD, Guillaume - SEJALON-DELMAS, Nathalie. Origin of strigolactones in the green lineage. In NEW PHYTOLOGIST. ISSN 0028-646X, 2012, vol. 195, no. 4, pp. 857., WOS
- [1.1] DOR, Evgenia - JOEL, Daniel M. - KAPULNIK, Yoram - KOLTAI, Hinanit - HERSHENHORN, Joseph. The synthetic strigolactone GR24 influences the growth pattern of phytopathogenic fungi. In PLANTA, 2011, vol.234, no.2, 419., WOS

- [1.1] Feng, Dan. - Chen, Gui-lin. Shoot-branching control with strigolactones: Research progress. In *Shengtaixue Zazhi*, 2011, vol.30, no.2, p. 349-356., WOS
- [1.1] FERNANDEZ-APARICIO, M. - WESTWOOD, J. H. - RUBIALES, D. Agronomic, breeding, and biotechnological approaches to parasitic plant management through manipulation of germination stimulant levels in agricultural soils. In *BOTANY-BOTANIQUE*, 2011, vol.89, no.12, 813., WOS
- [1.1] FOO, Eloise - REID, James B. Strigolactones: New Physiological Roles for an Ancient Signal. In *JOURNAL OF PLANT GROWTH REGULATION*. ISSN 0721-7595, 2013, vol. 32, no. 2, pp. 429., WOS
- [1.1] FOO, E. Auxin influences strigolactones in pea mycorrhizal symbiosis. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2013, vol. 170, no. 5, pp. 523., WOS
- [1.1] GARG, Neera - CHANDEL, Shikha - LICHTFOUSE, E - HAMELIN, M - NAVARRETE, M - DEBAEKE, P. Arbuscular Mycorrhizal Networks: Process and Functions. In *SUSTAINABLE AGRICULTURE, VOL 2*, 2011, vol., no., 907., WOS
- [1.1] GE, Xiuxiu - CHEN, Hongwei - WANG, Hongli - SHI, Aiping - LIU, Kefeng. De Novo Assembly and Annotation of *Salvia splendens* Transcriptome Using the Illumina Platform. In *PLOS ONE*. ISSN 1932-6203, 2014, vol. 9, no. 3, pp., WOS
- [1.1] GLAS, Joris J. - SCHIMMEL, Bernardus C. J. - ALBA, Juan M. - ESCOBAR-BRAVO, Rocio - SCHUURINK, Robert C. - KANT, Merijn R. Plant Glandular Trichomes as Targets for Breeding or Engineering of Resistance to Herbivores. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2012, vol. 13, no. 12, pp. 17077., WOS
- [1.1] GROBBELAAR, Maria C. - MAKUNGA, Nokwanda P. - STANDER, Marietjie A. - KOSSMANN, Jens - HILLS, Paul N. Effect of strigolactones and auxins on growth and metabolite content of *Sutherlandia frutescens* (L.) R. Br. microplants in vitro. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2014, vol. 117, no. 3, pp. 401., WOS
- [1.1] GUAN, Jiahn Chou - KOCH, Karen E. - SUZUKI, Masaharu - WU, Shan - LATSHAW, Susan - PETRUFF, Tanya - GOULET, Charles - KLEE, Harry J. - MCCARTY, Donald R. Diverse Roles of Strigolactone Signaling in Maize Architecture and the Uncoupling of a Branching-Specific Subnetwork. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2012, vol. 160, no. 3, pp. 1303., WOS
- [1.1] HABETS, Myckel E. J. - OFFRINGA, Remko. PIN-driven polar auxin transport in plant developmental plasticity: a key target for environmental and endogenous signals. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2014, vol. 203, no. 2, pp. 362., WOS
- [1.1] HAICHAR, Feth el Zahar - SANTAELLA, Catherine - HEULIN, Thierry - ACHOUAK, Wafa. Root exudates mediated interactions belowground. In *SOIL BIOLOGY & BIOCHEMISTRY*. ISSN 0038-0717, 2014, vol. 77, no., pp. 69., WOS
- [1.1] HEATH, Jeremy J. - CIPOLLINI, Don F. - STIREMAN, John O. The role of carotenoids and their derivatives in mediating interactions between insects and their environment. In *ARTHROPOD-PLANT INTERACTIONS*. ISSN 1872-8855, 2013, vol. 7, no. 1, pp. 1., WOS
- [1.1] HEMMERLIN, Andrea - HARWOOD, John L. - BACH, Thomas J. A

- raison d'être for two distinct pathways in the early steps of plant isoprenoid biosynthesis? In PROGRESS IN LIPID RESEARCH. ISSN 0163-7827, 2012, vol. 51, no. 2, pp. 95., WOS
- [1.1] HOCK, Bertold - MORTE, A - VARMA, A. Adventitious Root Development in Ornamental Plants: Insights from Carnation Stem Cuttings. In ROOT ENGINEERING: BASIC AND APPLIED CONCEPTS. ISSN 1613-3382, 2014, vol. 40, no., pp. 423., WOS
- [1.1] HOCK, Bertold - MORTE, A - VARMA, A. Strigolactones Involvement in Root Development and Communications. In ROOT ENGINEERING: BASIC AND APPLIED CONCEPTS. ISSN 1613-3382, 2014, vol. 40, no., pp. 203., WOS
- [1.1] CHEN, Victor X. - BOYER, Francois-Didier - RAMEAU, Catherine - PILLOT, Jean-Paul - VORS, Jean-Pierre - BEAU, Jean-Marie. New Synthesis of A-Ring Aromatic Strigolactone Analogues and Their Evaluation as Plant Hormones in Pea (*Pisum sativum*). In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2013, vol. 19, no. 15, pp. 4849., WOS
- [1.1] CHOJNACKA, Kinga - SANTORO, Stefano - AWARTANI, Radi - RICHARDS, Nigel G. J. - HIMO, Fahmi - APONICK, Aaron. Synthetic studies on the solanacol ABC ring system by cation-initiated cascade cyclization: implications for strigolactone biosynthesis. In ORGANIC & BIOMOLECULAR CHEMISTRY, 2011, vol.9, no.15, 5350., WOS
- [1.1] JOEL, Daniel M. - CHAUDHURI, Swapan K. - PLAKHINE, Dina - ZIADNA, Hammam - STEFFENS, John C. Dehydrocostus lactone is exuded from sunflower roots and stimulates germination of the root parasite *Orobanche cumana*. In PHYTOCHEMISTRY, 2011, vol.72, no.7, 624., WOS
- [1.1] KAGIYAMA, Megumi - HIRANO, Yoshinori - MORI, Tomoyuki - KIM, Sun-Yong - KYOZUKA, Junko - SETO, Yoshiya - YAMAGUCHI, Shinjiro - HAKOSHIMA, Toshio. Structures of D14 and D14L in the strigolactone and karrikin signaling pathways. In GENES TO CELLS. ISSN 1356-9597, 2013, vol. 18, no. 2, pp. 147., WOS
- [1.1] KAPULNIK, Yoram - DELAUX, Pierre-Marc - RESNICK, Natalie - MAYZLISH-GATI, Einav - WININGER, Smadar - BHATTACHARYA, Chaitali - SEJALON-DELMAS, Nathalie - COMBIER, Jean-Philippe - BECARD, Guillaume - BELAUSOV, Eduard - BEECKMAN, Tom - DOR, Evgenia - HERSHENHORN, Joseph - KOLTAI, Hinanit. Strigolactones affect lateral root formation and root-hair elongation in *Arabidopsis*. In PLANTA, 2011, vol.233, no.1, 209., WOS
- [1.1] KAPULNIK, Yoram - KOLTAI, Hinanit. Strigolactone Involvement in Root Development, Response to Abiotic Stress, and Interactions with the Biotic Soil Environment. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 166, no. 2, pp. 560., WOS
- [1.1] KARAYA, H. - NJOROGE, K. - MUGO, S. - ARIGA, E. S. - KANAMPIU, F. - NDERITU, J. H. Determination of levels of *Striga* germination Stimulants for maize gene bank accessions and elite inbred lines. In INTERNATIONAL JOURNAL OF PLANT PRODUCTION. ISSN 1735-6814, 2012, vol. 6, no. 2, pp. 209., WOS
- [1.1] KIRILOVA, Ina - DENEV, Iliya D. - BINEVA, Rumyana - GEVEZOVA, Maria - ALEXANDROVA, Milena - KOSTOV, Kaloyan - BATCHVAROVA, Rossitza. Identification of activation-tag *Arabidopsis* mutants with altered production of germination stimulants for *Phelipanche ramosa* (L.). In

- BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT. ISSN 1310-2818, 2014, vol. 28, no. 2, pp. 199., WOS
- [1.1] KOHLEN, Wouter - CHARNIKHOVA, Tatsiana - LIU, Qing - BOURS, Ralph - DOMAGALSKA, Malgorzata A. - BEGUERIE, Sebastien - VERSTAPPEN, Francel - LEYSER, Ottoline - BOUWMEESTER, Harro - RUYTER-SPIRA, Carolien. Strigolactones Are Transported through the Xylem and Play a Key Role in Shoot Architectural Response to Phosphate Deficiency in Nonarbuscular Mycorrhizal Host Arabidopsis. In *PLANT PHYSIOLOGY*, 2011, vol.155, no.2, 974., WOS
- [1.1] KOLTAI, Hinanit - COHEN, Maja - CHESIN, Ori - MAYZLISH-GATI, Einav - BECARD, Guillaume - PUECH, Virginie - BEN DOR, Bruria - RESNICK, Natalie - WININGER, Smadar - KAPULNIK, Yoram. Light is a positive regulator of strigolactone levels in tomato roots. In *JOURNAL OF PLANT PHYSIOLOGY*, 2011, vol.168, no.16, 1993., WOS
- [1.1] KOLTAI, Hinanit. Implications of non-specific strigolactone signaling in the rhizosphere. In *PLANT SCIENCE*. ISSN 0168-9452, 2014, vol. 225, no., pp. 9., WOS
- [1.1] KOLTAI, Hinanit. Strigolactones activate different hormonal pathways for regulation of root development in response to phosphate growth conditions. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2013, vol. 112, no. 2, pp. 409., WOS
- [1.1] KOREN, Dikla - RESNICK, Nathalie - GATI, Einav Mayzlish - BELAUSOV, Eduard - WEININGER, Smadar - KAPULNIK, Yoram - KOLTAI, Hinanit. Strigolactone signaling in the endodermis is sufficient to restore root responses and involves SHORT HYPOCOTYL 2 (SHY2) activity. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2013, vol. 198, no. 3, pp. 866., WOS
- [1.1] LIN, Lan - TAN, Ren Xiang. Cross-Kingdom Actions of Phytohormones: A Functional Scaffold Exploration. In *CHEMICAL REVIEWS*, 2011, vol.111, no.4, 2734., WOS
- [1.1] LIU, Junwei - LOVISOLI, Claudio - SCHUBERT, Andrea - CARDINALE, Francesca. Signaling role of Strigolactones at the interface between plants, (micro)organisms, and a changing environment. In *JOURNAL OF PLANT INTERACTIONS*. ISSN 1742-9145, 2013, vol. 8, no. 1, pp. 17., WOS
- [1.1] LIU, Shuoqian - TIAN, Na - LIU, Zhonghua - HUANG, Jianan - LI, Juan - TAN, B. Cloning and Characterization of a Carotenoid Cleavage Dioxygenase from *Artemisia Annua* L. In *MECHANICAL ENGINEERING AND MATERIALS SCIENCE*. ISSN 1660-9336, 2012, vol. 108, no., pp. 274., WOS
- [1.1] LI, Zhou - CZARNECKI, Olaf - CHOUREY, Karuna - YANG, Jun - TUSKAN, Gerald A. - HURST, Gregory B. - PAN, Chongle - CHEN, Jin-Gui. Strigolactone-Regulated Proteins Revealed by iTRAQ-Based Quantitative Proteomics in Arabidopsis. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2014, vol. 13, no. 3, pp. 1359., WOS
- [1.1] LOPEZ-RAEZ, Juan A. - POZO, Maria J. - AROCA, R. Chemical Signalling in the Arbuscular Mycorrhizal Symbiosis: Biotechnological Applications. In *SYMBIOTIC ENDOPHYTES*. ISSN 1613-3382, 2013, vol. 37, no., pp. 215., WOS
- [1.1] LUO, Shi-Hong - HUGELSHOFER, Cedric L. - HUA, Juan - JING, Shu-Xi - LI, Chun-Huan - LIU, Yan - LI, Xiao-Nian - ZHAO, Xu - MAGAUER, Thomas - LI, Sheng-Hong. Unraveling the Metabolic Pathway in Leucosceptrum

- canum by Isolation of New Defensive Leucosceptroid Degradation Products and Biomimetic Model Synthesis. In *ORGANIC LETTERS*. ISSN 1523-7060, 2014, vol. 16, no. 24, pp. 6416., WOS
- [1.1] MARZEC, Marek - MUSZYNSKA, Aleksandra. STRIGOLACTONES NEW CANDIDATES FOR PLANT HORMONES. In *POSTE PY BIOLOGII KOMORKI*. ISSN 0324-833X, 2012, vol. 39, no. 1, pp. 63., WOS
- [1.1] MARZEC, Marek - MUSZYNSKA, Aleksandra - GRUSZKA, Damian. The Role of Strigolactones in Nutrient-Stress Responses in Plants. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2013, vol. 14, no. 5, pp. 9286., WOS
- [1.1] MATSUMIYA, Yoshiki - TANIGUCHI, Rikiya - KUBO, Motoki. Analysis of peptide uptake and location of root hair-promoting peptide accumulation in plant roots. In *JOURNAL OF PEPTIDE SCIENCE*. ISSN 1075-2617, 2012, vol. 18, no. 3, pp. 177., WOS
- [1.1] MAYZLISH-GATI, Einav - DE-CUYPER, Carolien - GOORMACHTIG, Sofie - BEECKMAN, Tom - VUYLSTEKE, Marnik - BREWER, Philip B. - BEVERIDGE, Christine A. - YERMIYAHU, Uri - KAPLAN, Yulia - ENZER, Yael - WININGER, Smadar - RESNICK, Natalie - COHEN, Maja - KAPULNIK, Yoram - KOLTAI, Hinanit. Strigolactones Are Involved in Root Response to Low Phosphate Conditions in *Arabidopsis*. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2012, vol. 160, no. 3, pp. 1329., WOS
- [1.1] MILLER, J. Benjamin - OLDROYD, Giles E. D. - PEROTTO, S. The Role of Diffusible Signals in the Establishment of Rhizobial and Mycorrhizal Symbioses. In *SIGNALING AND COMMUNICATION IN PLANT SYMBIOSIS*. ISSN 1867-9048, 2012, vol., no., pp. 1., WOS
- [1.1] MIRANSARI, Mohammad - ABRISHAMCHI, A. - KHOSHBAKHT, K. - NIKNAM, V. Plant hormones as signals in arbuscular mycorrhizal symbiosis. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2014, vol. 34, no. 2, pp. 123., WOS
- [1.1] MIRANSARI, Mohammad. Interactions between arbuscular mycorrhizal fungi and soil bacteria. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*, 2011, vol.89, no.4, 917., WOS
- [1.1] MOTONAMI, Noriko - UENO, Kotomi - NAKASHIMA, Hitomi - NOMURA, Saki - MIZUTANI, Masaharu - TAKIKAWA, Hirosato - SUGIMOTO, Yukihiro. The bioconversion of 5-deoxystrigol to sorgomol by the sorghum, *Sorghum bicolor* (L.) Moench. In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2013, vol. 93, no., pp. 41., WOS
- [1.1] NAKAMURA, Hidemitsu - ASAMI, Tadao. Target sites for chemical regulation of strigolactone signaling. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS
- [1.1] PICKETT, John A. - HOOPER, Antony M. Delivering resistance to a major constraint for rain-fed rice production. In *NEW PHYTOLOGIST*, 2011, vol.192, no.4, 792., WOS
- [1.1] PROUST, Helene - HOFFMANN, Beate - XIE, Xiaonan - YONEYAMA, Kaori - SCHAEFER, Didier G. - YONEYAMA, Koichi - NOGUE, Fabien - RAMEAU, Catherine. Strigolactones regulate protonema branching and act as a quorum sensing-like signal in the moss *Physcomitrella patens*. In *DEVELOPMENT*, 2011, vol.138, no.8, 1531., WOS
- [1.1] RASMUSSEN, Amanda - MASON, Michael Glenn - DE CUYPER,

- Carolien - BREWER, Philip B. - HEROLD, Silvia - AGUSTI, Javier - GEELEN, Danny - GREB, Thomas - GOORMACHTIG, Sofie - BEECKMAN, Tom - BEVERIDGE, Christine Anne. Strigolactones Suppress Adventitious Rooting in *Arabidopsis* and Pea. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2012, vol. 158, no. 4, pp. 1976., WOS
- [1.1] RASMUSSEN, Amanda - HEUGEBAERT, Thomas - MATTHYS, Cedrick - VAN DEUN, Rik - BOYER, Francois-Didier - GOORMACHTIG, Sofie - STEVENS, Christian - GEELEN, Danny. A Fluorescent Alternative to the Synthetic Strigolactone GR24. In *MOLECULAR PLANT*. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 100., WOS
- [1.1] ROOSE, Johnna L. - FRANKEL, Laurie K. - BRICKER, Terry M. Developmental Defects in Mutants of the PsbP Domain Protein 5 in *Arabidopsis thaliana*. In *PLOS ONE*, 2011, vol.6, no.12., WOS
- [1.1] SABBAGH, Seyed Kazem - MAZAHERI, Mahta - PANJEHKEH, Naser - SALARI, Mohammed. Transcriptomic analysis of *Sporisorium reilianum* in response to the strigolactone analogue GR24. In *PHYTOPATHOLOGIA MEDITERRANEA*. ISSN 0031-9465, 2012, vol. 51, no. 2, pp. 283., WOS
- [1.1] SATISH, Kanuganti - GUTEMA, Zenbaba - GRENIER, Cecile - RICH, Patrick J. - EJETA, Gebisa. Molecular tagging and validation of microsatellite markers linked to the low germination stimulant gene (lgs) for *Striga* resistance in sorghum [*Sorghum bicolor* (L.) Moench]. In *THEORETICAL AND APPLIED GENETICS*. ISSN 0040-5752, 2012, vol. 124, no. 6, pp. 989., WOS
- [1.1] SETO, Yoshiya - KAMEOKA, Hiromu - YAMAGUCHI, Shinjiro - KYOZUKA, Junko. Recent Advances in Strigolactone Research: Chemical and Biological Aspects. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2012, vol. 53, no. 11, pp. 1843., WOS
- [1.1] SETO, Yoshiya - SADO, Aika - ASAMI, Kei - HANADA, Atsushi - UMEHARA, Mikihisa - AKIYAMA, Kohki - YAMAGUCHI, Shinjiro. Carlactone is an endogenous biosynthetic precursor for strigolactones. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2014, vol. 111, no. 4, pp. 1640., WOS
- [1.1] SETO, Yoshiya - YAMAGUCHI, Shinjiro. Strigolactone biosynthesis and perception. In *CURRENT OPINION IN PLANT BIOLOGY*. ISSN 1369-5266, 2014, vol. 21, no., pp. 1., WOS
- [1.1] SHI, Yanmei - WANG, Ran - LUO, Zhaopeng - JIN, Lifeng - LIU, Pingping - CHEN, Qiansi - LI, Zefeng - LI, Feng - WEI, Chunyang - WU, Mingzhu - WEI, Pan - XIE, He - QU, Lingbo - LIN, Fucheng - YANG, Jun. Molecular Cloning and Functional Characterization of the Lycopene epsilon-Cyclase Gene via Virus-Induced Gene Silencing and Its Expression Pattern in *Nicotiana tabacum*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2014, vol. 15, no. 8, pp. 14766., WOS
- [1.1] SCHMITZ, Alexa M. - HARRISON, Maria J. Signaling events during initiation of arbuscular mycorrhizal symbiosis. In *JOURNAL OF INTEGRATIVE PLANT BIOLOGY*. ISSN 1672-9072, 2014, vol. 56, no. 3, pp. 250., WOS
- [1.1] SU, Ying Hua - SU, Yu Xiao - LIU, Ying Gao - ZHANG, Xian Sheng. Abscisic acid is required for somatic embryo initiation through mediating spatial auxin response in *Arabidopsis*. In *PLANT GROWTH REGULATION*. ISSN

- 0167-6903, 2013, vol. 69, no. 2, pp. 167., WOS
- [1.1] TANAKA, Masashi - SUGIMOTO, Yukihiro - KUSE, Masaki - TAKIKAWA, Hirosato. Synthesis of 7-Oxo-5-deoxystrigol, a 7-Oxygenated Strigolactone Analog. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2013, vol. 77, no. 4, pp. 832., WOS
- [1.1] TORRES-VERA, Rocio - GARCIA, Juan M. - POZO, Maria J. - LOPEZ-RAEZ, Juan A. Do strigolactones contribute to plant defence? In MOLECULAR PLANT PATHOLOGY. ISSN 1464-6722, 2014, vol. 15, no. 2, pp. 211., WOS
- [1.1] TWANABASU, Bishnu R. - STEVENS, Kevin J. - VENABLES, Barney J. The effects of triclosan on spore germination and hyphal growth of the arbuscular mycorrhizal fungus Glomus intraradices. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2013, vol. 454, no., pp. 51., WOS
- [1.1] UENO, Kotomi - FURUMOTO, Toshio - UMEDA, Shuhei - MIZUTANI, Masaharu - TAKIKAWA, Hirosato - BATCHEVAROVA, Rossitza - SUGIMOTO, Yukihiro. Heliolactone, a non-sesquiterpene lactone germination stimulant for root parasitic weeds from sunflower. In PHYTOCHEMISTRY. ISSN 0031-9422, 2014, vol. 108, no., pp. 122., WOS
- [1.1] UMEHARA, Mikihsa. Strigolactone, a key regulator of nutrient allocation in plants. In PLANT BIOTECHNOLOGY, 2011, vol.28, no.5, 429., WOS
- [1.1] VALADARES, R. B. S. - PEROTTO, S. - SANTOS, E. C. - LAMBAIS, M. R. Proteome changes in Oncidium sphacelatum (Orchidaceae) at different trophic stages of symbiotic germination. In MYCORRHIZA. ISSN 0940-6360, 2014, vol. 24, no. 5, pp. 349., WOS
- [1.1] VAN NORMAN, Jaimie M. - ZHANG, Jingyuan - CAZZONELLI, Christopher I. - POGSON, Barry J. - HARRISON, Peter J. - BUGG, Timothy D. H. - CHAN, Kai Xun - THOMPSON, Andrew J. - BENFEY, Philip N. Periodic root branching in Arabidopsis requires synthesis of an uncharacterized carotenoid derivative. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2014, vol. 111, no. 13, pp. E1300., WOS
- [1.1] VURRO, Maurizio - YONEYAMA, Koichi. Strigolactonesuntriguing biologically active compounds: perspectives for deciphering their biological role and for proposing practical application. In PEST MANAGEMENT SCIENCE. ISSN 1526-498X, 2012, vol. 68, no. 5, pp. 664., WOS
- [1.1] WALTER, Michael H. - STRACK, Dieter. Carotenoids and their cleavage products: Biosynthesis and functions. In NATURAL PRODUCT REPORTS, 2011, vol.28, no.4, 663., WOS
- [1.1] WANG, R. K. - LU, J. J. - XING, G. N. - GAI, J. Y. - ZHAO, T. J. Molecular evolution of two consecutive carotenoid cleavage dioxygenase genes in strigolactone biosynthesis in plants. In GENETICS AND MOLECULAR RESEARCH, 2011, vol.10, no.4, 3664., WOS
- [1.1] YONEYAMA, Kaori - XIE, Xiaonan - KISUGI, Takaya - NOMURA, Takahito - SEKIMOTO, Hitoshi - YOKOTA, Takao - YONEYAMA, Koichi. Characterization of strigolactones exuded by Asteraceae plants. In PLANT GROWTH REGULATION, 2011, vol.65, no.3, 495., WOS
- [1.1] ZWANENBURG, Binne - POSPISIL, Tomas. Structure and Activity of Strigolactones: New Plant Hormones with a Rich Future. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 38., WOS

- [1.2] AL-JANABI, A.A.H.S. Investigation of anti-dermatophytic effects of non-steroidal anti-inflammatory drugs on *Trichophyton mentagrophytes* and *Epidermophyton floccosum*. In Iranian Journal of Pharmaceutical Research, 2011, vol.10, no.3, 547-552., SCOPUS
- [1.2] ĆAVAR, Sanja - ĆAVAR, Sanja - ZWANENBURG, Binne - ZWANENBURG, Binne - TARKOWSKI, Petr. Strigolactones: occurrence, structure, and biological activity in the rhizosphere. In Phytochemistry Reviews. ISSN 15687767, 2014-06-25, 14, 4, pp. 691-711., SCOPUS
- [1.2] ESTEP, M.C. - VAN MOURIK, T.A. - MUTH, P. - GUINDO, D. - PARZIES, H.K. - KOITA, O.A. - WELTZIEN, E. - BENNETZEN, J.L. Genetic Diversity of a Parasitic Weed, *Striga hermonthica*, on Sorghum and Pearl Millet in Mali. In Tropical Plant Biology, 2011, vol.4, no.2, 91-98., SCOPUS
- [1.2] FORMEY, D. - JOURDA, C. - ROUX, C. - DELAUX, P.-M. What the Genomics of Arbuscular Mycorrhizal Symbiosis Teaches Us about Root Development. In Root Genomics and Soil Interactions, 2012, pp. 171-188., SCOPUS
- [1.2] IBDAH, Mwafaq - DUBEY, Neeraj Kumar - EIZENBERG, Hanan - DABOUR, Ziad - ABU-NASSAR, Jacklin - GAL-ON, Amit - ALY, Radi. Cucumber Mosaic Virus as a carotenoid inhibitor reducing *Phelipanche aegyptiaca* infection in tobacco plants. In Plant Signaling and Behavior. ISSN 15592316, 2014-12-22, 9, 10, pp. 1-6., SCOPUS
- [1.2] KHAN, Z.R. - MIDEGA, C.A.O. - PITTCHEAR, J. - BRUCE, T.J.A. - PICKETT, J.A. 'Push-Pull' Revisited: The Process of Successful Deployment of a Chemical Ecology Based Pest Management Tool. In Biodiversity and Insect Pests: Key Issues for Sustainable Management, 2012, pp. 259-275., SCOPUS
- [1.2] KOLTAI, Hinanit - PRANDI, Cristina. Strigolactones: Biosynthesis, synthesis and functions in plant growth and stress responses. In Phytohormones: A Window to Metabolism, Signaling and Biotechnological Applications, 2014-07-01, pp. 265-288., SCOPUS
- [1.2] KOLTAI, Hinanit. Receptors, repressors, PINs: A playground for strigolactone signaling. In Trends in Plant Science. ISSN 13601385, 2014-01-01, 19, 11, pp. 727-733., SCOPUS
- [1.2] KOLTAI, H. - KAPULNIK, Y. Strigolactones as mediators of plant growth responses to environmental conditions. In Plant Signaling and Behavior, 2011, vol.6, no.1., SCOPUS
- [1.2] LOPES, Francis Julio Fagundes - DE CARLI POELKIN, Viviane Guzzo. Advances in methods to improve the sugarcane crop as energy cane for biorefinery: An appraisal. In Biofuels in Brazil: Fundamental Aspects, Recent Developments, and Future Perspectives, 2014-01-01, pp. 125-150., SCOPUS
- [1.2] RAMOS, A.C. - FAÇANHA, A.R. - PALMA, L.M. - OKOROKOV, L.A. - CRUZ, Z.M.A. - SILVA, A.G. - SIQUEIRA, A.F. - BERTOLAZI, A.A. - CANTON, G.C. - MELO, J. - SANTOS, W.O. - SCHIMITBERGER, V.M.B. - OKOROKOVA-FAÇANHA, A.L. An outlook on ion signaling and ionome of mycorrhizal symbiosis. In Brazilian Journal of Plant Physiology, 2011, vol.23, no.1, 79-89., SCOPUS
- [1.2] RASMUSSEN, A. - BEVERIDGE, C.A. - GEELEN, D. Inhibition of strigolactones promotes adventitious root formation. In Plant Signaling and Behavior, 2012, 7, 6, pp. 694-697., SCOPUS
- [1.2] THOROGOOD, Chris J. - HISCOCK, Simon J. Host specificity and speciation in parasitic plants. In Phylogeography: Concepts, Intraspecific Patterns

and Speciation Processes, 2013-12-01, pp. 57-79., SCOPUS

[1.2] YANG, Yongxia - NIU, Zhiqiang - ZHANG, Songtao - CUI, Hong - LIU, Guoshun. Cloning and expression of gene CCD1 critical to cleavage of tobacco carotenoid. In *Acta Tabacaria Sinica*. ISSN 10045708, 2014-01-01, 20, 1, pp. 84-89., SCOPUS

[1.2] YUAN, Shoujiang - WANG, Tao - YIN, Liang - ZHAO, Jinfeng - WAN, Jian-Min - LI, Xueyong. Cloning and expression of gene responsible for high-tillering dwarf phenotype in indica rice mutant gsor23. In *Rice Science*. ISSN 16726308, 2013-09-01, 20, 5, pp. 320-328., SCOPUS

ADCA91 MÉSZÁROS, Patrik - RYBANSKÝ, A. - HAUPTVOGEL, Pavel - KUNA, Roman - LIBANTOVÁ, Jana - MORAVČÍKOVÁ, Jana - PIRŠELOVÁ, Beáta - TIRPÁKOVÁ, A. - MATUŠÍKOVÁ, Ildikó. Cultivar-specific kinetics of chitinase induction in soybean roots during exposure to arsenic. In *Molecular Biology Reports*, 2013, vol.40, no. 3, p. 2127-2138. (2.506 - IF2012). (2013 - Current Contents). ISSN 0301-4851.

Ohlasy:

[1.2] CLETUS, Jean - BALASUBRAMANIAN, Vaiyapuri - VASHISHT, Divya - SAKTHIVEL, Natarajan R. Transgenic expression of plant chitinases to enhance disease resistance. In *Biotechnology Letters*. ISSN 01415492, 2013-11-01, 35, 11, pp. 1719-1732., SCOPUS

ADCA92 MIERNYK, Jan - PREŤOVÁ, Anna - OLMEDILLA, Adela - KLUBICOVÁ, Katarína - OBERT, Bohuš - HAJDUCH, Martin. Using proteomics to study sexual reproduction in angiosperms. In *Sexual Plant Reproduction*, 2011, vol. 24, no. 1, p. 9-22. (2.680 - IF2010). (2011 - Current Contents). ISSN 0934-0882.

Ohlasy:

[1.1] TAKAC, Tomas - PECHAN, Tibor - SAMAJ, Jozef. Differential proteomics of plant development. In *JOURNAL OF PROTEOMICS*, 2011, vol.74, no.5, 577., WOS

[1.1] VALLEDOR, Luis - MENENDEZ, Virginia - JESUS CANAL, Maria - REVILLA, Angeles - FERNANDEZ, Helena. Proteomic approaches to sexual development mediated by antheridiogen in the fern Blechnum spicant L. In *PROTEOMICS*. ISSN 1615-9853, 2014, vol. 14, no. 17-18, pp. 2061., WOS

ADCA93 MIERNYK, Jan A. - HAJDUCH, Martin. Seed proteomics. In *Journal of Proteomics*, 2011, vol. 74, no. 4, p. 389-400. (5.074 - IF2010). (2011 - Current Contents). ISSN 1874-3919.

Ohlasy:

[1.1] AGRAWAL, Ganesh Kumar - PEDRESCHI, Romina - BARKLA, Bronwyn J. - BINDSCHEDLER, Laurence Veronique - CRAMER, Rainer - SARKAR, Abhijit - RENAUT, Jenny - JOB, Dominique - RAKWAL, Randeep. Translational plant proteomics: A perspective. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2012, vol. 75, no. 15, pp. 4588., WOS

[1.1] BARACAT-PEREIRA, Maria Cristina - BARBOSA, Meire de Oliveira - MAGALHAES JUNIOR, Marcos Jorge - CARRIJO, Lanna Clicia - GAMES, Patricia Dias - ALMEIDA, Hebreia Oliveira - SENA NETTO, Jose Fabiano - PEREIRA, Matheus Rodrigues - DE BARROS, Everaldo Goncalves. Separomics applied to the proteomics and peptidomics of low-abundance proteins: Choice of methods and challenges A review. In *GENETICS AND MOLECULAR*

- BIOLOGY. ISSN 1415-4757, 2012, vol. 35, no. 1, pp. 283., WOS
- [1.1] CRISTINA ROMERO-RODRIGUEZ, M. - MALDONADO-ALCONADA, Ana M. - VALLEDOR, Luis - JORRIN-NOVO, Jesus V. - JORRINNOVO, JV - KOMATSU, S - WECKWERTH, W - WIENKOOP, S. Back to Osborne. Sequential Protein Extraction and LC-MS Analysis for the Characterization of the Holm Oak Seed Proteome. In PLANT PROTEOMICS: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2014, vol. 1072, no., pp. 379., WOS
- [1.1] DENG, Zhu Yun - GONG, Chun Yan - WANG, Tai. Use of proteomics to understand seed development in rice. In PROTEOMICS. ISSN 1615-9853, 2013, vol. 13, no. 12-13, pp. 1784., WOS
- [1.1] HUANG, Hui - MOLLER, Ian Max - SONG, Song-Quan. Proteomics of desiccation tolerance during development and germination of maize embryos. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2012, vol. 75, no. 4, pp. 1247., WOS
- [1.1] KHOSHROO, Sayed Mohammad Reza - KHAVARINEJAD, Ramezanali - BAGHIZADEH, Amin - FAHIMI, Hamid - MOHAMMADI, Zahra Noor. Seed storage protein electrophoretic profiles in some Iranian date palm (*Phoenix dactylifera* L.) cultivars. In AFRICAN JOURNAL OF BIOTECHNOLOGY, 2011, vol.10, no.77, 17793., WOS
- [1.1] LIU, Hui - WANG, Cuiping - KOMATSU, Setsuko - HE, Mingxia - LIU, Gongshe - SHEN, Shihua. Proteomic analysis of the seed development in *Jatropha curcas*: From carbon flux to the lipid accumulation. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2013, vol. 91, no., pp. 23., WOS
- [1.1] LI, Wenlan - GAO, Yi - XU, Hong - ZHANG, Yu - WANG, Jianbo. A Proteomic Analysis of Seed Development in *Brassica campestris* L. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 11, pp., WOS
- [1.1] MALDONADO-CERVANTES, Enrique - HUERTA-OCAMPO, Jose A. - MONTERO-MORAN, Gabriela M. - BARRERA-PACHECO, Alberto - ESPITIA-RANGEL, Eduardo - BARBA DE LA ROSA, Ana P. Characterization of *Amaranthus cruentus* L. seed proteins by 2-DE and LC/MS-MS: Identification and cloning of a novel late embryogenesis-abundant protein. In JOURNAL OF CEREAL SCIENCE. ISSN 0733-5210, 2014, vol. 60, no. 1, pp. 172., WOS
- [1.1] OGURA, Takahiro - OGIHARA, Jun - SUNAIRI, Michio - TAKEISHI, Hidetaka - AIZAWA, Tomoko - OLIVOS-TRUJILLO, Marcos R. - MAUREIRA-BUTLER, Ivan J. - SALVO-GARRIDO, Haroldo E. Proteomic characterization of seeds from yellow lupin (*Lupinus luteus* L.). In PROTEOMICS. ISSN 1615-9853, 2014, vol. 14, no. 12, pp. 1543., WOS
- [1.1] ROAN, Su-Feng - HSIUNG, Tung-Chuan - YANG, Kai-Yun - LIU, Wei-Ting - CHANG, Ing-Feng - WU, Chun-Ta - WAKANA, Akira. Establishment of the Optimal Conditions for Two-Dimensional Gel Electrophoresis of Papaya Seed Proteome. In JOURNAL OF THE FACULTY OF AGRICULTURE KYUSHU UNIVERSITY. ISSN 0023-6152, 2013, vol. 58, no. 2, pp. 239., WOS
- [1.1] SCHMIDT, Monica A. - BARBAZUK, W. Brad - SANDFORD, Michael - MAY, Greg - SONG, Zhihong - ZHOU, Wenxu - NIKOLAU, Basil J. - HERMAN, Eliot M. Silencing of Soybean Seed Storage Proteins Results in a Rebalanced Protein Composition Preserving Seed Protein Content without Major Collateral Changes in the Metabolome and Transcriptome. In PLANT PHYSIOLOGY, 2011, vol.156, no.1, 330., WOS

- [1.1] SILVA-SANCHEZ, Cecilia - CHEN, Sixue - ZHU, Ning - LI, Qin-Bao - CHOUREY, Prem S. Proteomic comparison of basal endosperm in maize miniature1 mutant and its wild-type Mn1. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] STASZAK, Aleksandra M. - PAWLOWSKI, Tomasz A. Forest tree research in post genomic era. Introduction to systems biology of broadleaves. In DENDROBIOLOGY. ISSN 1641-1307, 2012, vol. 68, no., pp. 113., WOS
- [1.1] STASZAK, Aleksandra Maria - PAWLOWSKI, Tomasz Andrzej. Proteomic Analysis of Embryogenesis and the Acquisition of Seed Dormancy in Norway Maple (*Acer platanoides* L.). In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2014, vol. 15, no. 6, pp. 10868., WOS
- [1.1] WANG, Wei-Qing - MOLLER, Ian Max - SONG, Song-Quan. Proteomic analysis of embryonic axis of *Pisum sativum* seeds during germination and identification of proteins associated with loss of desiccation tolerance. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2012, vol. 77, no., pp. 68., WOS
- [1.1] WANG, Yu-Dong - WANG, Xu - NGAI, Sai-ming - WONG, Yum-shing. Comparative Proteomics Analysis of Selenium Responses in Selenium-Enriched Rice Grains. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 2, pp. 808., WOS
- [1.2] HOSSAIN, M. M. - HOSSAIN, M. M. - LI, X. - LI, X. - EVANS, I. H. - RAHMAN, M. A. A proteomic analysis of seed proteins expressed in a *Brassica* somatic hybrid and its two parental species. In Plant Tissue Culture and Biotechnology. ISSN 18173721, 2014-01-01, 24, 1, pp. 11-26., SCOPUS
- [1.2] JUHÁSZ, Angéla - BÉKÉS, Frank - WRIGLEY, Colin W. Wheat Proteins. In Applied Food Protein Chemistry, 2014-12-31, pp. 219-303., SCOPUS

ADCA94 MILCEVICOVA, Renata - GROCH, Christian - HALBWIRTH, Heidrun - STICH, Karl - HANKE, Magda-Viola - PEIL, Andreas - FLACHOWSKY, Henrik - WILFRIED, Jonak Claudia - OUFIR, Mouhssin - HAUSMAN, Jean Francais - MATUŠÍKOVÁ, Ildikó - FLUCH, Silvia - WILHELM, Eva. Erwinia amylovora-induced defense mechanisms of two apple species that differ in susceptibility to fire blight. In *Plant Science*, 2010, vol. 179, no. 1-2, p. 60-67. (2.050 - IF2009). (2010 - Current Contents). ISSN 0168-9452.

Ohlasy:

- [1.1] DE BERNONVILLE, Thomas Duge - GAUCHER, Matthieu - GUYOT, Sylvain - DUREL, Charles-Eric - DAT, James F. - BRISSET, Marie-Noelle. The constitutive phenolic composition of two *Malus x domestica* genotypes is not responsible for their contrasted susceptibilities to fire blight. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY, 2011, vol.74, no., 65., WOS
- [1.1] DE BERNONVILLE, Thomas Duge - GAUCHER, Matthieu - FLORS, Victor - GAILLARD, Sylvain - PAULIN, Jean-Pierre - DAT, James F. - BRISSET, Marie-Noelle. T3SS-dependent differential modulations of the jasmonic acid pathway in susceptible and resistant genotypes of *Malus* spp. challenged with *Erwinia amylovora*. In PLANT SCIENCE. ISSN 0168-9452, 2012, vol. 188, no., pp. 1., WOS
- [1.1] EBADZAD, Ghazal - CRAVADOR, Alfredo. Quantitative RT-PCR

- analysis of differentially expressed genes in *Quercus suber* in response to Phytophthora cinnamomi infection. In SPRINGERPLUS. ISSN 2193-1801, 2014, vol. 3, no., pp., WOS
- [1.1] JENSEN, Philip J. - HALBRENDT, Noemi - FAZIO, Gennaro - MAKALOWSKA, Izabela - ALTMAN, Naomi - PRAUL, Craig - MAXIMOVA, Siela N. - NGUGI, Henry K. - CRASSWELLER, Robert M. - TRAVIS, James W. - MCNELLIS, Timothy W. Rootstock-regulated gene expression patterns associated with fire blight resistance in apple. In BMC GENOMICS. ISSN 1471-2164, 2012, vol. 13, no., pp., WOS
- [1.1] PERINI, Pamela - PASQUALI, Giancarlo - MARGIS-PINHEIRO, Marcia - DIAS DE OLIVIERA, Paulo Ricardo - REVERS, Luis Fernando. Reference genes for transcriptional analysis of flowering and fruit ripening stages in apple (*Malus x domestica* Borkh.). In MOLECULAR BREEDING. ISSN 1380-3743, 2014, vol. 34, no. 3, pp. 829., WOS
- [1.1] VERGNE, E. - DE BERNONVILLE, T. Duge - DUPUIS, F. - SOURCE, S. - COURNOL, R. - BERTHELOT, P. - BARNY, M. A. - BRISSET, M. N. - CHEVREAUX, E. Membrane-Targeted HrpN(Ea) Can Modulate Apple Defense Gene Expression. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, 2014, vol. 27, no. 2, pp. 125., WOS
- [1.1] VRANCKEN, K. - HOLTAPPELS, M. - SCHOOFS, H. - DECKERS, T. - TREUTTER, D. - VALCKE, R. *Erwinia amylovora* affects the phenylpropanoid-flavonoid pathway in mature leaves of *Pyrus communis* cv. Conference. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2013, vol. 72, no., pp. 134., WOS
- [1.1] VRANCKEN, K. - HOLTAPPELS, M. - SCHOOFS, H. - DECKERS, T. - VALCKE, R. Pathogenicity and infection strategies of the fire blight pathogen *Erwinia amylovora* in Rosaceae: State of the art. In MICROBIOLOGY-SGM. ISSN 1350-0872, 2013, vol. 159, no., pp. 823., WOS
- [1.1] VRANCKEN, K. - HOLTAPPELS, M. - VALCKE, R. - SCHOOFS, H. - DECKERS, T. - BYLEMANS, D. - REZZONICO, F. - SMITS, THM - HOLLIGER, E. Defense Mechanisms of Rosaceous Plants against Fire Blight Pathogen *Erwinia amylovora*. In XIII INTERNATIONAL WORKSHOP ON FIRE BLIGHT. ISSN 0567-7572, 2014, vol. 1056, no., pp. 195., WOS
- [1.1] VRANCKEN, K. - SCHOOFS, H. - DECKERS, T. - VALCKE, R. Real time qPCR expression analysis of some stress related genes in leaf tissue of *Pyrus communis* cv. Conference after infection with *Erwinia amylovora*. In TREES-STRUCTURE AND FUNCTION. ISSN 0931-1890, 2012, vol. 26, no. 1, pp. 67., WOS
- [1.1] YIN, Lihua - ZOU, Yangjun - KE, Xiwang - LIANG, Dong - DU, Xuan - ZHAO, Yaoyao - ZHANG, Qiangqiang - MA, Fengwang. Phenolic responses of resistant and susceptible *Malus* plants induced by *Diplocarpon mali*. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2013, vol. 164, no., pp. 17., WOS
- [1.2] COELHO, A.C. - HORTA, M. - EBADZAD, G. - CRAVADOR, A. *Quercus suber* phytophthora cinnamomi interaction: A hypothetical molecular mechanism model. In New Zealand Journal of Forestry Science, 2011, vol.41, no.SUPPL., s143-S157., SCOPUS

ADCA95 MILLAM, S. - OBERT, Bohuš - PREŤOVÁ, Anna. Plant cell and biotechnology studies in Linum usitatissimum - a review. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2005, vol. 82, p. 93-103. ISSN 0167-6857.

Ohlasy:

- [1.1] BURBULIS, Natalija - BLINSTROUBIENE, Ausra - KUPIRENE, Ramune. Effect of genotype and medium composition on linseed (Linum usitatissimum) ovary culture. In BIOLOGIA, 2011, vol.66, no.3, 465., WOS
- [1.1] BURBULIS, Natalija - BLINSTROUBIENE, Ausra. Genotypic and exogenous factors affecting linseed (Linum usitatissimum L.) anther culture. In JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, 2011, vol.9, no.3-4, 364., WOS
- [1.1] BURBULIS, Natalija - BLINSTROUBIENE, Ausra - MASIENE, Ramune - JANKAUSKIENE, Zofija - GRUZDEVIE, Elvyra. Genotypic and growth regulator effects on organogenesis from hypocotyl explants of fiber flax (Linum usitatissimum L.). In JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT. ISSN 1459-0255, 2012, vol. 10, no. 1, pp. 397., WOS
- [1.1] BURBULIS, Natalija - BLINSTROUBIENE, Ausra - MASIENE, Ramune - JONYTIENE, Vaida. Influence of genotype, growth regulators and sucrose concentration on linseed (Linum usitatissimum L.) anther culture. In JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT. ISSN 1459-0255, 2012, vol. 10, no. 3-4, pp. 764., WOS
- [1.1] DENG, Xin - LONG, SongHua - HE, DongFeng - LI, Xiang - WANG, YuFu - HAO, DongMei - QIU, CaiSheng - CHEN, XinBo. Isolation and characterization of polymorphic microsatellite markers from flax (Linum usitatissimum L.). In AFRICAN JOURNAL OF BIOTECHNOLOGY, 2011, vol.10, no.5, 734., WOS
- [1.1] FARAHPOUR, Mohammad Reza - TAGHikhani, Human - HABIBI, Mostafa - ZANDIEH, Mohammad Amin. Wound healing activity of flaxseed Linum usitatissimum L. in rats. In AFRICAN JOURNAL OF PHARMACY AND PHARMACOLOGY, 2011, vol.5, no.21, 2386., WOS
- [1.1] GONZALEZ, Leonardo Galindo - DEYHOLOS, Michael K. Identification, characterization and distribution of transposable elements in the flax (Linum usitatissimum L.) genome. In BMC GENOMICS. ISSN 1471-2164, 2012, vol. 13, no., pp., WOS
- [1.1] LEMESH, V. A. - SAMATADZE, T. E. - GUZENKO, E. V. - ZHELEZNYAKOVA, E. V. - AMOSOVA, A. V. - ZELENIN, A. V. - MURAVENKO, O. V. Features of development and reproduction of transgenic flax. In RUSSIAN JOURNAL OF DEVELOPMENTAL BIOLOGY. ISSN 1062-3604, 2014, vol. 45, no. 6, pp. 337., WOS
- [1.1] LONG, Song-Hua - DENG, Xin - WANG, Yu-Fu - LI, Xiang - QIAO, Rui-Qing - QIU, Cai-Sheng - GUO, Yuan - HAO, Dong-Mei - JIA, Wan-Qi - CHEN, Xin-Bo. Analysis of 2,297 expressed sequence tags (ESTs) from a cDNA library of flax (Linum usitatissimum L.) bark tissue. In MOLECULAR BIOLOGY REPORTS. ISSN 0301-4851, 2012, vol. 39, no. 5, pp. 6289., WOS
- [1.1] PAVELEK, M. - TEJKLOVA, E. - ONDREJ, M. - VRBOVA, M. - KOZLOWSKI, RM. Developments in fibrous flax breeding and cultivation. In HANDBOOK OF NATURAL FIBRES, VOL 1: TYPES, PROPERTIES AND FACTORS AFFECTING BREEDING AND CULTIVATION. ISSN 2042-0803, 2012, vol., no. 118, pp. 393., WOS

- [1.1] SIEGIEN, Irena - ADAMCZUK, Aneta - WROBLEWSKA, Katarzyna. Light affects in vitro organogenesis of Linum usitatissimum L. and its cyanogenic potential. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2013, vol. 35, no. 3, pp. 781., WOS
- [1.1] WIELGUS, K. - SZALATA, M. - SLOMSKI, R. - KOZLOWSKI, RM. Genetic engineering and biotechnology of natural textile fiber plants. In HANDBOOK OF NATURAL FIBRES, VOL 1: TYPES, PROPERTIES AND FACTORS AFFECTING BREEDING AND CULTIVATION. ISSN 2042-0803, 2012, vol., no. 118, pp. 550., WOS
- [1.1] YU, Ying - HUANG, Wengong - CHEN, Hongyu - WU, Guangwen - YUAN, Hongmei - SONG, Xixia - KANG, Qinghua - ZHAO, Dongsheng - JIANG, Weidong - LIU, Yan - WU, Jianzhong - CHENG, Lili - YAO, Yubo - GUAN, Fengzhi. Identification of differentially expressed genes in flax (Linum usitatissimum L.) under saline-alkaline stress by digital gene expression. In GENE. ISSN 0378-1119, 2014, vol. 549, no. 1, pp. 113., WOS
- [3] Kokina, Inese - Sledevskis, Eriks - Gerbreders, Vjaceslavs - Grauda, Dace - Jermalonoka, Marija - Valaine, Kristina - Gavarane, Inese - Piginka, Inga - Filipovics, Maksims - Rashal, Isaak. REACTION OF FLAX (Linum usitatissimum L.) CALLI CULTURE TO SUPPLEMENT OF MEDIUM BY CARBON NANOPARTICLES. In Proceedings of the Latvian Academy of Sciences Section B Natural Exact and Applied Sciences, 2012, vol. 64, no. 4, p. 200-209.

ADCA96 MLYNÁROVÁ, Ľudmila - NAP, Jan Peter. A self-excising Cre recombinase allows efficient recombination of multiple ectopic heterospecific lox sites in transgenic tobacco. In *Transgenic Research*, vol. 12, no.1 (2003), p. 45-47. ISSN 0962-8819.

Ohlasy:

- [1.1] ANTUNES, Mauricio S. - SMITH, J. Jeff - JANTZ, Derek - MEDFORD, June I. Targeted DNA excision in Arabidopsis by a re-engineered homing endonuclease. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2012, vol. 12, no., pp., WOS
- [1.1] BOSZORADOVA, Eva - LIBANTOVA, Jana - MATSUIKOVA, Ildiko - MORAVCIKOVA, Jana. Application of Arabidopsis tissue-specific CRUC promoter in the Cre/loxP self-excision strategy for generation of marker-free oilseed rape: potential advantages and drawbacks. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2014, vol. 36, no. 6, pp. 1399., WOS
- [1.1] KAPUSI, Eszter - KEMPE, Katja - RUBTSOVA, Myroslava - KUMLEHN, Jochen - GILS, Mario. phiC31 Integrase-Mediated Site-Specific Recombination in Barley. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 9, pp., WOS
- [1.1] TUTEJA, Narendra - VERMA, Shiv - SAHOO, Ranjan Kumar - RAVEENDAR, Sebastian - REDDY, I. N. Bheema Lingeshwara. Recent advances in development of marker-free transgenic plants: Regulation and biosafety concern. In JOURNAL OF BIOSCIENCES. ISSN 0250-5991, 2012, vol. 37, no. 1, pp. 167., WOS
- [1.1] ZOU, Xiuping - PENG, Aihong - XU, Lanzhen - LIU, Xiaofeng - LEI, Tiangang - YAO, Lixiao - HE, Yongrui - CHEN, Shanchun. Efficient auto-excision of a selectable marker gene from transgenic citrus by combining

the Cre/loxP system and ipt selection. In PLANT CELL REPORTS. ISSN 0721-7714, 2013, vol. 32, no. 10, pp. 1601., WOS

ADCA97     MLYNÁROVÁ, Ludmila - COONER, A.J. - NAP, Jan Peter. Directed microspore-specific recombination of transgenic alleles to prevent pollen-mediated transmission of transgenes. In *Plant Biotechnology Journal*, 2006, vol. 4, no. 4, p. 445-452. ISSN 1467-7644.

Ohlasy:

- [1.1]     AKBUDAK, M. Aydin - SRIVASTAVA, Vibha. Improved FLP Recombinase, FLPe, Efficiently Removes Marker Gene from Transgene Locus Developed by Cre-lox Mediated Site-Specific Gene Integration in Rice. In MOLECULAR BIOTECHNOLOGY, 2011, vol.49, no.1, 82-89., WOS
- [1.1]     BOSZORADOVA, Eva - LIBANTOVA, Jana - MATSUIKOVA, Ildiko - MORAVCIKOVA, Jana. Application of Arabidopsis tissue-specific CRUC promoter in the Cre/loxP self-excision strategy for generation of marker-free oilseed rape: potential advantages and drawbacks. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2014, vol. 36, no. 6, pp. 1399., WOS
- [1.1]     BREYER, Didier - KOPERTEKH, Lilya - REHEUL, Dirk. Alternatives to Antibiotic Resistance Marker Genes for In Vitro Selection of Genetically Modified Plants Scientific Developments, Current Use, Operational Access and Biosafety Considerations. In CRITICAL REVIEWS IN PLANT SCIENCES. ISSN 0735-2689, 2014, vol. 33, no. 4, pp. 286., WOS
- [1.1]     HINZE, Axel - BECKER, Dirk. Next generation biotechnology: how sophisticated constructs lead to further insights and new approaches towards biotechnology's demands. In IFOREST-BIOGEOSCIENCES AND FORESTRY. ISSN 1971-7458, 2012, vol. 5, no., pp. 131., WOS
- [1.1]     HSU, Ssu-Wei - LIU, Ming-Che - ZEN, Kuo-Chang - WANG, Co-Shine. Identification of the tapetum/microspore-specific promoter of the pathogenesis-related 10 gene and its regulation in the anther of *Lilium longiflorum*. In PLANT SCIENCE. ISSN 0168-9452, 2014, vol. 215, no., pp. 124., WOS
- [1.1]     HU, Zhan - DING, Xuezhi - HU, Shengbiao - SUN, Yunjun - XIA, Liqiu. Tissue-specifically regulated site-specific excision of selectable marker genes in bivalent insecticidal, genetically-modified rice. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2013, vol. 35, no. 12, pp. 2177., WOS
- [1.1]     CHONG-PEREZ, Borys - KOSKY, Rafael G. - REYES, Maritza - ROJAS, Luis - OCANA, Barbara - TEJEDA, Marisol - PEREZ, Blanca - ANGENON, Geert. Heat shock induced excision of selectable marker genes in transgenic banana by the Cre-lox site-specific recombination system. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2012, vol. 159, no. 4, pp. 265., WOS
- [1.1]     CHONG-PEREZ, Borys - REYES, Maritza - ROJAS, Luis - OCANA, Barbara - RAMOS, Adolfo - KOSKY, Rafael G. - ANGENON, Geert. Excision of a selectable marker gene in transgenic banana using a Cre/lox system controlled by an embryo specific promoter. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2013, vol. 83, no. 1-2, pp. 143., WOS
- [1.1]     KWIT, Charles - MOON, Hong S. - WARWICK, Suzanne I. - STEWART, C. Neal. Transgene introgression in crop relatives: molecular evidence and mitigation strategies. In TRENDS IN BIOTECHNOLOGY, 2011,

- vol.29, no.6, 284-293., WOS
- [1.1] LOMBARDO, Luca. Genetic use restriction technologies: a review. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2014, vol. 12, no. 8, pp. 995., WOS
- [1.1] MANIMARAN, P. - RAMKUMAR, G. - SAKTHIVEL, K. - SUNDARAM, R. M. - MADHAV, M. S. - BALACHANDRAN, S. M. Suitability of non-lethal marker and marker-free systems for development of transgenic crop plants: Present status and future prospects. In BIOTECHNOLOGY ADVANCES, 2011, vol.29, no.6, 703-714., WOS
- [1.1] MICHAUD, Dominique. In consideration of GMOs: a virtual special issue of the Plant Biotechnology Journal. In PLANT BIOTECHNOLOGY JOURNAL, 2011, vol.9, no.9, 933., WOS
- [1.1] NGUYEN, Linh D. - UNDERWOOD, Jamie L. - NANDY, Soumen - AKBUDAK, M. Aydin - SRIVASTAVA, Vibha. Strong activity of FLPe recombinase in rice plants does not correlate with the transmission of the recombined locus to the progeny. In PLANT BIOTECHNOLOGY REPORTS. ISSN 1863-5466, 2014, vol. 8, no. 6, pp. 455., WOS
- [1.1] SANG, Yi - MILLWOOD, Reginald J. - STEWART, C. Neal. Gene use restriction technologies for transgenic plant bioconfinement. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2013, vol. 11, no. 6, pp. 649., WOS
- [1.1] SOMLEVA, Maria N. - XU, Chang Ai - RYAN, Kieran P. - THILMONY, Roger - PEOPLES, Oliver - SNELL, Kristi D. - THOMSON, James. Transgene autoexcision in switchgrass pollen mediated by the Bxb1 recombinase. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2014, vol. 14, no., pp., WOS
- [1.1] TUTEJA, Narendra - VERMA, Shiv - SAHOO, Ranjan Kumar - RAVEENDAR, Sebastian - REDDY, I. N. Bheema Lingeshwara. Recent advances in development of marker-free transgenic plants: Regulation and biosafety concern. In JOURNAL OF BIOSCIENCES. ISSN 0250-5991, 2012, vol. 37, no. 1, pp. 167., WOS
- [1.1] WANG, Yueju - YAU, Yuan-Yeu - PERKINS-BALDING, Donna - THOMSON, James G. Recombinase technology: applications and possibilities. In PLANT CELL REPORTS, 2011, vol.30, no.3, 267-285., WOS
- [1.1] WOO, Hee-Jong - SUH, Seok-Cheol - CHO, Yong-Gu. Strategies for developing marker-free transgenic plants. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING, 2011, vol.16, no.6, 1053-1064., WOS
- [1.1] YAU, Yuan-Yeu - STEWART, C. Neal. Less is more: strategies to remove marker genes from transgenic plants. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2013, vol. 13, no., pp., WOS
- [1.1] ZOU, Xiuping - PENG, Aihong - XU, Lanzen - LIU, Xiaofeng - LEI, Tiangang - YAO, Lixiao - HE, Yongrui - CHEN, Shanchun. Efficient auto-excision of a selectable marker gene from transgenic citrus by combining the Cre/loxP system and ipt selection. In PLANT CELL REPORTS. ISSN 0721-7714, 2013, vol. 32, no. 10, pp. 1601., WOS

ADCA98 MLYNÁROVÁ, Ľudmila - BAUER, Miroslav - NAP, Jan Peter - PREŤOVÁ, Anna. High-efficiency agrobacterium-mediated gene-transfer to flax. In *Plant Cell Reports*, 1994, vol. 13, no. 5, p. 282-285. ISSN 0721-7714.

Ohlasy:

- [1.1] BASTAKI, Nasmah K. - CULLIS, Christopher A. Floral-Dip Transformation of Flax (*Linum usitatissimum*) to Generate Transgenic Progenies with a High Transformation Rate. In JOVE-JOURNAL OF VISUALIZED EXPERIMENTS. ISSN 1940-087X, 2014, vol., no. 94, pp., WOS
- [1.1] BLEHO, Juraj - OBERT, Bohus - TAKAC, Tomas - PETROVSKA, Beata - HEYM, Claudia - MENZEL, Diedrik - SAMAJ, Jozef. ER disruption and GFP degradation during non-regenerable transformation of flax with Agrobacterium tumefaciens. In PROTOPLASMA. ISSN 0033-183X, 2012, vol. 249, no. 1, pp. 53., WOS
- [1.1] HOBSON, Neil - DEYHOLOS, Michael K. LuFLA1(PRO) and LuBGAL1(PRO) promote gene expression in the phloem fibres of flax (*Linum usitatissimum*). In PLANT CELL REPORTS. ISSN 0721-7714, 2013, vol. 32, no. 4, pp. 517., WOS
- [1.1] PAVELEK, M. - TEJKLOVA, E. - ONDREJ, M. - VRBOVA, M. - KOZLOWSKI, RM. Developments in fibrous flax breeding and cultivation. In HANDBOOK OF NATURAL FIBRES, VOL 1: TYPES, PROPERTIES AND FACTORS AFFECTING BREEDING AND CULTIVATION. ISSN 2042-0803, 2012, vol., no. 118, pp. 393., WOS
- [1.1] RENOARD, Sullivan - TRIBALAT, Marie-Aude - LAMBLIN, Frederic - MONGELARD, Gaelle - FLINIAUX, Ophelie - CORBIN, Cyrielle - MAROSEVIC, Djurdjica - PILARD, Serge - DEMAILLY, Herve - GUTIERREZ, Laurent - HANO, Christophe - MESNARD, Francois - LAINE, Eric. RNAi-mediated pinoresinol lariciresinol reductase gene silencing in flax (*Linum usitatissimum L.*) seed coat: Consequences on lignans and neolignans accumulation. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2014, vol. 171, no. 15, pp. 1372., WOS
- [1.1] ROACH, Melissa J. - MOKSHINA, Natalia Y. - BADHAN, Ajay - SNEGIREVA, Anastasiya V. - HOBSON, Neil - DEYHOLOS, Michael K. - GORSHKOVA, Tatyana A. Development of Cellulosic Secondary Walls in Flax Fibers Requires beta-Galactosidase. In PLANT PHYSIOLOGY, 2011, vol.156, no.3, 1351., WOS

ADCA99 MLYNÁROVÁ, Ľudmila - HRICOVÁ, Andrea - LOONEN, A. - NAP, Jan Peter. The presence of a chromatin boundary appears to shield a transgene in tobacco from RNA silencing. In *Plant Cell*, 2003, vol. 15, no. 9, p. 2203-2217. ISSN 1040-4651.

Ohlasy:

- [1.1] JI, Lusha - XU, Rui - LU, Longtao - ZHANG, Jiedao - YANG, Guodong - HUANG, Jingguang - WU, Changai - ZHENG, Chengchao. TM6, a novel nuclear matrix attachment region, enhances its flanking gene expression through influencing their chromatin structure. In MOLECULES AND CELLS. ISSN 1016-8478, 2013, vol. 36, no. 2, pp. 127., WOS
- [1.1] KHAITOVA, Lucie Crhak - FOJTOVA, Miloslava - KRIZOVA, Katerina - LUNEROVA, Jana - FULNECEK, Jaroslav - DEPICKER, Anna - KOVARIK, Ales. Paramutation of tobacco transgenes by small RNA-mediated transcriptional gene silencing. In EPIGENETICS, 2011, vol.6, no.5, 650-660., WOS
- [1.1] SCHOBORG, Todd - LABRADOR, Mariano. Expanding the roles of chromatin insulators in nuclear architecture, chromatin organization and genome

function. In CELLULAR AND MOLECULAR LIFE SCIENCES. ISSN 1420-682X, 2014, vol. 71, no. 21, pp. 4089., WOS

ADCA100 MLYNÁROVÁ, Ludmila - LIBANTOVÁ, Jana - VRBA, Lukáš - NAP, Jan Peter. The promiscuity of heterospecific lox sites increases dramatically in the presence of palindromic DNA. In *GENE*, 2002, vol. 296, no. 1-2, p. 129-137. ISSN 0378-1119.

Ohlasy:

- [1.1] CHENG, Ya-An - JEE, Jason - HSU, Genie - HUANG, Yanyan - CHEN, Casey - LIN, Chun-Pin. A markerless protocol for genetic analysis of Aggregatibacter actinomycetemcomitans. In *JOURNAL OF THE FORMOSAN MEDICAL ASSOCIATION*. ISSN 0929-6646, 2014, vol. 113, no. 2, pp. 114., WOS
- [1.1] TURAN, Soeren - GALLA, Melanie - ERNST, Ellen - QIAO, Junhua - VOELKEL, Christine - SCHIEDLMEIER, Bernhard - ZEHE, Christoph - BODE, Juergen. Recombinase-Mediated Cassette Exchange (RMCE): Traditional Concepts and Current Challenges. In *JOURNAL OF MOLECULAR BIOLOGY*, 2011, vol.407, no.2, 193-221., WOS

ADCA101 MLYNÁROVÁ, Ludmila - NAP, J.P. - BISSELING, T. The SWI/SNF chromatin-remodeling gene AtCHR12 mediates temporary growth arrest in *Arabidopsis thaliana* upon perceiving environmental stress. In *Plant Journal*, 2007, vol. 51, no. 5, p. 874-885. (2007 - Current Contents). ISSN 0960-7412.

Ohlasy:

- [1.1] AY, Nicole - JANACK, Bianka - HUMBECK, Klaus. Epigenetic control of plant senescence and linked processes. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2014, vol. 65, no. 14, pp. 3875., WOS
- [1.1] BITA, Craita E. - GERATS, Tom. Plant tolerance to high temperature in a changing environment: scientific fundamentals and production of heat stress-tolerant crops. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] CLAEYS, Hannes - INZE, Dirk. The Agony of Choice: How Plants Balance Growth and Survival under Water-Limiting Conditions. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2013, vol. 162, no. 4, pp. 1768., WOS
- [1.1] DHAR, Manoj Kumar - VISHAL, Parivartan - SHARMA, Rahul - KAUL, Sanjana. Epigenetic Dynamics: Role of Epimarks and Underlying Machinery in Plants Exposed to Abiotic Stress. In *INTERNATIONAL JOURNAL OF GENOMICS*. ISSN 2314-436X, 2014, vol., no., pp., WOS
- [1.1] FARRONA, Sara - HURTADO, Lidia - MARCH-DIAZ, Rosana - SCHMITZ, Robert J. - FLORENCIO, Francisco J. - TURCK, Franziska - AMASINO, Richard M. - REYES, Jose C. Brahma Is Required for Proper Expression of the Floral Repressor FLC in *Arabidopsis*. In *PLOS ONE*, 2011, vol.6, no.3., WOS
- [1.1] HAN, Soon-Ki - WAGNER, Doris. Role of chromatin in water stress responses in plants. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2014, vol. 65, no. 10, pp. 2785., WOS
- [1.1] CHINNUSAMY, Viswanathan - DALAL, Monika - ZHU, Jian-Kang - JENKS, MA - HASEGAWA, PM. Epigenetic regulation of abiotic stress responses in plants. In *PLANT ABIOTIC STRESS*, 2ND EDITION, 2014, vol.,

no., pp. 203., WOS

- [1.1] CHOI, Jun Young - SEO, Young Sam - KIM, Su Jin - KIM, Woo Taek - SHIN, Jeong Sheop. Constitutive expression of CaXTH3, a hot pepper xyloglucan endotransglucosylase/hydrolase, enhanced tolerance to salt and drought stresses without phenotypic defects in tomato plants (*Solanum lycopersicum* cv. Dotaerang). In *PLANT CELL REPORTS*, 2011, vol.30, no.5, 867-877., WOS
- [1.1] KUMAR, Sushil - KUMARI, Renu - SHARMA, Vishakha - SHARMA, Vinay. Roles, and establishment, maintenance and erasing of the epigenetic cytosine methylation marks in plants. In *JOURNAL OF GENETICS*. ISSN 0022-1333, 2013, vol. 92, no. 3, pp. 629., WOS
- [1.1] LEE, Jeongyeo - HAN, Ching-Tack - HUR, Yoonkang. Molecular characterization of the *Brassica rapa* auxin-repressed, superfamily genes, BrARP1 and BrDRM1. In *MOLECULAR BIOLOGY REPORTS*. ISSN 0301-4851, 2013, vol. 40, no. 1, pp. 197., WOS
- [1.1] LI, X.Y. - WANG, C. - NIE, P.P. - LU, X.W. - WANG, M. - LIU, W. - YAO, J. - LIU, Y.G. - ZHANG, Q.Y. Characterization and expression analysis of the SNF2 family genes in response to phytohormones and abiotic stresses in rice. In *BIOLOGIA PLANTARUM*, 2011, vol.55, no.4, 625-633., WOS
- [1.1] MATHUR, Sonal - AGRAWAL, Divya - JAJOO, Anjana. Photosynthesis: Response to high temperature stress. In *JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY*. ISSN 1011-1344, 2014, vol. 137, no., pp. 116., WOS
- [1.1] MEHROTRA, Rajesh - BHALOTHIA, Purva - BANSAL, Prashali - BASANTANI, Mahesh Kumar - BHARTI, Vandana - MEHROTRA, Sandhya. Abscisic acid and abiotic stress tolerance Different tiers of regulation. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2014, vol. 171, no. 7, pp. 486., WOS
- [1.1] NIU, Shihui - GAO, Qiong - LI, Zhixin - CHEN, Xiaoyang - LI, Wei. The Role of Gibberellin in the CBF1-Mediated Stress-Response Pathway. In *PLANT MOLECULAR BIOLOGY REPORTER*. ISSN 0735-9640, 2014, vol. 32, no. 4, pp. 852., WOS
- [1.1] PARK, Sung-Chul - KIM, Yun-Hee - JEONG, Jae Cheol - KIM, Cha Young - LEE, Haeng-Soon - BANG, Jae-Wook - KWAK, Sang-Soo. Sweetpotato late embryogenesis abundant 14 (IbLEA14) gene influences lignification and increases osmotic- and salt stress-tolerance of transgenic calli. In *PLANTA*, 2011, vol.233, no.3, 621-634., WOS
- [1.1] RAUT, Vishal V. - PANDEY, Shashibhal M. - SAINIS, Jayashree K. Histone octamer trans-transfer: a signature mechanism of ATP-dependent chromatin remodelling unravelled in wheat nuclear extract. In *ANNALS OF BOTANY*, 2011, vol.108, no.7, 1235-1246., WOS
- [1.1] REYES, Jose C. The Many Faces of Plant SWI/SNF Complex. In *MOLECULAR PLANT*. ISSN 1674-2052, 2014, vol. 7, no. 3, pp. 454., WOS
- [1.1] RONG, Erhua - ZHAO, Zhiguo - ZHAO, Zhihong - MA, Jinhu - ZANG, Weidong - WANG, Lishan - XIE, Dongli - YANG, Wude. Wheat cold and light stress analysis based on the *Arabidopsis* homology protein-protein interaction (PPI) network. In *JOURNAL OF MEDICINAL PLANTS RESEARCH*, 2011, vol.5, no.23, 5493-5498., WOS
- [1.1] RONG, Erhua - ZHAO, Zhiguo - ZHAO, Zhihong - MA, Jinhu - ZANG, Weidong - WANG, Lishan - XIE, Dongli - YANG, Wude. Wheat cold

and light stress analysis based on the *Arabidopsis* homology protein-protein interaction (PPI) network. In JOURNAL OF MEDICINAL PLANTS RESEARCH. ISSN 1996-0875, 2011, vol. 5, no. 23, pp. 5493., WOS  
 [1.1] SANG, Yi - SILVA-ORTEGA, Claudia O. - WU, Shuang - YAMAGUCHI, Nobutoshi - WU, Miin-Feng - PFLUGER, Jennifer - GILLMOR, C. Stewart - GALLAGHER, Kimberly L. - WAGNER, Doris. Mutations in two non-canonical *Arabidopsis* SWI2/SNF2 chromatin remodeling ATPases cause embryogenesis and stem cell maintenance defects. In PLANT JOURNAL. ISSN 0960-7412, 2012, vol. 72, no. 6, pp. 1000., WOS  
 [1.1] SINAPIDOU, Evangelia - TOKATLIDIS, Ioannis S. - LICHTFOUSE, E. Genetic Mechanisms Enhancing Plant Biodiversity. In GENETICS, BIOFUELS AND LOCAL FARMING SYSTEM, 2011, vol.7, no., 51., WOS  
 [1.1] VAN OOSTEN, Michael J. - BRESSAN, Ray A. - ZHU, Jian-Kang - BOHNERT, Hans J. - CHINNUSAMY, Viswanathan. The Role of the Epigenome in Gene Expression Control and the Epimark Changes in Response to the Environment. In CRITICAL REVIEWS IN PLANT SCIENCES. ISSN 0735-2689, 2014, vol. 33, no. 1, pp. 64., WOS  
 [1.1] YUAN TING-TING - CUI SU-JUAN. The Recent Progress on SWI/SNF Chromatin Remodeling in Higher Plants. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, 2013, vol. 40, no. 9, pp. 804., WOS  
 [1.1] YUAN, Lianyu - LIU, Xuncheng - LUO, Ming - YANG, Songguang - WU, Keqiang. Involvement of Histone Modifications in Plant Abiotic Stress Responses. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY. ISSN 1672-9072, 2013, vol. 55, no. 10, pp. 892., WOS

ADCA102 MORAVČÍKOVÁ, Jana - MATUŠÍKOVÁ, Ildikó - LIBANTOVÁ, Jana - BAUER, Miroslav - MLYNÁŘOVÁ, Ludmila. Expression of a cucumber class III chitinase and *Nicotiana plumbaginifolia* class I glucanase genes in transgenic potato plants. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2004, vol. 74, no. 2, p. 161-168. ISSN 0167-6857.

Ohlasy:

- [1.1] CEASAR, S. Antony - IGNACIMUTHU, S. Genetic engineering of crop plants for fungal resistance: role of antifungal genes. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2012, vol. 34, no. 6, pp. 995., WOS
- [1.1] LIU, Hongbo - GUO, Xiang - NAEEM, Muhammad S. - LIU, Dan - XU, Ling - ZHANG, Wenfang - TANG, Guixiang - ZHOU, Weijun. Transgenic *Brassica napus* L. lines carrying a two gene construct demonstrate enhanced resistance against *Plutella xylostella* and *Sclerotinia sclerotiorum*. In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.106, no.1, 143-151., WOS
- [1.1] LIU, Hongbo - GUO, Xiang - NAEEM, Muhammad S. - LIU, Dan - XU, Ling - ZHANG, Wenfang - TANG, Guixiang - ZHOU, Weijun. Transgenic *Brassica napus* L. lines carrying a two gene construct demonstrate enhanced resistance against *Plutella xylostella* and *Sclerotinia sclerotiorum*. In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.106, no.1, 143., WOS
- [1.1] SHAH, J. M. - SINGH, R. - VELUTHAMBI, K. Transgenic rice lines constitutively co-expressing tlp-D34 and chi11 display enhancement of sheath blight resistance. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2013, vol. 57, no. 2, pp. 351., WOS

- [1.2] JIN, Wenjuan - ZHANG, Shaojie - CHEN, Shuangchen - LIN, Xiaomin - HE, Chaoxing. Overexpression of Mdip1 gene enhanced tolerance of transgenic tomato to chilling mediated oxidative stress. In *Zhiwu Shengli Xuebao/Plant Physiology Journal*. ISSN 20951108, 2013-05-01, 49, 5, pp. 493-500., SCOPUS

ADCA103 MORAVČÍKOVÁ, Jana - VACULKOVÁ, Eva - BAUER, Miroslav - LIBANTOVÁ, Jana. Feasibility of the seed specific cruciferin C promoter in the self excision Cre/loxP strategy focused on generation of marker-free transgenic plants. In *Theoretical and Applied Genetics*, 2008, vol. 23, no. 8, p.1325 - 1334. (3.137 - IF2007). ISSN 0040-5752.

Ohlasy:

- [1.1] AMOS, Peter J. - BOZKULAK, Esra Cagavi - QYANG, Yibing. Methods of Cell Purification: A Critical Juncture for Laboratory Research and Translational Science. In *CELLS TISSUES ORGANS*. ISSN 1422-6405, 2012, vol. 195, no. 1-2, pp. 26., WOS
- [1.1] CHONG-PEREZ, Borys - KOSKY, Rafael G. - REYES, Maritza - ROJAS, Luis - OCANA, Barbara - TEJEDA, Marisol - PEREZ, Blanca - ANGENON, Geert. Heat shock induced excision of selectable marker genes in transgenic banana by the Cre-lox site-specific recombination system. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2012, vol. 159, no. 4, pp. 265., WOS
- [1.1] CHONG-PEREZ, Borys - REYES, Maritza - ROJAS, Luis - OCANA, Barbara - RAMOS, Adolfo - KOSKY, Rafael G. - ANGENON, Geert. Excision of a selectable marker gene in transgenic banana using a Cre/lox system controlled by an embryo specific promoter. In *PLANT MOLECULAR BIOLOGY*. ISSN 0167-4412, 2013, vol. 83, no. 1-2, pp. 143., WOS
- [1.1] KIM, Woong Bom - LIM, Chan Ju - JANG, Hyun A. - YI, So Young - OH, Sang-Keun - LEE, Ha Yeon - KIM, Hyun A. - PARK, Youn-II - KWON, Suk-Yoon. SIPMEI, a pollen-specific gene in tomato. In *CANADIAN JOURNAL OF PLANT SCIENCE*. ISSN 0008-4220, 2014, vol. 94, no. 1, pp. 73., WOS
- [1.1] TUTEJA, Narendra - VERMA, Shiv - SAHOO, Ranjan Kumar - RAVEENDAR, Sebastian - REDDY, I. N. Bheema Lingeshwara. Recent advances in development of marker-free transgenic plants: Regulation and biosafety concern. In *JOURNAL OF BIOSCIENCES*. ISSN 0250-5991, 2012, vol. 37, no. 1, pp. 167., WOS
- [1.1] WOO, Hee-Jong - SUH, Seok-Cheol - CHO, Yong-Gu. Strategies for developing marker-free transgenic plants. In *BIOTECHNOLOGY AND BIOPROCESS ENGINEERING*, 2011, vol.16, no.6, 1053., WOS
- [1.2] AMOS, P.J. - CAGAVI BOZKULAK, E. - QYANG, Y. Methods of cell purification: A critical juncture for laboratory research and translational science. In *Cells Tissues Organs*, 2011, vol.195, no.1-2, 26-40., SCOPUS

ADCA104 MORAVČÍKOVÁ, Jana - LIBANTOVÁ, Jana - HELDÁK, J. - SALAJ, Ján - BAUER, Miroslav - MATUŠÍKOVÁ, Ildikó - GÁLOVÁ, Zdenka - MLYNÁROVÁ, Ludmila. Stress-induced expression of cucumber chitinase and Nicotiana plumbaginifolia beta-1,3-glucanase genes in transgenic potato plants. In *Acta Physiologiae Plantarum*, 2007, vol. 29, no. 2, p. 133-141. (0.528 - IF2006). (2007 - Current Contents). ISSN 0137-5881.

Ohlasy:

- [1.1] CEASAR, S. Antony - IGNACIMUTHU, S. Genetic engineering of crop plants for fungal resistance: role of antifungal genes. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2012, vol. 34, no. 6, pp. 995., WOS
- [3] Lagunes-Fortiz E, Robledo-Paz A, Gutiérrez-Espinosa MA, Mascorro-Gallardo JO, Espitia-Rangel E. (Genetic transformation of garlic (*Allium sativum L.*) with tobacco chitinase and glucanase genes for tolerance to the fungus *Sclerotium cepivorum*, In African Journal of Biotechnology, ISSN 1684-5315, 2013, no.12. pp. 3482-3492.
- [3.1] SINGH, D. - TEOTIA, S. Fungal Disease Management in Plants. In: GAUR, R. K. - SHARMA, P. (eds.) Approaches to Plant Stress and their Management. Springer India, 2014.

ADCA105 MÜLLER, J. - MENZEL, D. - ŠAMAJ, Jozef. Cell-type-specific disruption and recovery of the cytoskeleton in *Arabidopsis thaliana* epidermal root cells upon heat shock stress. In *Protoplasma*, 2007, vol. 230, no. 3-4, p. 231-242. (1.333 - IF2006). (2007 - Current Contents). ISSN 0033-183X.

Ohlasy:

- [1.1] DYACHOK, Julia - SPARKS, J. Alan - LIAO, Fuqi - WANG, Yuh-Shuh - BLANCAFLORE, Elison B. Fluorescent protein-based reporters of the actin cytoskeleton in living plant cells: Fluorophore variant, actin binding domain, and promoter considerations. In CYTOSKELETON. ISSN 1949-3584, 2014, vol. 71, no. 5, pp. 311., WOS
- [1.1] HORVATH, Ibolya - GLATZ, Attila - NAKAMOTO, Hitoshi - MISHKIND, Michael L. - MUNNIK, Teun - SAIDI, Younousse - GOLOUBINOFF, Pierre - HARWOOD, John L. - VIGH, Laszlo. Heat shock response in photosynthetic organisms: Membrane and lipid connections. In PROGRESS IN LIPID RESEARCH, 2012, vol.51, no.3, 208., WOS
- [1.1] KANIEWSKA, Paulina - CAMPBELL, Paul R. - KLINE, David I. - RODRIGUEZ-LANETTY, Mauricio - MILLER, David J. - DOVE, Sophie - HOEGH-GULDBERG, Ove. Major Cellular and Physiological Impacts of Ocean Acidification on a Reef Building Coral. In PLOS ONE, 2012, vol.7, no.4., WOS
- [1.1] KENKEL, Carly D. - AGLYAMOVA, Galina - ALAMARU, Ada - BHAGOOLI, Ranjeet - CAPPER, Roxana - CUNNING, Ross - DEVILLERS, Amanda - HASLUN, Joshua A. - HEDOUIN, Laetitia - KESHAVMURTHY, Shashank - KUEHL, Kristin A. - MAHMOUD, Huda - MCGINTY, Elizabeth S. - MONTOYA-MAYA, Phanor H. - PALMER, Caroline V. - PANTILE, Raffaella - SANCHEZ, Juan A. - SCHILS, Tom - SILVERSTEIN, Rachel N. - SQUIERS, Logan B. - TANG, Pei-Ciao - GOULET, Tamar L. - MATZ, Mikhail V. Development of Gene Expression Markers of Acute Heat-Light Stress in Reef-Building Corals of the Genus *Porites*. In PLOS ONE, 2011, vol.6, no.10., WOS
- [1.1] LIU, Shang Gang - ZHU, Dong Zi - CHEN, Guang Hui - GAO, Xin-Qi - ZHANG, Xian Sheng. Disrupted actin dynamics trigger an increment in the reactive oxygen species levels in the *Arabidopsis* root under salt stress. In PLANT CELL REPORTS, 2012, vol.31, no.7, 1219., WOS
- [1.1] SAIDI, Younousse - FINKA, Andrija - GOLOUBINOFF, Pierre. Heat perception and signalling in plants: a tortuous path to thermotolerance. In NEW PHYTOLOGIST, 2011, vol.190, no.3, 556-565., WOS

[1.1] WANG, Jue - QIAN, Dong - FAN, Tingting - JIA, Honglei - AN, Lizhe - XIANG, Yun. Arabidopsis actin capping protein (AtCP) subunits have different expression patterns, and downregulation of AtCPB confers increased thermotolerance of Arabidopsis after heat shock stress. In *PLANT SCIENCE*, 2012, vol.193, no., 110., WOS

ADCA106 MÜLLER, J. - METTBACH, U. - MENZEL, D. - ŠAMAJ, Jozef. Molecular dissection of endosomal compartments in plants. In *Plant Physiology*, 2007, vol. 145, no. 2, p. 293-304. (6.125 - IF2006). ISSN 0032-0889.

Ohlasy:

[1.1] BAR, Maya - LEIBMAN, Meirav - SCHUSTER, Silvia - PITZHADZA, Hilla - AVNI, Adi. EHD1 Functions in Endosomal Recycling and Confers Salt Tolerance. In *PLOS ONE*. ISSN 1932-6203, 2013, vol. 8, no. 1, pp., WOS

[1.1] CAI, Yi - ZHUANG, Xiaohong - GAO, Caiji - WANG, Xiangfeng - JIANG, Liwen. The Arabidopsis Endosomal Sorting Complex Required for Transport III Regulates Internal Vesicle Formation of the Prevacuolar Compartment and Is Required for Plant Development. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2014, vol. 165, no. 3, pp. 1328., WOS

[1.1] VOINICIUC, Catalin - DEAN, Gillian H. - GRIFFITHS, Jonathan S. - KIRCHSTEIGER, Kerstin - HWANG, Yeen Ting - GILLETT, Alan - DOW, Graham - WESTERN, Tamara L. - ESTELLE, Mark - HAUGHN, George W. FLYING SAUCER1 Is a Transmembrane RING E3 Ubiquitin Ligase That Regulates the Degree of Pectin Methylesterification in Arabidopsis Seed Mucilage. In *PLANT CELL*. ISSN 1040-4651, 2013, vol. 25, no. 3, pp. 944., WOS

ADCA107 NANJO, Y. - ŠKULTÉTY, Ľudovít - UVÁČKOVÁ, Ľubica - KLUBICOVÁ, Katarína - HAJDUCH, Martin - KOMATSU, S. Mass spectrometry-based analysis of proteomic changes in the root tips of flooded soybean seedlings. In *Journal of Proteome Research*, 2012, vol. 11, no.1, p. 372-385. (5.113 - IF2011). (2012 - Current Contents). ISSN 1535-3893.

Ohlasy:

[1.1] Barkla, BJ (Barkla, Bronwyn J.)[ 1 ] ; Vera-Estrella, R (Vera-Estrella, Rosario)[ 1 ] ; Pantoja, O (Pantoja, Omar) Progress and challenges for abiotic stress proteomics of crop plants PROTEOMICS Volume: 13 Issue: 12-13 Pages: 1801-1815 , 2013, WOS

[1.1] Dam, S (Dam, Svend)[ 1,2 ] ; Dyrlund, TF (Dyrlund, Thomas F.)[ 1 ] ; Ussatjuk, A (Ussatjuk, Anna)[ 1,2 ] ; Jochimsen, B (Jochimsen, Bjarne)[ 1,2 ] ; Nielsen, K (Nielsen, Kasper)[ 3 ] ; Goffard, N (Goffard, Nicolas)[ 4 ] ; Ventosa, M (Ventosa, Miguel)[ 1,2 ] ; Lorentzen, A (Lorentzen, Andrea)[ 5 ] ; Gupta, V (Gupta, Vikas)[ 1,2 ] ; Andersen, SU (Andersen, Stig U.)[ 1,2 ] ; Enghild, JJ (Enghild, Jan J.)[ 1 ] ; Ronson, CW (Ronson, Clive W.)[ 2,6 ] ; Roepstorff, P (Roepstorff, Peter)[ 5 ] ; Stougaard, J Proteome reference maps of the Lotus japonicus nodule and root PROTEOMICS Volume: 14 Issue: 2-3 Pages: 230-240, 2014, WOS

[1.1] DAM, Svend - STOUGAARD, Jens - TABATA, S - STOUGAARD, J. Proteomics. In *LOTUS JAPONICUS GENOME*. ISSN 2199-4781, 2014, vol., no., pp. 201., WOS

[1.1] Han, Chao; Wang, Kun; Yang, Pingfang Gel-Based Comparative

Phosphoproteomic Analysis on Rice Embryo During Germination PLANT AND CELL PHYSIOLOGY Volume: 55 Issue: 8 Pages: 1376-1394 Published: AUG 2014, WOS

[1.1] CHANG, De - ZHU, Yuanfang - AN, Li - LIU, Jinwen - SU, Longxiang - GUO, Yinghua - CHEN, Zhenhong - WANG, Yajuan - WANG, Li - WANG, Junfeng - LI, Tianzhi - FANG, Xiangqun - FANG, Chengxiang - YANG, Ruifu - LIU, Changting. A multi-omic analysis of an Enterococcus faecium mutant reveals specific genetic mutations and dramatic changes in mRNA and protein expression. In BMC MICROBIOLOGY. ISSN 1471-2180, 2013, vol. 13, no., pp., WOS

[1.1] Li, MW (Li, Man-Wah); Qi, XP (Qi, Xinpeng); Ni, M (Ni, Meng); Lam, HM (Lam, Hon-Ming)[ 1 ] Silicon Era of Carbon-Based Life: Application of Genomics and Bioinformatics in Crop Stress Research INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 14 Issue: 6 Pages: 11444-11483, 2013, WOS

[1.1] RAMPITSCH, Christof - BYKOVA, Natalia V. The beginnings of crop phosphoproteomics: exploring early warning systems of stress. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2012, vol. 3, no., pp., WOS

[1.1] Shi, HT (Shi, Haitao)[ 1 ] ; Ye, TT (Ye, Tiantian)[ 1,2 ] ; Chan, ZL (Chan, Zhulong) Comparative Proteomic and Physiological Analyses Reveal the Protective Effect of Exogenous Polyamines in the Bermudagrass (*Cynodon dactylon*) Response to Salt and Drought Stresses JOURNAL OF PROTEOME RESEARCH Volume: 12 Issue: 11 Pages: 4951-4964, 2013, WOS

[1.1] SUBRAMANIAN, Sowmyalakshmi - SMITH, Donald L. A Proteomics Approach to Study Soybean and Its Symbiont *Bradyrhizobium japonicum* A Review. In COMPREHENSIVE SURVEY OF INTERNATIONAL SOYBEAN RESEARCH GENETICS, PHYSIOLOGY, AGRONOMY AND NITROGEN RELATIONSHIPS, 2013, vol., no., pp. 3., WOS

[1.1] Tamang, BG (Tamang, Bishal G.)[ 1 ] ; Magliozzi, JO (Magliozzi, Joseph O.)[ 1 ] ; Maroof, MAS (Maroof, M. A. Saghai)[ 1 ] ; Fukao, T Physiological and transcriptomic characterization of submergence and reoxygenation responses in soybean seedlings PLANT CELL AND ENVIRONMENT Volume: 37 Issue: 10 Pages: 2350-2365 Special Issue: SI, 2014, WOS

[1.1] TOPOLCAN, O. - KINKROVA, J. - KARLIKHOVA, M. - SVOBODOVA, S. - FUCHSOVA, R. Specialised education for personalized medicine why? In PROCEEDINGS OF THE II INTERNATIONAL CONFERENCE ON ENVIRONMENTAL STRESSORS IN BIOLOGY AND MEDICINE INTERNATIONAL CONGRESS ON PERSONALIZED MEDICINE 4TH ASIAN PACIFIC CONGRESS ON BRONCHOLOGY AND INTERVENTIONAL PULMONOLOGY, 2012, vol., no., pp. 79., WOS

[1.2] KHAN, P. S Sha Valli - NAGAMALLAIAH, G. V. - RAO, M. Dhananjay - SERGEANT, K. - HAUSMAN, J. F. Abiotic Stress Tolerance in Plants: Insights from Proteomics. In Emerging Technologies and Management of Crop Stress Tolerance, 2014-04-16, 2, pp. 23-68., SCOPUS

ADCA108 NOCEDA, Carlos - SALAJ, Terézia - PÉREZ, Marta - VIEJO, Marcos - CANAL, Maria Jesús - SALAJ, Ján - RODRIGUEZ, Roberto. DNA demethylation and decrease on free polyamines is associated with the embryogenic capacity of

*Pinus nigra* Arn. cell culture. In *Trees-Structure and Function*, 2009, vol.23, no.6, p.1285-1293. (1.629 - IF2008). (2009 - Current Contents). ISSN 0931-1890.

Ohlasy:

- [1.1] CRISTOFOLINI, Caroline - VIEIRA, Leila do Nascimento - DE FREITAS FRAGA, Hugo Pacheco - DA COSTA, Itayguara Ribeiro - GUERRA, Miguel Pedro - PESCADOR, Rosete. DNA methylation patterns and karyotype analysis of off-type and normal phenotype somatic embryos of feijoa. In *THEORETICAL AND EXPERIMENTAL PLANT PHYSIOLOGY*. ISSN 2197-0025, 2014, vol. 26, no. 3-4, pp. 217., WOS
- [1.1] Dutra, N.T.- Silveira, V.- de Azevedo, I.G.- Gomes-Neto, L.R.- Facanha, A.R.- Steiner, N.-Guerra, M.P.- Floh, E.I.S.- Santa-Catarina, C. Polyamines affect the cellular growth and structure of pro-embryogenic masses in Araucaria angustifolia embryogenic cultures through the modulation of proton pump activities and endogenous levels of polyamines. In *PHYSIOLOGIA PLANTARUM*, 2013, vol. 148, no. 1, pp. 121-132., WOS
- [1.1] FRAGA, Hugo P. F. - VIEIRA, Leila N. - CAPRESTANO, Clarissa A. - STEINMACHER, Douglas A. - MICKE, Gustavo A. - SPUDEIT, Daniel A. - PESCADOR, Rosete - GUERRA, Miguel P. 5-Azacytidine combined with 2,4-D improves somatic embryogenesis of Acca sellowiana (O. Berg) Burret by means of changes in global DNA methylation levels. In *PLANT CELL REPORTS*. ISSN 0721-7714, 2012, vol. 31, no. 12, pp. 2165., WOS
- [1.1] HERINGER, Angelo S. - STEINMACHER, Douglas A. - FRAGA, Hugo P. F. - VIEIRA, Leila N. - MONTAGNA, Tiago - QUING, Liliana A. P. - QUOIRIN, Marguerite G. G. - JIMENEZ, Victor M. - GUERRA, Miguel P. Improved high-efficiency protocol for somatic embryogenesis in Peach Palm (*Bactris gasipaes* Kunth) using RITA (R) temporary immersion system. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2014, vol. 179, no., pp. 284., WOS
- [1.1] JO, Leonardo - DOS SANTOS, Andre L. W. - BUENO, Caroline A. - BARBOSA, Heloisa R. - FLOH, Eny I. S. Proteomic analysis and polyamines, ethylene and reactive oxygen species levels of Araucaria angustifolia (Brazilian pine) embryogenic cultures with different embryogenic potential. In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2014, vol. 34, no. 1, pp. 94., WOS
- [1.1] LUIS CASAS, Jose - ANJUM, NA - GILL, SS - GILL, R. Polyamines in Plant In Vitro Culture. In *PLANT ADAPTATION TO ENVIRONMENTAL CHANGE: SIGNIFICANCE OF AMINO ACIDS AND THEIR DERIVATIVES*, 2014, vol., no., pp. 266., WOS
- [1.1] Mankessi, F. - Saya, A.R. - Favreau, B. - Doulbeau, S. - Conejero, G. - Lartaud, M. - Verdeil, J.L. - Monteuijs, O. Variations of DNA methylation in *Eucalyptus urophylla* x *Eucalyptus grandis* shoot tips and apical meristems of different physiological ages. In *PHYSIOLOGIA PLANTARUM*, 2011, vol.143, no. 2, p. 178-187.
- [1.1] MARTINEZ, Teresa - VIDAL, Nieves - BALLESTER, Antonio - VIEITEZ, Ana M. Improved organogenic capacity of shoot cultures from mature pedunculate oak trees through somatic embryogenesis as rejuvenation technique. In *TREES-STRUCTURE AND FUNCTION*. ISSN 0931-1890, 2012, vol. 26, no. 2, pp. 321., WOS
- [1.1] Nic-Can, G.I. - Lopez-Torres, A.- Barredo-Pool, F.- Wrobel, K.- Loyola-Vargas, V.M.- Rojas-Herrera, R.- De-la-Pena, C. New Insights into Somatic Embryogenesis: LEAFY COTYLEDON1, BABY BOOM1 and

WUSCHEL-RELATED HOMEOBOX4 Are Epigenetically Regulated in Coffea canephora. In PLOS ONE, 2013, vol. 8, no. 8, Art. Number: e72160., WOS  
[1.1] TEYSSIER, Caroline - MAURY, Stephane - BEAUFOUR, Martine - GRONDIN, Cecile - DELAUNAY, Alain - LE METTE, Claire - ADER, Kevin - CADENE, Martine - LABEL, Philippe - LELU-WALTER, Marie-Anne. In search of markers for somatic embryo maturation in hybrid larch (Larix x eurolepis): global DNA methylation and proteomic analyses. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2014, vol. 150, no. 2, pp. 271., WOS  
[1.2] KRAJNÁKOVÁ, Jana - BERTOLINI, Alberto - GÖMÖRY, Dušan - VIANELLO, Angelo - HÄGGMAN, Hely M. Initiation, long-term cryopreservation, and recovery of Abies alba Mill. embryogenic cell lines. In In Vitro Cellular and Developmental Biology Plant. ISSN 10545476, 2013-11-01, 49, 5, pp. 560-571., SCOPUS

ADCA109 OBERT, Bohuš - BARNABÁS, B. Colchicine induced embryogenesis in maize. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2004, vol. 77, no. 3, p. 283-285. ISSN 0167-6857.

Ohlasy:

- [1.1] ARDEBILI, Samad Habibzadeh - SHARIATPANAHI, Mehran E. - AMIRI, Reza - EMAMIFAR, Mona - OROOJLOO, Mahnaz - NEMATZADEH, Ghorbanali - NOORI, Seyed Ahmad Sadat - HEBERLE-BORS, Erwin. Effect of 2,4-D as a Novel Inducer of Embryogenesis in Microspores of Brassica napus L. In CZECH JOURNAL OF GENETICS AND PLANT BREEDING, 2011, vol.47, no.3, 114., WOS
- [1.1] GERMANA, Maria Antonietta. Anther culture for haploid and doubled haploid production. In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.104, no.3, 283., WOS
- [1.1] ISLAM, S. M. Shahinul - TUTEJA, Narendra. Enhancement of androgenesis by abiotic stress and other pretreatments in major crop species. In PLANT SCIENCE. ISSN 0168-9452, 2012, vol. 182, no., pp. 134., WOS
- [1.1] TAPINGKAE, Tanya - ZULKARNAIN, Zul - KAWAGUCHI, Masayo - IKEDA, Takashi - TAJI, Acram - ALTMAN, A - HASEGAWA, PM. Somatic (asexual) procedures (haploids, protoplasts, cell selection) and their applications. In PLANT BIOTECHNOLOGY AND AGRICULTURE: PROSPECTS FOR THE 21ST CENTURY, 2012, vol., no., pp. 141., WOS

ADCA110 OBERT, Bohuš - ŽÁČKOVÁ, Zuzana - ŠAMAJ, Jozef - PREŤOVÁ, Anna. Doubled haploid production in Flax ( Linum usitatissimum L. ). In *Biotechnology Advances*, 2009, vol. 27, no.4, p. 371-375. (6.110 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0734-9750.

Ohlasy:

- [1.1] FERRIE, A. M. R. - CASWELL, K. L. Isolated microspore culture techniques and recent progress for haploid and doubled haploid plant production. In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.104, no.3, 301-309., WOS
- [1.1] ISLAM, S. M. Shahinul - TUTEJA, Narendra. Enhancement of androgenesis by abiotic stress and other pretreatments in major crop species. In PLANT SCIENCE, 2012, vol.182, no., 134-144., WOS
- [1.1] PAVELEK, M. - TEJKLOVA, E. - ONDREJ, M. - VRBOVA, M. - KOZLOWSKI, RM. Developments in fibrous flax breeding and cultivation. In

HANDBOOK OF NATURAL FIBRES, VOL 1: TYPES, PROPERTIES AND FACTORS AFFECTING BREEDING AND CULTIVATION. ISSN 2042-0803, 2012, vol., no. 118, pp. 393., WOS

ADCA111 OBERT, Bohuš - PREŤOVÁ, Anna - BUTER, B. - SCHMID, J.E. Effect of different saccharides on viability of isolated microspores and androgenic induction in Zea mays. In *Biologia Plantarum : international journal*, 2000, vol. 43, no. 1, p. 125-128. (0.414 - IF1999). (2000 - Current Contents). ISSN 0006-3134.

Ohlasy:

[1.1] WANG, Shimin - LI, Xiaolu - YANG, Lili - WU, Hongzhi - ZHENG, Sixiang - ZHANG, Xiyan - ZHANG, Lemin. Microspore culture of Zantedeschia aethiopica: The role of monosaccharides in sporophytic development. In AFRICAN JOURNAL OF BIOTECHNOLOGY, 2011, vol.10, no.50, 10287., WOS

[1.1] WINARTO, Budi - DA SILVA, Jaime A. Teixeira. Influence of isolation technique of half-anthers and of initiation culture medium on callus induction and regeneration in Anthurium andreanum. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 110, no. 3, pp. 401., WOS

ADCA112 OBERT, Bohuš - DEDIČOVÁ, B. - HRICOVÁ, Andrea - ŠAMAJ, Jozef - PREŤOVÁ, Anna. Flax anther culture: effect of genotype, cold treatment and media. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2004, vol. 79, no. 2, p. 233-238. ISSN 0167-6857.

Ohlasy:

[1.1] BURBULIS, Natalija - BLINSTROUBIENE, Ausra - KUPIRENE, Ramune. Effect of genotype and medium composition on linseed (*Linum usitatissimum*) ovary culture. In BIOLOGIA, 2011, vol.66, no.3, 465-469., WOS

[1.1] BURBULIS, Natalija - BLINSTROUBIENE, Ausra. Genotypic and exogenous factors affecting linseed (*Linum usitatissimum L.*) anther culture. In JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, 2011, vol.9, no.3-4, 364-367., WOS

[1.1] BURBULIS, Natalija - BLINSTROUBIENE, Ausra - MASIENE, Ramune - JONYTIENE, Vaida. Influence of genotype, growth regulators and sucrose concentration on linseed (*Linum usitatissimum L.*) anther culture. In JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT. ISSN 1459-0255, 2012, vol. 10, no. 3-4, pp. 764., WOS

[1.1] ISLAM, S. M. Shahinul - TUTEJA, Narendra. Enhancement of androgenesis by abiotic stress and other pretreatments in major crop species. In PLANT SCIENCE, 2012, vol.182, no., 134-144., WOS

[1.1] KUO, Chao-Lin - CHANG, Jun-Yi - CHANG, Hung-Chi - GUPTA, Sushim Kumar - CHAN, Hsiao-Sung - CHEN, Emily Chin-Fun - TSAY, Hsin-Sheng. In vitro production of benzylisoquinoline from Stephania tetrandra through callus culture under the influence of different additives. In BOTANICAL STUDIES, 2011, vol.52, no.3, 285-294., WOS

[1.1] PAVELEK, M. - TEJKLOVA, E. - ONDREJ, M. - VRBOVA, M. - KOZLOWSKI, RM. Developments in fibrous flax breeding and cultivation. In HANDBOOK OF NATURAL FIBRES, VOL 1: TYPES, PROPERTIES AND FACTORS AFFECTING BREEDING AND CULTIVATION. ISSN 2042-0803, 2012, vol., no. 118, pp. 393., WOS

- [1.1] SHAHVALI-KOHSHOUR, Roohollah - MOIENI, Ahmad - BAGHIZADEH, Amin. Positive effects of cold pretreatment, iron source, and silver nitrate on anther culture of strawberry (*Fragaria x ananassa* Duch.). In *PLANT BIOTECHNOLOGY REPORTS*. ISSN 1863-5466, 2013, vol. 7, no. 4, pp. 481., WOS
- [1.1] SZECHYNSKA-HEBDA, Magdalena - SKRZYPEK, Edyta - DABROWSKA, Grazyna - WEDZONY, Maria - VAN LAMMEREN, Andre. The effect of endogenous hydrogen peroxide induced by cold treatment in the improvement of tissue regeneration efficiency. In *ACTA PHYSIOLOGIAE PLANTARUM*, 2012, vol.34, no.2, 547., WOS
- [1.2] HAQUE, Mojidul - SHAHINUL ISLAM, S. M. Application of cold pretreatment and optimisation of media for enhancement of anther culture response in two barley (*Hordeum vulgare* L.) genotypes derived from Bangladesh. In *Asia-Pacific Journal of Molecular Biology and Biotechnology*. ISSN 01287451, 2014-01-01, 22, 1, pp. 127-136., SCOPUS

ADCA113 OBERT, Bohuš - BENSON, E. - MILLAM, S. - PREŤOVÁ, Anna - BREMNER, D. Moderation of morphogenetic and oxidative stress responses in flax in vitro cultures by hydroxynonenal and desferrioxamine. In *Journal of Plant Physiology*, 2005, vol. 162, no. 5, p. 537-547. (1.054 - IF2004). ISSN 0176-1617.

Ohlasy:

- [1.1] BERJAK, Patricia - SERSHEN - VARGHESE, Boby - PAMMENTER, N. W. Cathodic amelioration of the adverse effects of oxidative stress accompanying procedures necessary for cryopreservation of embryonic axes of recalcitrant-seeded species. In *SEED SCIENCE RESEARCH*, 2011, vol.21, no.3, 187., WOS
- [1.1] DHIR, Richa - SHEKHAWAT, G. S. Ecorehabilitation and biochemical studies of *Ceropegia bulbosa* Roxb.: a threatened medicinal succulent. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2014, vol. 36, no. 6, pp. 1335., WOS
- [1.1] DHIR, Richa - SHEKHAWAT, G. S. - ALAM, Afroz. Improved Protocol for Somatic Embryogenesis and Calcium Alginate Encapsulation in *Anethum graveolens* L.: A Medicinal Herb. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2014, vol. 173, no. 8, pp. 2267., WOS
- [1.1] DIAZ-VIVANCOS, Pedro - MAJOURHAT, Khalid - ANTONIO FERNANDEZ, Jose - ANTONIO HERNANDEZ, Jose - PIQUERAS, Abel. Study of the antioxidant enzymatic system during shoot development from cultured intercalar meristems of saffron. In *PLANT GROWTH REGULATION*, 2011, vol.65, no.1, 119., WOS
- [1.1] LOPEZ-ORENES, Antonio - ROS-MARIN, Antonio F. - FERRER, Maria A. - CALDERON, Antonio A. Antioxidant Capacity as a Marker for Assessing the In Vitro Performance of the Endangered *Cistus heterophyllus*. In *SCIENTIFIC WORLD JOURNAL*. ISSN 1537-744X, 2013, Article Number: 176295., WOS
- [1.1] MA, Li - XIE, Lijun - LIN, Guimei - JIANG, Shuang - CHEN, Houbin - LI, Huaping - TAKAC, Tomas - SAMAJ, Jozef - XU, Chunxiang. Histological changes and differences in activities of some antioxidant enzymes and hydrogen peroxide content during somatic embryogenesis of *Musa AAA* cv. *Yueyoukang 1*. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2012, vol. 144, no., pp.

87., WOS

- [1.1] PIOVAN, Anna - CASSINA, Giancarlo - FILIPPINI, Raffaella. *Crambe tataria: actions for ex situ conservation.* In *BIODIVERSITY AND CONSERVATION*, 2011, vol.20, no.2, 359., WOS
- [1.1] SIEGIEN, Irena - ADAMCZUK, Aneta - WROBLEWSKA, Katarzyna. Light affects in vitro organogenesis of *Linum usitatissimum L.* and its cyanogenic potential. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2013, vol. 35, no. 3, pp. 781., WOS
- [1.1] VATANKHAH, E. - NIKNAM, V. - EBRAHIMZADEH, H. Histological and biochemical parameters of *Crocus sativus* during in vitro root and shoot organogenesis. In *BIOLOGIA PLANTARUM*. ISSN 0006-3134, 2014, vol. 58, no. 2, pp. 201., WOS

ADCA114 OBERT, Bohuš - PÓNYA, Zs. - PREŤOVÁ, Anna - BARNABÁS, B. Optimization of electroporation conditions for maize microspores. In *MAYDICA Vol.49, no. 1 (2004)*, p. 15-19. ISSN 0025-6153.

Ohlasy:

- [1.1] BREW-APPIAH, Rhoda A. T. - ANKRAH, Nii - LIU, Weiguo - KONZAK, Calvin F. - VON WETTSTEIN, Diter - RUSTGI, Sachin. Generation of Doubled Haploid Transgenic Wheat Lines by Microspore Transformation. In *PLOS ONE*. ISSN 1932-6203, 2013, vol. 8, no. 11, pp., WOS
- [1.2] MAGHARI, B.M. - ARDEKANI, A.M. Genetically modified foods and social concerns. In *Avicenna Journal of Medical Biotechnology*, 2011, vol.3, no.3, 109-117., SCOPUS

ADCA115 OLIVIUSSON, P. - SALAJ, Ján - HAKMAN, I. Expression pattern of transcripts encoding water channel-like proteins in Norway spruce (*Picea abies*). In *PLANT MOL BIOL. Vol.46, no. 3 (2001)*, p.289-299. ISSN 0167-4412.

Ohlasy:

- [1.1] COHEN, David - BOGEAT-TRIBOULOT, Marie-Beatrice - VIALET-CHABRAND, Silvere - MERRET, Remy - COURTY, Pierre-Emmanuel - MORETTI, Sébastien - BIZET, Francois - GUILLIOT, Agnes - HUMMEL, Irene. Developmental and Environmental Regulation of Aquaporin Gene Expression across *Populus* Species: Divergence or Redundancy? In *PLOS ONE*. ISSN 1932-6203, 2013, vol. 8, no. 2, pp., WOS
- [1.1] LAUR, Joan - HACKE, Uwe G. Exploring *Picea glauca* aquaporins in the context of needle water uptake and xylem refilling. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2014, vol. 203, no. 2, pp. 388., WOS
- [1.1] PRADO, Karine - MAUREL, Christophe. Regulation of leaf hydraulics: from molecular to whole plant levels. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS

ADCA116 ONDRUŠKOVÁ, Emília - OSTROLUCKÁ, Mária-Gabriela - HRAŠKA, Š. Influence of zeatin and 2iP on in vitro propagation of *Vaccinium vitis-idaea* L. In *Propagation of Ornamental Plants*, 2006, vol. 6, no. 4, p. 194-200. ISSN 1311-9109.

Ohlasy:

- [3.1] Janarthanam, B.- Sumathi, E. High Frequency Shoot Regeneration from Internodal Explants of *Santalum album* L. In *International Journal of Botany*, 2011, vol. 7, no. 3, p. 249-254.

ADCA117 OSTROLUCKÁ, Mária-Gabriela - GAJDOŠOVÁ, Alena - ONDRUŠKOVÁ, Emília - SÚKENÍKOVÁ, Miroslava - LIBIAKOVÁ, Gabriela. Effect of Medium pH on Axillary Shoot Proliferation of Selected *Vaccinium vitis-idaea* L. Cultivars. In *Acta Biologica Cracoviensia. Series Botanica*, 2010, vol. 52, no. 2, p. 98-102. (0.571 - IF2009). (2010 - Current Contents). ISSN 0001-5296.

Ohlasy:

- [1.1] MARKOVIC, Marija - GRBIC, Mihail - DJUKIC, Matilda. Micropropagation of the Endangered and Decorative Specie *Dianthus serotinus* Waldst. et Kit. In *NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA*. ISSN 0255-965X, 2013, vol. 41, no. 2, pp. 370., WOS

ADCA118 OSTROLUCKÁ, Mária-Gabriela - KRAJMEROVÁ, D. Manifestation of Embryogenic Potential in Culture of Zygotic Embryos of *Quercus robur* L. In *Acta Societatis Botanicorum Poloniae*, 1996, vol.65, no. 1-2, p. 37-41. ISSN 0001-6977.

Ohlasy:

- [1.1] Naouar, Ben - Ali; Ahmed, Lamarti. Macronutrients Effect on Secondary Somatic Embryogenesis of Moroccan Cork Oak (*Quercus suber* L.). In *American Journal of Plant Sciences*, 2014, vol. 5, p. 1851-1861., WOS

ADCA119 OVEČKA, Miroslav - BOBÁK, Milan - ŠAMAJ, Jozef. A comparative structural analysis of direct and indirect shoot regeneration of *Papaver somniferum* L. in vitro. In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*, 2000, vol. 157, no. 3, p. 281-289. (2000 - Current Contents). ISSN 0176-1617.

Ohlasy:

- [1.1] PERVEEN, S. - ANIS, M. Encapsulation of internode regenerated adventitious shoot buds of Indian Siris in alginate beads for temporary storage and twofold clonal plant production. In *Acta Physiologiae Plantarum*, 2014, vol. 36, no. 8, pp. 2067. ISSN 0137-5881., WOS

ADCA120 PIRŠELOVÁ, Beáta - KUNA, Roman - LIBANTOVÁ, Jana - MORAVČÍKOVÁ, Jana - MATUŠÍKOVÁ, Ildikó. Biochemical and physiological comparison of heavy metal-triggered defense responses in the monocot maize and dicot soybean roots. In *Molecular Biology Reports*, 2011, vol. 38, no. 5, p. 3437-3446. (1.875 - IF2010). (2011 - Current Contents). ISSN 0301-4851.

Ohlasy:

- [1.1] LUKACOVA, Zuzana - SVUBOVA, Renata - KOHANOVA, Jana - LUX, Alexander. Silicon mitigates the Cd toxicity in maize in relation to cadmium translocation, cell distribution, antioxidant enzymes stimulation and enhanced endodermal apoplastic barrier development. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2013, vol. 70, no. 1, pp. 89., WOS
- [1.1] VACULIK, Marek - LANDBERG, Tommy - GREGER, Maria - LUXOVA, Miroslava - STOLARIKOVA, Miroslava - LUX, Alexander. Silicon modifies root anatomy, and uptake and subcellular distribution of cadmium in young maize plants. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2012, vol. 110, no. 2, pp. 433., WOS

- [1.2] PÉREZ-CHACA, María Verónica - RODRÍGUEZ-SERRANO, María - MOLINA, Alicia S. - PEDRANZANI, Hilda E. - ZIRULNIK, Fanny - SANDALIO, Luisa M. - ROMERO-PUERTAS, María C. Cadmium induces two

- waves of reactive oxygen species in *Glycine max* (L.) roots. In *Plant, Cell and Environment*. ISSN 01407791, 2014-01-01, 37, 7, pp. 1672-1687., SCOPUS
- [1.2] RAY, S. - KAPOOR, S. - TYAGI, A.K. Analysis of transcriptional and upstream regulatory sequence activity of two environmental stress-inducible genes, NBS-Str1 and BLEC-Str8, of rice. In *Transgenic Research*, 2012, 21, 2, pp. 351-366., SCOPUS
- [1.2] WAN, L. - ZHANG, H. Cadmium toxicity effects on cytoskeleton, vesicular trafficking and cell wall construction. In *Plant Signaling and Behavior*, 2012, 7, 3, pp., SCOPUS
- [3] Pourrut, B. - Shahid, M. - Douay, F. - Dumat, C. - Pinelli, E. Molecular mechanisms involved in lead uptake, toxicity and detoxification in higher plants. In *Heavy Metal Stress in Plants*, , Springer, ISBN 978-3-642-38469-1, 2013, pp 121-147.

ADCA121 PIRŠELOVÁ, Beáta - MATUŠÍKOVÁ, Ildikó. Callose: The plant cell wall polysaccharide with multiple biological functions. In *Acta Physiologiae Plantarum*, 2013, vol. 35, no. 3, p. 635-644. (1.305 - IF2012). (2013 - Current Contents). ISSN 0137-5881.

Ohlasy:

- [1.1] AZNAR, Aude - CHEN, Nicolas W. G. - RIGAULT, Martine - RIACHE, Nassima - JOSEPH, Delphine - DESMAELE, Didier - MOUILLE, Gregory - BOUTET, Stephanie - SOUBIGOU-TACONNAT, Ludivine - RENOU, Jean-Pierre - THOMINE, Sébastien - EXPERT, Dominique - DELLAGI, Alia. Scavenging Iron: A Novel Mechanism of Plant Immunity Activation by Microbial Siderophores [C][W]. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2014, vol. 164, no. 4, pp. 2167., WOS
- [1.1] CHOWDHURY, Jamil - HENDERSON, Marilyn - SCHWEIZER, Patrick - BURTON, Rachel A. - FINCHER, Geoffrey B. - LITTLE, Alan. Differential accumulation of callose, arabinoxylan and cellulose in nonpenetrated versus penetrated papillae on leaves of barley infected with *Blumeria graminis* f. sp hordei. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2014, vol. 204, no. 3, pp. 650., WOS
- [1.1] LI, Caiqin - WANG, Yan - HUANG, Xuming - LI, Jiang - WANG, Huicong - LI, Jianguo. De novo assembly and characterization of fruit transcriptome in *Litchi chinensis* Sonn and analysis of differentially regulated genes in fruit in response to shading. In *BMC GENOMICS*. ISSN 1471-2164, 2013, vol. 14, no., pp., WOS
- [1.1] TOO, E. J. - CARLSSON, A. S. - ONKWARE, A. O. - WERE, B. A. - GELETA, M. - BRYNGELSSON, T. - GUDU, S. Cell membrane integrity, callose accumulation, and root growth in aluminum-stressed sorghum seedlings. In *BIOLOGIA PLANTARUM*. ISSN 0006-3134, 2014, vol. 58, no. 4, pp. 768., WOS
- [1.1] TUCKER, Matthew R. - KOLTUNOW, Anna M. G. Traffic monitors at the cell periphery: the role of cell walls during early female reproductive cell differentiation in plants. In *CURRENT OPINION IN PLANT BIOLOGY*. ISSN 1369-5266, 2014, vol. 17, no., pp. 137., WOS
- [1.2] GIANNOUTSOU, Eleni P. - SOTIRIOU, Penelope - APOSTOLAKOS, Panagiotis - GALATIS, Basil D. Early local differentiation of the cell wall matrix defines the contact sites in lobed mesophyll cells of *Zea mays*. In *Annals of Botany*. ISSN 03057364, 2013-10-01, 112, 6, pp. 1067-1081., SCOPUS

ADCA122 PREŤOVÁ, Anna - WILLIAMS, E.G. Direct somatic embryogenesis from immature zygotic embryos of flax ( *Linum-usita tissimum L.* ). In *Journal of Plant Physiology*, 1986, vol.126, no. 2-3, p. 155-161. ISSN 0176-1617.

Ohlasy:

- [1.1] WIELGUS, K. - SZALATA, M. - SLOMSKI, R. - KOZLOWSKI, RM. Genetic engineering and biotechnology of natural textile fiber plants. In HANDBOOK OF NATURAL FIBRES, VOL 1: TYPES, PROPERTIES AND FACTORS AFFECTING BREEDING AND CULTIVATION. ISSN 2042-0803, 2012, vol., no. 118, pp. 550., WOS
- [3] GUO, Ling-Ling - MIAO, Shu-Kui - JI, Qiao-Ling - JIANG, Li. High Frequency Somatic Embryogenesis and Histological Observation on *Linum usitatissimum L.* 'Fany'. In Bulletin of Botanical Research, 2011, vol. 31, no. 3, p. 306-312.
- [3] Janowicz, Jowita - Niemann, Janetta - Wojciechowski, Andrzej. The effect of growth regulators on the regeneration ability of flax (*Linum usitatissimum L.*) hypocotyl explants in in vitro culture. In Biotechnologia, 2012, vol. 93, no. 2, p.135-138.

ADCA123 PREŤOVÁ, Anna - OBERT, Bohuš. Flax (*Linum usitatissimum L.*) - A plant system for study of embryogenesis. In *Acta Biologica Cracoviensia.Series Botanica*, 2003, vol. 45, no.1, p. 15-18. ISSN 0001-5296.

Ohlasy:

- [1.1] PIOVAN, Anna - CASSINA, Giancarlo - FILIPPINI, Raffaella. *Crambe tataria*: actions for ex situ conservation. In BIODIVERSITY AND CONSERVATION, 2011, vol.20, no.2, 359., WOS

ADCA124 PREŤOVÁ, Anna - OBERT, Bohuš - BARTOŠOVÁ, Zuzana. Haploid formation in maize, barley, flax and potato. In *Protoplasma*, 2006, vol. 228, no. 1-3, p. 107-114. (1.573 - IF2005). (2006 - Current Contents). ISSN 0033-183X.

Ohlasy:

- [1.1] BURBULIS, Natalija - BLINSTRUBIENE, Ausra - KUPIRIENE, Ramune. Effect of genotype and medium composition on linseed (*Linum usitatissimum*) ovary culture. In BIOLOGIA, 2011, vol.66, no.3, 465., WOS
- [1.1] CULLIS, Christopher - KOLE, C. Linum. In WILD CROP RELATIVES: GENOMIC AND BREEDING RESOURCES OILSEEDS, 2011, vol., no., 177., WOS
- [1.1] IOVENE, M. - AVERSANO, R. - SAVARESE, S. - CARUSO, I. - DI MATTEO, A. - CARDI, T. - FRUSCIANTE, L. - CARPUTO, D. Interspecific somatic hybrids between *Solanum bulbocastanum* and *S. tuberosum* and their haploidization for potato breeding. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2012, vol. 56, no. 1, pp. 1., WOS
- [1.1] ISLAM, S. M. Shahinul - TUTEJA, Narendra. Enhancement of androgenesis by abiotic stress and other pretreatments in major crop species. In PLANT SCIENCE. ISSN 0168-9452, 2012, vol. 182, no., pp. 134., WOS
- [1.1] PAVELEK, M. - TEJKLOVA, E. - ONDREJ, M. - VRBOVA, M. - KOZLOWSKI, RM. Developments in fibrous flax breeding and cultivation. In HANDBOOK OF NATURAL FIBRES, VOL 1: TYPES, PROPERTIES AND FACTORS AFFECTING BREEDING AND CULTIVATION. ISSN 2042-0803, 2012, vol., no. 118, pp. 393., WOS

ADCA125 PREŤOVÁ, Anna - OBERT, Bohuš - WETYSTEIN, H.Y. Leaf developmental stage and tissue location affect the detection of beta-glucuronidase in transgenic tobacco plants. In *Biotechnology Letters*, 2001, vol.23, no.7, p .555-558. (2001 - Current Contents). ISSN 0141-5492.

Ohlasy:

- [1.1] MARENKOVA, T. V. - LOGINOVA, D. B. - DEINEKO, E. V. Mosaic Patterns of Transgene Expression in Plants. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, 2012, vol. 48, no. 3, pp. 249., WOS
- [1.1] MORK, Eline Kirk - HENRIKSEN, Karin - BRINCH-PEDERSEN, Henrik - KRISTIANSEN, Kell - PETERSEN, Karen Koefoed. An efficient protocol for regeneration and transformation of *Sympyotrichum novi-belgii*. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 108, no. 3, pp. 501., WOS

ADCA126 PREŤOVÁ, Anna - DEDIČOVÁ, B. SOMATIC EMBRYOGENESIS IN SOLANUM-TUBEROSUM L CV DESIREE FROM UNRIPE ZYGOTIC EMBRYOS. In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*, 1992, vol.139, no. 5, p.539-542. ISSN 0176-1617.

Ohlasy:

- [1.1] DOKHANIYEH, Afsaneh Yousefpour - KOHNEHROUZ, Bahram Baghban - MOUSAVI, Amir - GHOLIZADEH, Ashraf - KHALIGHI, Ahmad. Rapid and high efficiency regeneration from potato (*Solanum tuberosum* L.) using thidiazuron as cytokinin source. In JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, 2011, vol.9, no.3-4, 613., WOS
- [1.1] NASSAR, Atef M. K. - ABDULNOUR, Jihad - LECLERC, Yves - LI, Xiu-Qing - DONNELLY, Danielle J. Intraclonal Selection for Improved Processing of NB 'Russet Burbank' Potato. In AMERICAN JOURNAL OF POTATO RESEARCH, 2011, vol.88, no.5, 387., WOS

ADCA127 PREŤOVÁ, Anna - DERUIJTER, N.C.A - VANLAMMEREN, A.A.M - SCHEL, J.H.N. Structural observations during androgenic microspore culture of the 4C1 genotype of *Zea-mays* L. In *Euphytica*, 1993, vol.65, no. 1, p.61-69. ISSN 0014-2336.

Ohlasy:

- [1.1] IRIKOVA, Teodora - GROZEEVA, Stanislava - RODEVA, Velichka. Anther culture in pepper (*Capsicum annuum* L.) in vitro. In ACTA PHYSIOLOGIAE PLANTARUM, 2011, vol.33, no.5, 1559., WOS
- [1.1] UVACKOVA, Lubica - TAKAC, Tomas - BOEHM, Nils - OBERT, Bohus - SAMAJ, Jozef. Proteomic and biochemical analysis of maize anthers after cold pretreatment and induction of androgenesis reveals an important role of anti-oxidative enzymes. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2012, vol. 75, no. 6, pp. 1886., WOS

ADCA128 PREWEIN, Christine - ENDEMANN, Michaela - REINÖHL, Vilem - SALAJ, Ján - ŠUNDERLÍKOVÁ, Vanda - WILHELM, Eva. Physiological and morphological characteristics during development of pedunculate oak (*Quercus robur* L.) zygotic embryos. In *Trees:Structure and Function*, 2006, vol. 20, no. 1, p. 53-60. ISSN 0931-1890.

Ohlasy:

- [1.1] GIERTYCH, Marian J. - SUSZKA, Jan. Consequences of cutting off distal ends of cotyledons of *Quercus robur* acorns before sowing. In ANNALS OF FOREST SCIENCE, 2011, vol.68, no.2, 433., WOS
- [1.1] LIU, Yan - LIU, Guangquan - LI, Qingmei - LIU, Yong - HOU, Longyu - LI, GuoLei. Influence of Pericarp, Cotyledon and Inhibitory Substances on Sharp Tooth Oak (*Quercus aliena* var. *acuteserrata*) Germination. In PLOS ONE. ISSN 1932-6203, 2012, vol. 7, no. 10, pp., WOS
- [1.1] NAKABA, Satoshi - BEGUM, Shahanara - YAMAGISHI, Yusuke - JIN, Hyun-O - KUBO, Takafumi - FUNADA, Ryo. Differences in the timing of cell death, differentiation and function among three different types of ray parenchyma cells in the hardwood *Populus sieboldii* x *P. grandidentata*. In TREES-STRUCTURE AND FUNCTION. ISSN 0931-1890, 2012, vol. 26, no. 3, pp. 743., WOS
- [1.1] SEVER, Krunoslav - SKVORC, Zeljko - BOGDAN, Sasa - FRANJIC, Jozo - KRSTONOSIC, Daniel - ALESKOVIC, Ivana - KERESA, Snjezana - FRUK, Goran - JEMRIC, Tomislav. In vitro pollen germination and pollen tube growth differences among *Quercus robur* L. clones in response to meteorological conditions. In GRANA. ISSN 0017-3134, 2012, vol. 51, no. 1, pp. 25., WOS
- [1.2] YAN, Xing fu - FANG, Su - SHI, Chun - QIU, Zhi hu - ZHOU, Yun feng. Effects of simulated cotyledon predation on the seed germination and early seedling growth of *Quercus wutaishanica*. In Chinese Journal of Ecology. ISSN 10004890, 2014-01-01, 33, 4, pp. 973-981., SCOPUS

ADCA129 QUESADA, Victor - SARMIENTO-MAÑUS, Raquel - GONZÁLEZ-BAYÓN, Rebeca - HRICOVÁ, Andrea - PÉREZ-MARCOS, Rubén - GRACIA-MATINEZ, Eva - MEDINA-RUIZ, Laura - LEYVA-DIAZ, Eduardo - PONCE, Maria Rosa - MICOL, José Luis. *Arabidopsis RUGOSA2* encodes an mTERF family member required for mitochondrion, chloroplast and leaf development. In *Plant Journal*, 2011, vol. 68, no. 4, p. 738-753. (6.948 - IF2010). (2011 - Current Contents). ISSN 0960-7412.

Ohlasy:

- [1.1] CASANOVA-SAEZ, Ruben - MATEO-BONMATI, Eduardo - KANGASJAERVI, Saijaliisa - CANDELA, Hector - MICOL, Jose Luis. *Arabidopsis ANGULATA10* is required for thylakoid biogenesis and mesophyll development. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2014, vol. 65, no. 9, pp. 2391., WOS
- [1.1] HAMMANI, Kamel - BARKAN, Alice. An mTERF domain protein functions in group II intron splicing in maize chloroplasts. In NUCLEIC ACIDS RESEARCH. ISSN 0305-1048, 2014, vol. 42, no. 8, pp. 5033., WOS
- [1.1] HSU, Ya-Wen - WANG, Huei-Jing - HSIEH, Ming-Hsiun - HSIEH, Hsu-Liang - JAUH, Guang-Yuh. *Arabidopsis mTERF15* Is Required for Mitochondrial nad2 Intron 3 Splicing and Functional Complex I Activity. In PLOS ONE. ISSN 1932-6203, 2014, vol. 9, no. 11, pp., WOS
- [1.1] KIM, Minsoo - LEE, Ung - SMALL, Ian - DES FRANCS-SMALL, Catherine Colas - VIERLING, Elizabeth. Mutations in an *Arabidopsis* Mitochondrial Transcription Termination Factor-Related Protein Enhance Thermotolerance in the Absence of the Major Molecular Chaperone HSP101. In PLANT CELL. ISSN 1040-4651, 2012, vol. 24, no. 8, pp. 3349., WOS
- [1.1] LARKIN, Robert M. Influence of plastids on light signalling and

development. In PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES. ISSN 0962-8436, 2014, vol. 369, no. 1640, pp., WOS

[1.1] MAJERAN, Wojciech - FRISO, Giulia - ASAKURA, Yukari - QU, Xian - HUANG, Mingshu - PONNALA, Lalit - WATKINS, Kenneth P. - BARKAN, Alice - VAN WIJK, Klaas J. Nucleoid-Enriched Proteomes in Developing Plastids and Chloroplasts from Maize Leaves: A New Conceptual Framework for Nucleoid Functions. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2012, vol. 158, no. 1, pp. 156., WOS

[1.1] MA, Hong-Zhen - LIU, Guo-Qin - LI, Cheng-Wei - KANG, Guo-Zhang - GUO, Tian-Cai. Identification of the TaBTF3 gene in wheat (*Triticum aestivum L.*) and the effect of its silencing on wheat chloroplast, mitochondria and mesophyll cell development. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2012, vol. 426, no. 4, pp. 608., WOS

[1.1] OH, Sookkyung - MONTGOMERY, Beronda L. Phytochrome-dependent coordinate control of distinct aspects of nuclear and plastid gene expression during anterograde signaling and photomorphogenesis. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS

[1.1] OLDENBURG, Delene J. - KUMAR, Rachana A. - BENDICH, Arnold J. The amount and integrity of mtDNA in maize decline with development. In PLANTA. ISSN 0032-0935, 2013, vol. 237, no. 2, pp. 603., WOS

[1.1] PFALZ, Jeannette - PFANNSCHMIDT, Thomas. Essential nucleoid proteins in early chloroplast development. In TRENDS IN PLANT SCIENCE. ISSN 1360-1385, 2013, vol. 18, no. 4, pp. 186., WOS

[1.1] ZHANG, Qunyu - XUE, Dexing - LI, Xiaoyu - LONG, Yunming - ZENG, Xianjie - LIU, Yaoguang. Characterization and Molecular Mapping of a New Virescent Mutant in Rice. In JOURNAL OF GENETICS AND GENOMICS. ISSN 1673-8527, 2014, vol. 41, no. 6, pp. 353., WOS

[1.1] ZHAO, Yanxin - CAI, Manjun - ZHANG, Xiaobo - LI, Yurong - ZHANG, Jianhua - ZHAO, Hailiang - KONG, Fei - ZHENG, Yonglian - QIU, Fazhan. Genome-Wide Identification, Evolution and Expression Analysis of mTERF Gene Family in Maize. In PLOS ONE. ISSN 1932-6203, 2014, vol. 9, no. 4, pp., WOS

[1.2] HAMMANI, Kamel - BONNARD, Géraldine - BOUCHOUCHA, Ayoub - GOBERT, Anthony - PINKER, Franziska - SALINAS, Thalia - GIEGÉ, Philippe. Helical repeats modular proteins are major players for organelle gene expression. In Biochimie. ISSN 03009084, 2014-01-01, 100, 1, pp. 141-150., SCOPUS

[1.2] HSU, Ya Wen - HSU, Ya Wen - WANG, Huei Jing - HSIEH, Ming Hsiun - HSIEH, Hsu Liang - JAUH, Guang Yuh - JAUH, Guang Yuh. Arabidopsis mTERF15 is required for mitochondrial nad2 intron 3 splicing and functional complex I activity. In PLoS ONE, 2014-11-17, 9, 11, pp., SCOPUS

[1.2] LARKIN, Robert M. - LARKIN, Robert M. Influence of plastids on light signalling and development. In Philosophical Transactions of the Royal Society B: Biological Sciences. ISSN 09628436, 2014-04-19, 369, 1640, pp., SCOPUS

[1.2] OH, Sookkyung - MONTGOMERY, Beronda L. - MONTGOMERY, Beronda L. Phytochrome-dependent coordinate control of distinct aspects of

nuclear and plastid gene expression during anterograde signaling and photomorphogenesis. In *Frontiers in Plant Science*, 2014-04-30, 5, aPR, pp., SCOPUS

ADCA130 REICHELT, S. - KNIGHT, A. E. - HODGE, T.P. - BALUŠKA, František - ŠAMAJ, Jozef - VOLKMANN, Dieter - KENDRICK-JONES, J. Characterization of the unconventional myosin VIII in plant cells and its localization at the post-cytokinetic cell wall. In *Plant Journal*, 1999, vol. 19, no. 5, p. 555-567. ISSN 0960-7412.

Ohlasy:

- [1.1] AMARI, Khalid - LERICH, Alexander - SCHMITT-KEICHINGER, Corinne - DOLJA, Valerian V. - RITZENTHALER, Christophe. Tubule-Guided Cell-to-Cell Movement of a Plant Virus Requires Class XI Myosin Motors. In *PLOS PATHOGENS*, 2011, vol.7, no.10., WOS
- [1.1] AMARI, K. - DI DONATO, M. - DOLJA, V.V. - HEINLEIN, M. Myosins VIII and XI Play Distinct Roles in Reproduction and Transport of Tobacco Mosaic Virus. In *Plos Pathogens*, 2014, vol. 10, no. 10. ISSN 1553-7366., WOS
- [1.1] AVASTHI, P. - ONISHI, M. - KARPIAK, J. - YAMAMOTO, R. - MACKINDER, L. - JONIKAS, M.C. - SALE, W.S. - SHOICHT, B. - PRINGLE, J.R. - MARSHALL, W.F. Actin Is Required for IFT Regulation in *Chlamydomonas reinhardtii*. In *Current Biology*, 2014, vol. 24, no. 17, p. 2025-2032. ISSN 0960-9822., WOS
- [1.1] BURCH-SMITH, Tessa M. - ZAMBRYSKI, Patricia C. - MERCHANT, SS. Plasmodesmata Paradigm Shift: Regulation from Without Versus Within. In *Annual Review of Plant Biology*, vol. 63, 2012, p. 239. ISSN 1543-5008., WOS
- [1.1] CAO, Ping - SUN, Jing - ZHAO, Peng - LIU, Heng - ZHENG, Guochang. A new putative plasmodesmata-associated protein, At1g19190, in *Arabidopsis*. In *AFRICAN JOURNAL OF BIOTECHNOLOGY*, 2011, vol.10, no.76, 17409-17423., WOS
- [1.1] DAY, A. - FENART, S. - NEUTELINGS, G. - HAWKINS, S. - ROLANDO, C. - TOKARSKI, C. Identification of cell wall proteins in the flax (*Linum usitatissimum*) stem. In *Proteomics*, 2013, vol. 13, no. 5, p. 812-825. ISSN 1615-9853., WOS
- [1.1] FAULKNER, Christine - MAULE, Andy. Opportunities and successes in the search for plasmodesmal proteins. In *PROTOPLASMA*, 2011, vol.248, no.1, 27-38., WOS
- [1.1] FERNANDEZ-CALVINO, Lourdes - FAULKNER, Christine - WALSHAW, John - SAALBACH, Gerhard - BAYER, Emmanuelle - BENITEZ-ALFONSO, Yoselin - MAULE, Andrew. *Arabidopsis* Plasmodesmal Proteome. In *PLOS ONE*, 2011, vol.6, no.4., WOS
- [1.1] GUI, J.S. - LIU, C. - SHEN, J.H. - LI, L.G. Grain setting defect1, Encoding a Remorin Protein, Affects the Grain Setting in Rice through Regulating Plasmodesmatal Conductance. In *Plant Physiology*, 2014, vol. 166, no. 3, p. 1463-+. ISSN 0032-0889., WOS
- [1.1] HARAGUCHI, T. - TOMINAGA, M. - MATSUMOTO, R. - SATO, K. - NAKANO, A. - YAMAMOTO, K. - ITO, K. Molecular Characterization and Subcellular Localization of *Arabidopsis* Class VIII Myosin, ATM1. In *Journal of Biological Chemistry*, 2014, vol. 289, no. 18, p. 12343-12355. ISSN 0021-9258.,

WOS

- [1.1] HENN, A. - SADOT, E. The unique enzymatic and mechanistic properties of plant myosins. In *Current Opinion in Plant Biology*, 2014, vol. 22, p. 65-70. ISSN 1369-5266., WOS
- [1.1] LLOYD, Clive. Plant Actin: Trying to Connect You. In *CURRENT BIOLOGY*, 2012, vol.22, no.17, r687., WOS
- [1.1] MADISON, S.L. - NEBENFUHR, A. Understanding myosin functions in plants: are we there yet?. In *Current Opinion in Plant Biology*, 2013, vol. 16, no. 6, p. 710-717. ISSN 1369-5266., WOS
- [1.1] NAULIN, P.A. - ALVEAL, N.A. - BARRERA, N.P. Toward atomic force microscopy and mass spectrometry to visualize and identify lipid rafts in plasmodesmata. In *Frontiers in Plant Science*, 2014, vol. 5. ISSN 1664-462X., WOS
- [1.1] NIEHL, Annette - HEINLEIN, Manfred. Cellular pathways for viral transport through plasmodesmata. In *PROTOPLASMA*, 2011, vol.248, no.1, 75-99., WOS
- [1.1] OJANGU, Eve-Ly - TANNER, Krista - PATA, Pille - JAERVE, Kristel - HOLWEG, Carola L. - TRUVE, Erkki - PAVES, Heiti. Myosins XI-K, XI-1, and XI-2 are required for development of pavement cells, trichomes, and stigmatic papillae in *Arabidopsis*. In *BMC PLANT BIOLOGY*, 2012, vol.12, no., WOS
- [1.1] PARK, So-Young - BAE, Eun-Kyung - MOON, Heung-Kyu - LEE, Hyoshin - KIM, Yong-Wook. Physiological Changes and Gene Expression Dynamic during Somatic Embryogenesis of *Kalopanax septemlobus*. In *HORTICULTURE ENVIRONMENT AND BIOTECHNOLOGY*, 2011, vol.52, no.1, 74-82., WOS
- [1.1] PENA, Eduardo - NIEHL, Annette - HEINLEIN, Manfred - KRAGLER, F - HULSKAMP, M. Viral Studies Point the Way: Mechanisms of Intercellular Transport. In *SHORT AND LONG DISTANCE SIGNALING*, 2012, vol.3, no., 1., WOS
- [1.1] RADFORD, Janine E. - WHITE, Rosemary G. Inhibitors of myosin, but not actin, alter transport through *Tradescantia* plasmodesmata. In *PROTOPLASMA*, 2011, vol.248, no.1, 205-216., WOS
- [1.1] SAGER, R. - LEE, J.Y. Plasmodesmata in integrated cell signalling: insights from development and environmental signals and stresses. In *Journal of Experimental Botany*, 2014, vol. 65, no. 22, p. 6337-6358. ISSN 0022-0957., WOS
- [1.1] SALMON, M.S. - BAYER, E.M.F. Dissecting plasmodesmata molecular composition by mass spectrometry-based proteomics. In *Frontiers in Plant Science*, 2013, vol. 3. ISSN 1664-462X., WOS
- [1.1] SATTARZADEH, A. - SCHMELZER, E. - HANSON, M.R. *Arabidopsis* myosin XI sub-domains homologous to the yeast nnyo2p organelle inheritance sub-domain target subcellular structures in plant cells. In *Frontiers in Plant Science*, 2013, vol. 4. ISSN 1664-462X., WOS
- [1.1] TILSNER, Jens - AMARI, Khalid - TORRANCE, Lesley. Plasmodesmata viewed as specialised membrane adhesion sites. In *PROTOPLASMA*, 2011, vol.248, no.1, 39-60., WOS
- [1.1] VIDALI, Luis - BEZANILLA, Magdalena. *Physcomitrella patens*: a model for tip cell growth and differentiation. In *Current Opinion in Plant Biology*, 2012, vol. 15, no. 6, pp. 625. ISSN 1369-5266., WOS

- [1.1] VILDANOVA, M.S. - WANG, W. - SMIRNOVA, E.A. Specific organization of Golgi apparatus in plant cells. In Biochemistry-Moscow, 2014, vol. 79, no. 9, p. 894-906. ISSN 0006-2979., WOS
- [1.1] WANG, Guifeng - WANG, Fang - WANG, Gang - WANG, Fei - ZHANG, Xiaowei - ZHONG, Mingyu - ZHANG, Jin - LIN, Dianbin - TANG, Yuanping - XU, Zhengkai - SONG, Rentao. Opaque1 Encodes a Myosin XI Motor Protein That Is Required for Endoplasmic Reticulum Motility and Protein Body Formation in Maize Endosperm. In PLANT CELL, 2012, vol.24, no.8, 3447., WOS
- [1.1] WANG, G.F. - ZHONG, M.Y. - WANG, J.J. - ZHANG, J.S. - TANG, Y.P. - WANG, G. - SONG, R.T. Genome-wide identification, splicing, and expression analysis of the myosin gene family in maize (*Zea mays*). In Journal of Experimental Botany, 2014, vol. 65, no. 4, p. 923-938. ISSN 0022-0957., WOS
- [1.1] WHITE, Rosemary G. - BARTON, Deborah A. The cytoskeleton in plasmodesmata: a role in intercellular transport? In JOURNAL OF EXPERIMENTAL BOTANY, 2011, vol.62, no.15, 5249-5266., WOS
- [1.1] XU, Min - CHO, Euna - BURCH-SMITH, Tessa M. - ZAMBRYSKI, Patricia C. Plasmodesmata formation and cell-to-cell transport are reduced in decreased size exclusion limit 1 during embryogenesis in *Arabidopsis*. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 2012, vol.109, no.13, 5098., WOS
- [1.1] YOKOTA, Etsuo - UEDA, Haruko - HASHIMOTO, Kohsuke - ORII, Hidefumi - SHIMADA, Tomoo - HARA-NISHIMURA, Ikuko - SHIMMEN, Teruo. Myosin XI-Dependent Formation of Tubular Structures from Endoplasmic Reticulum Isolated from Tobacco Cultured BY-2 Cells. In PLANT PHYSIOLOGY, 2011, vol.156, no.1, 129-143., WOS
- [1.1] YOUELL, J. - FIRMAN, K. Molecular Motors in Bionanotechnology. In Molecular Motors in Bionanotechnology, 2013, p. 1-198., WOS

ADCA131 RUYTER-SPIRA, Carolien - KOHLEN, Wouter - CHARNIKHOVA, Tatsiana - VAN ZEIJL, Arjan - VAN BEZOUWEN, Laura - DE RUIJTER, Norbert - CARDOSO, Catarina - LOPEZ-RAEZ, Juan Antonio - MATÚŠOVÁ, Radoslava - BOURS, Ralph - VERSTAPPEN, Francel - BOUWMEESTER, Harro. Physiological effects of the synthetic strigolactone analog GR24 on root system architecture in *Arabidopsis* : another Belowground Role for Strigolactones? In *Plant Physiology*, 2011, vol. 155, no. 2, p. 721-734. (6.451 - IF2010). (2011 - Current Contents). ISSN 0032-0889.

Ohlasy:

- [1.1] AGUSTI, Javier - GREB, Thomas. Going with the wind Adaptive dynamics of plant secondary meristems. In MECHANISMS OF DEVELOPMENT. ISSN 0925-4773, 2013, vol. 130, no. 1, pp. 34., WOS
- [1.1] AGUSTI, Javier - HEROLD, Silvia - SCHWARZ, Martina - SANCHEZ, Pablo - LJUNG, Karin - DUN, Elizabeth A. - BREWER, Philip B. - BEVERIDGE, Christine A. - SIEBERER, Tobias - SEHR, Eva M. - GREB, Thomas. Strigolactone signaling is required for auxin-dependent stimulation of secondary growth in plants. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2011, vol. 108, no. 50, pp. 20242., WOS
- [1.1] ARITE, Tomotsugu - KAMEOKA, Hiromu - KYOZUKA, Junko. Strigolactone Positively Controls Crown Root Elongation in Rice. In JOURNAL

OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2012, vol. 31, no. 2, pp. 165., WOS

- [1.1] BALZERGUE, Coline - CHABAUD, Mireille - BARKER, David G. - BECARD, Guillaume - ROCHANGE, Soizic F. High phosphate reduces host ability to develop arbuscular mycorrhizal symbiosis without affecting root calcium spiking responses to the fungus. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] BARTOLI, Carlos G. - CASALONGUE, Claudia A. - SIMONTACCHI, Marcela - MARQUEZ-GARCIA, Belen - FOYER, Christine H. Interactions between hormone and redox signalling pathways in the control of growth and cross tolerance to stress. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2013, vol. 94, no., pp. 73., WOS
- [1.1] BECK, Gilles - COMAN, Diana - HERREN, Edgar - AGUILA RUIZ-SOLA, M. - RODRIGUEZ-CONCEPCION, Manuel - GRUISSEM, Wilhelm - VRANOVA, Eva. Characterization of the GGPP synthase gene family in *Arabidopsis thaliana*. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2013, vol. 82, no. 4-5, pp. 393., WOS
- [1.1] BENNETT, Tom - LEYSER, Ottoline. Strigolactone signalling: standing on the shoulders of DWARFs. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2014, vol. 22, no., pp. 7., WOS
- [1.1] BOYER, Francois-Didier - GERMAIN, Alexandre de Saint - PILLOT, Jean-Paul - POUVREAU, Jean-Bernard - CHEN, Victor Xiao - RAMOS, Suzanne - STEVENIN, Arnaud - SIMIER, Philippe - DELAVault, Philippe - BEAU, Jean-Marie - RAMEAU, Catherine. Structure-Activity Relationship Studies of Strigolactone-Related Molecules for Branching Inhibition in Garden Pea: Molecule Design for Shoot Branching. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2012, vol. 159, no. 4, pp. 1524., WOS
- [1.1] BOYER, Francois-Didier - DE SAINT GERMAIN, Alexandre - POUVREAU, Jean-Bernard - CLAVE, Guillaume - PILLOT, Jean-Paul - ROUX, Amelie - RASMUSSEN, Amanda - DEPUYDT, Stephen - LAURESSERGUES, Dominique - FREY, Nicolas Frei Dit - HEUGEBAERT, Thomas S. A. - STEVENS, Christian V. - GEELEN, Danny - GOORMACHTING, Sofie - RAMEAU, Catherine. New Strigolactone Analogs as Plant Hormones with Low Activities in the Rhizosphere. In MOLECULAR PLANT. ISSN 1674-2052, 2014, vol. 7, no. 4, pp. 675., WOS
- [1.1] BRAUN, Nils - DE SAINT GERMAIN, Alexandre - PILLOT, Jean-Paul - BOUTET-MERCEY, Stephanie - DALMAIS, Marion - ANTONIADI, Ioanna - LI, Xin - MAIA-GRONDARD, Alessandra - LE SIGNOR, Christine - BOUTEILLER, Nathalie - LUO, Da - BENDAHMANE, Abdelhafid - TURNBULL, Colin - RAMEAU, Catherine. The Pea TCP Transcription Factor PsBRC1 Acts Downstream of Strigolactones to Control Shoot Branching. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2012, vol. 158, no. 1, pp. 225., WOS
- [1.1] BREWER, Philip B. - KOLTAI, Hinanit - BEVERIDGE, Christine A. Diverse Roles of Strigolactones in Plant Development. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 18., WOS
- [1.1] BRUNO, Mark - HOFMANN, Manuel - VERMATHEN, Martina - ALDER, Adrian - BEYER, Peter - AL-BABILI, Salim. On the substrate- and stereospecificity of the plant carotenoid cleavage dioxygenase 7. In FEBS

- LETTERS. ISSN 0014-5793, 2014, vol. 588, no. 9, pp. 1802., WOS
- [1.1] COHEN, Maja - PRANDI, Cristina - OCCHIATO, Ernesto G. - TABASSO, Silvia - WININGER, Smadar - RESNICK, Nathalie - STEINBERGER, Yosef - KOLTAI, Hinanit - KAPULNIK, Yoram. Structure-Function Relations of Strigolactone Analogs: Activity as Plant Hormones and Plant Interactions. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 141., WOS
- [1.1] CONSIDINE, Michael J. - FOYER, Christine H. Redox Regulation of Plant Development. In ANTIOXIDANTS & REDOX SIGNALING. ISSN 1523-0864, 2014, vol. 21, no. 9, pp. 1305., WOS
- [1.1] CZARNECKI, Olaf - YANG, Jun - WESTON, David J. - TUSKAN, Gerald A. - CHEN, Jin-Gui. A Dual Role of Strigolactones in Phosphate Acquisition and Utilization in Plants. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2013, vol. 14, no. 4, pp. 7681., WOS
- [1.1] DE SAINT GERMAIN, Alexandre - LIGEROT, Yasmine - DUN, Elizabeth A. - PILLOT, Jean-Paul - ROSS, John J. - BEVERIDGE, Christine A. - RAMEAU, Catherine. Strigolactones Stimulate Internode Elongation Independently of Gibberellins. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2013, vol. 163, no. 2, pp. 1012., WOS
- [1.1] DELAUX, Pierre-Marc - XIE, Xiaonan - TIMME, Ruth E. - PUECH-PAGES, Virginie - DUNAND, Christophe - LECOMPTE, Emilie - DELWICHE, Charles F. - YONEYAMA, Koichi - BECARD, Guillaume - SEJALON-DELMAS, Nathalie. Origin of strigolactones in the green lineage. In NEW PHYTOLOGIST. ISSN 0028-646X, 2012, vol. 195, no. 4, pp. 857., WOS
- [1.1] Dor, Evgenia - Joel, Daniel M. - Kapulnik, Yoram - Koltai, Hinanit - Hershenhorn, Joseph. The synthetic strigolactone GR24 influences the growth pattern of phytopathogenic fungi. In PLANTA, 2011, vol.234, no.2, p.419-127., WOS
- [1.1] DUN, Elizabeth A. - DE SAINT GERMAIN, Alexandre - RAMEAU, Catherine - BEVERIDGE, Christine A. Dynamics of Strigolactone Function and Shoot Branching Responses in *Pisum sativum*. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 128., WOS
- [1.1] FLEMATTI, Gavin R. - WATERS, Mark T. - SCAFFIDI, Adrian - MERRITT, David J. - GHISALBERTI, Emilio L. - DIXON, Kingsley W. - SMITH, Steven M. Karrikin and Cyanohydrin Smoke Signals Provide Clues to New Endogenous Plant Signaling Compounds. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 29., WOS
- [1.1] FOO, Eloise - REID, James B. Strigolactones: New Physiological Roles for an Ancient Signal. In JOURNAL OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2013, vol. 32, no. 2, pp. 429., WOS
- [1.1] FOO, Eloise - YONEYAMA, Kaori - HUGILL, Cassandra J. - QUITTENDEN, Laura J. - REID, James B. Strigolactones and the Regulation of Pea Symbioses in Response to Nitrate and Phosphate Deficiency. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 76., WOS
- [1.1] FOO, E. - FERGUSON, B. J. - REID, J. B. The potential roles of strigolactones and brassinosteroids in the autoregulation of nodulation pathway. In ANNALS OF BOTANY. ISSN 0305-7364, 2014, vol. 113, no. 6, pp. 1037., WOS
- [1.1] FUKUI, Kosuke - ITO, Shinsaku - ASAMI, Tadao. Selective Mimics of

Strigolactone Actions and Their Potential Use for Controlling Damage Caused by Root Parasitic Weeds. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 88., WOS

[1.1] FUSCONI, Anna. Regulation of root morphogenesis in arbuscular mycorrhizae: what role do fungal exudates, phosphate, sugars and hormones play in lateral root formation? In ANNALS OF BOTANY. ISSN 0305-7364, 2014, vol. 113, no. 1, pp. 19., WOS

[1.1] GIBBS, Daniel J. - VOSS, Ute - HARDING, Susan A. - FANNON, Jessica - MOODY, Laura A. - YAMADA, Erika - SWARUP, Kamal - NIBAU, Candida - BASSEL, George W. - CHOUDHARY, Anushree - LAVENUS, Julien - BRADSHAW, Susan J. - STEKEL, Dov J. - BENNETT, Malcolm J. - COATES, Juliet C. AtMYB93 is a novel negative regulator of lateral root development in Arabidopsis. In NEW PHYTOLOGIST. ISSN 0028-646X, 2014, vol. 203, no. 4, pp. 1194., WOS

[1.1] GOLENBERG, Edward M. - WEST, Nicholas W. HORMONAL INTERACTIONS AND GENE REGULATION CAN LINK MONOECY AND ENVIRONMENTAL PLASTICITY TO THE EVOLUTION OF DIOECY IN PLANTS. In AMERICAN JOURNAL OF BOTANY. ISSN 0002-9122, 2013, vol. 100, no. 6, pp. 1022., WOS

[1.1] GRIFFITHS, Cara A. - GAFF, Donald F. - NEALE, Alan D. Drying without senescence in resurrection plants. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS

[1.1] GROBBELAAR, Maria C. - MAKUNGA, Nokwanda P. - STANDER, Marietjie A. - KOSSMANN, Jens - HILLS, Paul N. Effect of strigolactones and auxins on growth and metabolite content of *Sutherlandia frutescens* (L.) R. Br. microplants in vitro. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2014, vol. 117, no. 3, pp. 401., WOS

[1.1] GUAN, Jiahn Chou - KOCH, Karen E. - SUZUKI, Masaharu - WU, Shan - LATSHAW, Susan - PETRUFF, Tanya - GOULET, Charles - KLEE, Harry J. - MCCARTY, Donald R. Diverse Roles of Strigolactone Signaling in Maize Architecture and the Uncoupling of a Branching-Specific Subnetwork. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2012, vol. 160, no. 3, pp. 1303., WOS

[1.1] GUTJAHR, Caroline. Phytohormone signaling in arbuscular mycorrhiza development. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2014, vol. 20, no., pp. 26., WOS

[1.1] HABETS, Myckel E. J. - OFFRINGA, Remko. PIN-driven polar auxin transport in plant developmental plasticity: a key target for environmental and endogenous signals. In NEW PHYTOLOGIST. ISSN 0028-646X, 2014, vol. 203, no. 2, pp. 362., WOS

[1.1] HAICHAR, Feth el Zahar - SANTAELLA, Catherine - HEULIN, Thierry - ACHOUAK, Wafa. Root exudates mediated interactions belowground. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, 2014, vol. 77, no., pp. 69., WOS

[1.1] HAYWARD, Alice - VIGHNESH, Guru - DELAY, Christina - SAMIAN, Mohd Rafizan - MANOLI, Sahana - STILLER, Jiri - MCKENZIE, Megan - EDWARDS, David - BATLEY, Jacqueline. Second-generation sequencing for gene discovery in the Brassicaceae. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2012, vol. 10, no. 6, pp. 750., WOS

- [1.1] HA, Sukbong - LAM-SON TRAN. Understanding plant responses to phosphorus starvation for improvement of plant tolerance to phosphorus deficiency by biotechnological approaches. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2014, vol. 34, no. 1, pp. 16., WOS
- [1.1] HERRMANN, Laetitia - LESUEUR, Didier. Challenges of formulation and quality of biofertilizers for successful inoculation. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2013, vol. 97, no. 20, pp. 8859., WOS
- [1.1] HOCK, Bertold - MORTE, A - VARMA, A. Strigolactones Involvement in Root Development and Communications. In ROOT ENGINEERING: BASIC AND APPLIED CONCEPTS. ISSN 1613-3382, 2014, vol. 40, no., pp. 203., WOS
- [1.1] HOFFMANN, Beate - PROUST, Helene - BELCRAM, Katia - LABRUNE, Cecile - BOYER, Francois-Didier - RAMEAU, Catherine - BONHOMME, Sandrine. Strigolactones Inhibit Caulonema Elongation and Cell Division in the Moss *Physcomitrella patens*. In PLOS ONE. ISSN 1932-6203, 2014, vol. 9, no. 6, pp., WOS
- [1.1] CHALLIS, Richard J. - HEPWORTH, Jo - MOUCHEL, Celine - WAITES, Richard - LEYSER, Ottoline. A Role for MORE AXILLARY GROWTH1 (MAX1) in Evolutionary Diversity in Strigolactone Signaling Upstream of MAX2. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2013, vol. 161, no. 4, pp. 1885., WOS
- [1.1] CHEN, Victor X. - BOYER, Francois-Didier - RAMEAU, Catherine - PILLOT, Jean-Paul - VORS, Jean-Pierre - BEAU, Jean-Marie. New Synthesis of A-Ring Aromatic Strigolactone Analogues and Their Evaluation as Plant Hormones in Pea (*Pisum sativum*). In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2013, vol. 19, no. 15, pp. 4849., WOS
- [1.1] ISLAM, Sharmin - GRIFFITHS, Cara A. - BLOMSTEDT, Cecilia K. - TUAN-NGOC LE - GAFF, Donald F. - HAMILL, John D. - NEALE, Alan D. Increased Biomass, Seed Yield and Stress Tolerance Is Conferred in *Arabidopsis* by a Novel Enzyme from the Resurrection Grass *Sporobolus stapfianus* That Glycosylates the Strigolactone Analogue GR24. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 11, pp., WOS
- [1.1] Ito, Shinsaku - Umebara, Mikihisa - Hanada, Atsushi - Kitahata, Nobutaka - Hayase, Hiroki - Yamaguchi, Shinjiro - Asami, Tadao. Effects of Triazole Derivatives on Strigolactone Levels and Growth Retardation in Rice. In PLOS ONE, 2011, vol.6, no.7, e 21723., WOS
- [1.1] JUNG, Janelle K. H. - MCCOUCH, Susan. Getting to the roots of it: genetic and hormonal control of root architecture. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] Kapulnik, Yoram - Resnick, Natalie - Mayzlish-Gati, Einav - Kaplan, Yulia - Wninger, Smadar - Hershenhorn, Joseph - Kolai, Hinanit. Strigolactones interact with ethylene and auxin in regulating root-hair elongation in *Arabidopsis*. In JOURNAL OF EXPERIMENTAL BOTANY, 2011, vol.62, no.8, p.2915-2924., WOS
- [1.1] KAPULNIK, Yoram - KOLAI, Hinanit. Strigolactone Involvement in Root Development, Response to Abiotic Stress, and Interactions with the Biotic Soil Environment. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 166, no. 2, pp. 560., WOS
- [1.1] KHETKAM, Pichit - XIE, Xiaonan - KISUGI, Takaya - KIM, Hyun Il -

- YONEYAMA, Kaori - UCHIDA, Kenichi - YOKOTA, Takao - NOMURA, Takahito - YONEYAMA, Koichi. 7 alpha- and 7 beta-Hydroxyorobanchyl acetate as germination stimulants for root parasitic weeds produced by cucumber. In JOURNAL OF PESTICIDE SCIENCE. ISSN 1348-589X, 2014, vol. 39, no. 3-4, pp. 121., WOS
- [1.1] KIM, Hyun Il - KISUGI, Takaya - KHETKAM, Pichit - XIE, Xiaonan - YONEYAMA, Kaori - UCHIDA, Kenichi - YOKOTA, Takao - NOMURA, Takahito - MCERLEAN, Christopher S. P. - YONEYAMA, Koichi. Avenaol, a germination stimulant for root parasitic plants from *Avena strigosa*. In PHYTOCHEMISTRY. ISSN 0031-9422, 2014, vol. 103, no., pp. 85., WOS
- [1.1] KISUGI, Takaya - XIE, Xiaonan - KIM, Hyun Il - YONEYAMA, Kaori - SADO, Aika - AKIYAMA, Kohki - HAYASHI, Hideo - UCHIDA, Kenichi - YOKOTA, Takao - NOMURA, Takahito - YONEYAMA, Koichi. Strigone, isolation and identification as a natural strigolactone from *Houttuynia cordata*. In PHYTOCHEMISTRY. ISSN 0031-9422, 2013, vol. 87, no., pp. 60., WOS
- [1.1] KOHLEN, Wouter - RUYTER-SPIRA, Carolien - BOUWMEESTER, Harro J. Strigolactones: a new musician in the orchestra of plant hormones. In BOTANY-BOTANIQUE. ISSN 1916-2790, 2011, vol. 89, no. 12, pp. 827., WOS
- [1.1] KOLTAI, Hinanit - KAPULNIK, Yoram. Unveiling Signaling Events in Root Responses to Strigolactone. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 3, pp. 589., WOS
- [1.1] Koltai, Hinanit. Strigolactones are regulators of root development. In NEW PHYTOLOGIST, 2011, vol.190, no.3, p.545-549., WOS
- [1.1] KOLTAI, Hinanit. Implications of non-specific strigolactone signaling in the rhizosphere. In PLANT SCIENCE. ISSN 0168-9452, 2014, vol. 225, no., pp. 9., WOS
- [1.1] KOLTAI, Hinanit. Receptors, repressors, PINs: a playground for strigolactone signaling. In TRENDS IN PLANT SCIENCE. ISSN 1360-1385, 2014, vol. 19, no. 11, pp. 727., WOS
- [1.1] KOLTAI, Hinanit. Strigolactones activate different hormonal pathways for regulation of root development in response to phosphate growth conditions. In ANNALS OF BOTANY. ISSN 0305-7364, 2013, vol. 112, no. 2, pp. 409., WOS
- [1.1] KOREN, Dikla - RESNICK, Nathalie - GATI, Einav Mayzlish - BELAUSOV, Eduard - WEININGER, Smadar - KAPULNIK, Yoram - KOLTAI, Hinanit. Strigolactone signaling in the endodermis is sufficient to restore root responses and involves SHORT HYPOCOTYL 2 (SHY2) activity. In NEW PHYTOLOGIST. ISSN 0028-646X, 2013, vol. 198, no. 3, pp. 866., WOS
- [1.1] LE FLOCH, Camille - LAYMAND, Kevin - LE GALL, Erwan - LEONEL, Eric. A Cobalt-Catalyzed Domino Route to the ABC Tricyclic Core of Strigolactones and Analogues. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2012, vol. 354, no. 5, pp. 823., WOS
- [1.1] LE FLOCH, Camille - SENGMANI, Stephane - LE GALL, Erwan - LEONEL, Eric. Domino synthesis of the ABC tricyclic core of strigolactones and analogues. In COMPTES RENDUS CHIMIE. ISSN 1631-0748, 2013, vol. 16, no. 4, pp. 331., WOS
- [1.1] LIU, Junwei - LOVISOLI, Claudio - SCHUBERT, Andrea - CARDINALE, Francesca. Signaling role of Strigolactones at the interface between plants, (micro)organisms, and a changing environment. In JOURNAL

OF PLANT INTERACTIONS. ISSN 1742-9145, 2013, vol. 8, no. 1, pp. 17., WOS

[1.1] LI, Xiaoming - SUN, Shiyong - LI, Chengxiang - QIAO, Shenglong - WANG, Tao - LENG, Linna - SHEN, Hongyun - WANG, Xuelu. The Strigolactone-Related Mutants have Enhanced Lamina Joint Inclination Phenotype at the Seedling Stage. In JOURNAL OF GENETICS AND GENOMICS. ISSN 1673-8527, 2014, vol. 41, no. 11, pp. 605., WOS

[1.1] LI, Zhou - CZARNECKI, Olaf - CHOURAY, Karuna - YANG, Jun - TUSKAN, Gerald A. - HURST, Gregory B. - PAN, Chongle - CHEN, Jin-Gui. Strigolactone-Regulated Proteins Revealed by iTRAQ-Based Quantitative Proteomics in Arabidopsis. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2014, vol. 13, no. 3, pp. 1359., WOS

[1.1] MARQUEZ-GARCIA, Belen - NJO, Maria - BEECKMAN, Tom - GOORMAHTIG, Sofie - FOYER, Christine H. A new role for glutathione in the regulation of root architecture linked to strigolactones. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2014, vol. 37, no. 2, pp. 488., WOS

[1.1] MARZEC, Marek - MUSZYNSKA, Aleksandra - GRUSZKA, Damian. The Role of Strigolactones in Nutrient-Stress Responses in Plants. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2013, vol. 14, no. 5, pp. 9286., WOS

[1.1] MAYZLISH-GATI, Einav - DE-CUYPER, Carolien - GOORMAHTIG, Sofie - BEECKMAN, Tom - VUYLSTEKE, Marnik - BREWER, Philip B. - BEVERIDGE, Christine A. - YERMIYAHU, Uri - KAPLAN, Yulia - ENZER, Yael - WININGER, Smadar - RESNICK, Natalie - COHEN, Maja - KAPULNIK, Yoram - KOLTAI, Hinanit. Strigolactones Are Involved in Root Response to Low Phosphate Conditions in Arabidopsis. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2012, vol. 160, no. 3, pp. 1329., WOS

[1.1] NIU, Yao Fang - CHAI, Ru Shan - JIN, Gu Lei - WANG, Huan - TANG, Cai Xian - ZHANG, Yong Song. Responses of root architecture development to low phosphorus availability: a review. In ANNALS OF BOTANY. ISSN 0305-7364, 2013, vol. 112, no. 2, pp. 391., WOS

[1.1] PACURAR, Daniel Ioan - PERRONE, Irene - BELLINI, Catherine. Auxin is a central player in the hormone cross-talks that control adventitious rooting. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2014, vol. 151, no. 1, pp. 83., WOS

[1.1] PANDYA-KUMAR, Nirali - SHEMA, Rony - KUMAR, Manoj - MAYZLISH-GATI, Einav - LEVY, Danny - ZEMACH, Hanita - BELAUSOV, Eduard - WININGER, Smadar - ABU-ABIED, Mohamad - KAPULNIK, Yoram - KOLTAI, Hinanit. Strigolactone analog GR24 triggers changes in PIN2 polarity, vesicle trafficking and actin filament architecture. In NEW PHYTOLOGIST. ISSN 0028-646X, 2014, vol. 202, no. 4, pp. 1184., WOS

[1.1] QUAIN, Marian D. - MAKGOPA, Matome E. - MARQUEZ-GARCIA, Belen - COMADIRA, Gloria - FERNANDEZ-GARCIA, Nieves - OLMOS, Enrique - SCHNAUBELT, Daniel - KUNERT, Karl J. - FOYER, Christine H. Ectopic phytocystatin expression leads to enhanced drought stress tolerance in soybean (*Glycine max*) and *Arabidopsis thaliana* through effects on strigolactone pathways and can also result in improved seed traits. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2014, vol. 12, no. 7, pp. 903., WOS

- [1.1] RASMUSSEN, Amanda - MASON, Michael Glenn - DE CUYPER, Carolien - BREWER, Philip B. - HEROLD, Silvia - AGUSTI, Javier - GEELEN, Danny - GREB, Thomas - GOORMACHTIG, Sofie - BEECKMAN, Tom - BEVERIDGE, Christine Anne. Strigolactones Suppress Adventitious Rooting in *Arabidopsis* and Pea. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2012, vol. 158, no. 4, pp. 1976., WOS
- [1.1] RASMUSSEN, Amanda - DEPUYDT, Stephen - GOORMACHTIG, Sofie - GEELEN, Danny. Strigolactones fine-tune the root system. In *PLANTA*. ISSN 0032-0935, 2013, vol. 238, no. 4, pp. 615., WOS
- [1.1] SAINI, Shivani - SHARMA, Isha - KAUR, Navdeep - PATI, Pratap Kumar. Auxin: a master regulator in plant root development. In *PLANT CELL REPORTS*. ISSN 0721-7714, 2013, vol. 32, no. 6, pp. 741., WOS
- [1.1] SCAFFIDI, Adrian - WATERS, Mark T. - GHISALBERTI, Emilio L. - DIXON, Kingsley W. - FLEMATTI, Gavin R. - SMITH, Steven M. Carlactone-independent seedling morphogenesis in *Arabidopsis*. In *PLANT JOURNAL*. ISSN 0960-7412, 2013, vol. 76, no. 1, pp. 1., WOS
- [1.1] SETO, Yoshiya - KAMEOKA, Hiromu - YAMAGUCHI, Shinjiro - KYOZUKA, Junko. Recent Advances in Strigolactone Research: Chemical and Biological Aspects. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2012, vol. 53, no. 11, pp. 1843., WOS
- [1.1] SHINOHARA, Naoki - TAYLOR, Catherine - LEYSER, Ottoline. Strigolactone Can Promote or Inhibit Shoot Branching by Triggering Rapid Depletion of the Auxin Efflux Protein PIN1 from the Plasma Membrane. In *PLOS BIOLOGY*. ISSN 1545-7885, 2013, vol. 11, no. 1, pp., WOS
- [1.1] SINGH, Sylvia - PARNISKE, Martin. Activation of calcium- and calmodulin-dependent protein kinase (CCaMK), the central regulator of plant root endosymbiosis. In *CURRENT OPINION IN PLANT BIOLOGY*. ISSN 1369-5266, 2012, vol. 15, no. 4, pp. 444., WOS
- [1.1] Smith, Sally E. - Jakobsen, Iver - Gronlund, Mette - Smith, F. Andrew. : Roles of Arbuscular Mycorrhizas in Plant Phosphorus Nutrition: Interactions between Pathways of Phosphorus Uptake in Arbuscular Mycorrhizal Roots Have Important Implications for Understanding and Manipulating Plant Phosphorus Acquisition. In *PLANT PHYSIOLOGY*, 2011, vol.156, no.3, p.1050-1057., WOS
- [1.1] STANGA, John P. - SMITH, Steven M. - BRIGGS, Winslow R. - NELSON, David C. SUPPRESSOR OF MORE AXILLARY GROWTH2 1 Controls Seed Germination and Seedling Development in *Arabidopsis*. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2013, vol. 163, no. 1, pp. 318., WOS
- [1.1] SUN, Huawei - TAO, Jinyuan - LIU, Shangjun - HUANG, Shuangjie - CHEN, Si - XIE, Xiaonan - YONEYAMA, Koichi - ZHANG, Yali - XU, Guohua. Strigolactones are involved in phosphate- and nitrate-deficiency-induced root development and auxin transport in rice. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2014, vol. 65, no. 22, pp. 6735., WOS
- [1.1] SU, Ying Hua - SU, Yu Xiao - LIU, Ying Gao - ZHANG, Xian Sheng. Abscisic acid is required for somatic embryo initiation through mediating spatial auxin response in *Arabidopsis*. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2013, vol. 69, no. 2, pp. 167., WOS
- [1.1] TAKATSUKA, Hirotomo - UMEDA, Masaaki. Hormonal control of cell division and elongation along differentiation trajectories in roots. In

JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2014, vol. 65, no. 10, pp. 2633., WOS

- [1.1] Umehara, Mikihisa. Strigolactone, a key regulator of nutrient allocation in plants. In PLANT BIOTECHNOLOGY, 2011, vol.28, no.5, p.429-437., WOS
- [1.1] VAN NORMAN, Jaimie M. - ZHANG, Jingyuan - CAZZONELLI, Christopher I. - POGSON, Barry J. - HARRISON, Peter J. - BUGG, Timothy D. H. - CHAN, Kai Xun - THOMPSON, Andrew J. - BENFEY, Philip N. Periodic root branching in *Arabidopsis* requires synthesis of an uncharacterized carotenoid derivative. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2014, vol. 111, no. 13, pp. E1300., WOS
- [1.1] VANSTRAELEN, Marleen - BENKOVA, Eva - SCHEKMAN, R. Hormonal Interactions in the Regulation of Plant Development. In ANNUAL REVIEW OF CELL AND DEVELOPMENTAL BIOLOGY, VOL 28. ISSN 1081-0706, 2012, vol. 28, no., pp. 463., WOS
- [1.1] VERSTRAETEN, Inge - SCHOTTE, Sebastien - GEELEN, Danny. Hypocotyl adventitious root organogenesis differs from lateral root development. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS
- [1.1] VILLEDIEU-PERCHERON, Emmanuelle - LACHIA, Mathilde - JUNG, Pierre M. J. - SCREPANTI, Claudio - FONNE-PFISTER, Raymonde - WENDEBORN, Sebastian - ZURWERRA, Didier - DE MESMAEKER, Alain. Chemicals Inducing Seed Germination and Early Seedling Development. In CHIMIA. ISSN 0009-4293, 2014, vol. 68, no. 9, pp. 654., WOS
- [1.1] Vranova, Eva - Hirsch-Hoffmann, Matthias - Gruissem, Wilhelm. AtIPD: A Curated Database of *Arabidopsis* Isoprenoid Pathway Models and Genes for Isoprenoid Network Analysis. In PLANT PHYSIOLOGY, 2011, vol.156, no.4, p.1655-1660., WOS
- [1.1] VURRO, Maurizio - YONEYAMA, Koichi. Strigolactonesintriguing biologically active compounds: perspectives for deciphering their biological role and for proposing practical application. In PEST MANAGEMENT SCIENCE. ISSN 1526-498X, 2012, vol. 68, no. 5, pp. 664., WOS
- [1.1] WALDIE, Tanya - MCCULLOCH, Hayley - LEYSER, Ottoline. Strigolactones and the control of plant development: lessons from shoot branching. In PLANT JOURNAL. ISSN 0960-7412, 2014, vol. 79, no. 4, pp. 607., WOS
- [1.1] WATERS, Mark T. - BREWER, Philip B. - BUSSELL, John D. - SMITH, Steven M. - BEVERIDGE, Christine A. The *Arabidopsis* Ortholog of Rice DWARF27 Acts Upstream of MAX1 in the Control of Plant Development by Strigolactones. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2012, vol. 159, no. 3, pp. 1073., WOS
- [1.1] WATERS, Mark T. - NELSON, David C. - SCAFFIDI, Adrian - FLEMATTI, Gavin R. - SUN, Yueming K. - DIXON, Kingsley W. - SMITH, Steven M. Specialisation within the DWARF14 protein family confers distinct responses to karrikins and strigolactones in *Arabidopsis*. In DEVELOPMENT. ISSN 0950-1991, 2012, vol. 139, no. 7, pp. 1285., WOS
- [1.1] WATERS, Mark T. - SMITH, Steven M. KAI2- and MAX2-Mediated Responses to Karrikins and Strigolactones Are Largely Independent of HY5 in *Arabidopsis* Seedlings. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol.

- 6, no. 1, pp. 63., WOS
- [1.1] WHITE, Philip J. - GEORGE, Timothy S. - GREGORY, Peter J. - BENGOUGH, A. Glyn - HALLETT, Paul D. - MCKENZIE, Blair M. Matching roots to their environment. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2013, vol. 112, no. 2, pp. 207., WOS
- [1.1] XIE, Xiaonan - YONEYAMA, Kaori - KISUGI, Takaya - UCHIDA, Kenichi - ITO, Seisuke - AKIYAMA, Kohki - HAYASHI, Hideo - YOKOTA, Takao - NOMURA, Takahito - YONEYAMA, Koichi. Confirming Stereochemical Structures of Strigolactones Produced by Rice and Tobacco. In *MOLECULAR PLANT*. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 153., WOS
- [1.1] Yoneyama, Kaori - Xie, Xiaonan - Kisugi, Takaya - Nomura, Takahito - Sekimoto, Hitoshi - Yokota, Takao - Yoneyama, Koichi. Characterization of strigolactones exuded by Asteraceae plants. In *PLANT GROWTH REGULATION*, 2011, vol.65, no.3, p.495-504., WOS
- [1.1] YONEYAMA, Kaori - XIE, Xiaonan - KIM, Hyun Il - KISUGI, Takaya - NOMURA, Takahito - SEKIMOTO, Hitoshi - YOKOTA, Takao - YONEYAMA, Koichi. How do nitrogen and phosphorus deficiencies affect strigolactone production and exudation? In *PLANTA*. ISSN 0032-0935, 2012, vol. 235, no. 6, pp. 1197., WOS
- [1.1] YONEYAMA, Kaori - XIE, Xiaonan - KISUGI, Takaya - NOMURA, Takahito - YONEYAMA, Koichi. Nitrogen and phosphorus fertilization negatively affects strigolactone production and exudation in sorghum. In *PLANTA*. ISSN 0032-0935, 2013, vol. 238, no. 5, pp. 885., WOS
- [1.1] YOUNG, Naomi F. - FERGUSON, Brett J. - ANTONIADI, Ioanna - BENNETT, Mark H. - BEVERIDGE, Christine A. - TURNBULL, Colin G. N. Conditional Auxin Response and Differential Cytokinin Profiles in Shoot Branching Mutants. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2014, vol. 165, no. 4, pp. 1723., WOS
- [1.1] ZHANG, Zhaoliang - LIAO, Hong - LUCAS, William J. Molecular mechanisms underlying phosphate sensing, signaling, and adaptation in plants. In *JOURNAL OF INTEGRATIVE PLANT BIOLOGY*. ISSN 1672-9072, 2014, vol. 56, no. 3, pp. 192., WOS
- [1.1] ZHU, Huifen - KRANZ, Robert G. A Nitrogen-Regulated Glutamine Amidotransferase (GAT1\_2.1) Represses Shoot Branching in Arabidopsis. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2012, vol. 160, no. 4, pp. 1770., WOS
- [1.2] ĆAVAR, Sanja - ĆAVAR, Sanja - ZWANENBURG, Binne - ZWANENBURG, Binne - TARKOWSKI, Petr. Strigolactones: occurrence, structure, and biological activity in the rhizosphere. In *Phytochemistry Reviews*. ISSN 15687767, 2014-06-25, 14, 4, pp. 691-711., SCOPUS
- [1.2] Formey, D - Jourda, C - Roux, C - Delaux, P - M. What the Genomics of Arbuscular Mycorrhizal Symbiosis Teaches Us about Root Development. In *Root Genomics and Soil Interactions*, 2012, pp. 171-188., SCOPUS
- [1.2] GIBBS, Daniel J. - VOß, Ute - HARDING, Susan A. - FANNON, Jessica - MOODY, Laura A. - YAMADA, Erika - SWARUP, Kamal - NIBAU, Candida - BASSEL, George W. - CHOUDHARY, Anushree - LAVENUS, Julien - BRADSHAW, Susan J. - STEKEL, Dov J. - BENNETT, Malcolm J. - COATES, Juliet C. AtMYB93 is a novel negative regulator of lateral root development in Arabidopsis. In *New Phytologist*. ISSN 0028646X, 2014-01-01, 203, 4, pp. 1194-1207., SCOPUS

- [1.2] ITO, Shinsaku - UMEHARA, Sikihisa - HANADA, Atsushi - YAMAGUCHI, Shinjiro - ASAMI, Tadao. Effects of strigolactone-biosynthesis inhibitor TIS108 on Arabidopsis. In *Plant Signaling and Behavior*. ISSN 15592316, 2013-05-01, 8, 5, pp. e24193.1-e24193.3., SCOPUS
- [1.2] KOLTAI, Hinanit - PRANDI, Cristina. Strigolactones: Biosynthesis, synthesis and functions in plant growth and stress responses. In *Phytohormones: A Window to Metabolism, Signaling and Biotechnological Applications*, 2014-07-01, pp. 265-288., SCOPUS
- [1.2] Koltai, H. Strigolactones' ability to regulate root development may be executed by induction of the ethylene pathway. In *Plant Signaling and Behavior*, 2011, vol.6, no.7, p. 86-87., SCOPUS
- [1.2] Smith, S - de Smet, I. Root system architecture: Insights from Arabidopsis and cereal crops. In *Philosophical Transactions of the Royal Society B: Biological Sciences*, 2012, 367 (1595), pp. 1441-1452., SCOPUS

ADCA132 SALAJ, Ján - RECKLINGHAUSEN, Iris R. von - HECHT, Valerie - VRIES, Sacco C. de - SCHEL, Jan H. N. - LAMMEREN, André A.M. van. AtSERK1 expression precedes and coincides with early somatic embryogenesis in *Arabidopsis thaliana*. In *Plant Physiology and Biochemistry*, 2008, vol.46, no.7, p.709-714. (1.669 - IF2007). (2008 - SCOPUS, BIOSIS, GEOBASE, MEDLINE, SCISEARCH).

Ohlasy:

- [1.1] DELPORTE, Fabienne - MUHOVSKI, Yordan - PRETOVA, Anna - WATILLON, Bernard. Analysis of expression profiles of selected genes associated with the regenerative property and the receptivity to gene transfer during somatic embryogenesis in *Triticum aestivum L.* In *MOLECULAR BIOLOGY REPORTS*. ISSN 0301-4851, 2013, vol. 40, no. 10, pp. 5883., WOS
- [1.1] HU, Lisong - YANG, Xiyan - YUAN, Daojun - ZENG, Fanchang - ZHANG, Xianlong. GhHmgB3 deficiency deregulates proliferation and differentiation of cells during somatic embryogenesis in cotton. In *PLANT BIOTECHNOLOGY JOURNAL*, 2011, vol.9, no.9, 1038., WOS
- [1.1] KIM, Min Hee - KIM, Yoon - KIM, Ju Won - LEE, Hyun-Suk - LEE, Woo Sung - KIM, Seong-Ki - WANG, Zhi-Yong - KIM, Soo-Hwan. Identification of *Arabidopsis BAK1-Associating Receptor-Like Kinase 1* (BARK1) and Characterization of its Gene Expression and Brassinosteroid-Regulated Root Phenotypes. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2013, vol. 54, no. 10, pp. 1620., WOS
- [1.1] SHI, Ya-li - GUO, San-dui - ZHANG, Rui - MENG, Zhi-gang - REN, Mao-zhi. The role of Somatic embryogenesis receptor-like kinase 1 in controlling pollen production of the *Gossypium* anther. In *MOLECULAR BIOLOGY REPORTS*. ISSN 0301-4851, 2014, vol. 41, no. 1, pp. 411., WOS
- [1.1] SMERTENKO, Andrei - BOZHKO, Peter V. Somatic embryogenesis: life and death processes during apicalbasal patterning. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2014, vol. 65, no. 5, pp. 1343., WOS
- [1.1] SMERTENKO, Andrei - BOZHKO, Peter. The Life and Death Signalling Underlying Cell Fate Determination During Somatic Embryogenesis. In *APPLIED PLANT CELL BIOLOGY: CELLULAR TOOLS AND APPROACHES FOR PLANT BIOTECHNOLOGY*. ISSN 1861-1370, 2014, vol. 22, no., pp. 131., WOS

- [1.1] TALAPATRA, Shonima - GHOSHAL, Nirmalya - SEN RAYCHAUDHURI, Sarmistha. Molecular characterization, modeling and expression analysis of a somatic embryogenesis receptor kinase (SERK) gene in *Momordica charantia* L. during somatic embryogenesis. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2014, vol. 116, no. 3, pp. 271., WOS
- [1.1] XIN, W. - LIU, Z. - SONG, Y. - HOU, T. - XIANG, F. Direct shoot regeneration from *Arabidopsis thaliana* shoot apical meristems. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2012, vol. 56, no. 4, pp. 601., WOS
- [3] Pei, Li-li - Guo, Yu-hua - Xu, Zhao-shi - Li, Lian-cheng - Chen, Ming - Ma, You-zhi. Research Progress on Stress-related Protein Kinases in Plants. In. *Xibei Zhiwu Xuebao*, 2012, vol.32, no. 5, p. 1052-1061.

ADCA133 SALAJ, Ján - PETROVSKÁ, Beáta - OBERT, Bohuš - PREŤOVÁ, Anna. Histological study of embryo-like structures initiated from hypocotyl segments of flax (*Linum usitatissimum* L.). In *Plant Cell Reports* Vol. 24, no. 10 (2005), p. 590-595. - Wien : Springer Verlag. ISSN 0721-7714.

Ohlasy:

- [1.1] ANTONY, Jessica Jeyanthi James - SUNDARASEKAR, Jeevandran - RATHINAM, Xavier - MARIMUTHU, Kasi - SUBRAMANIAM, Sreeramanan. Microscopical analysis of in vitro Mokara Broga Giant orchid's PLBs. In EMIRATES JOURNAL OF FOOD AND AGRICULTURE. ISSN 2079-052X, 2014, vol. 26, no. 1, pp. 73., WOS
- [1.1] BUENDIA-GONZALEZ, L. - ESTRADA-ZUNIGA, M. E. - OROZCO-VILLAFUERTE, J. - CRUZ-SOSA, F. - VERNON-CARTER, E. J. Somatic embryogenesis of the heavy metal accumulator *Prosopis laevigata*. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 108, no. 2, pp. 287., WOS
- [1.1] BURBULIS, Natalija - BLINSTRUBIENE, Ausra - KUPIRIENE, Ramune. Effect of genotype and medium composition on linseed (*Linum usitatissimum*) ovary culture. In BIOLOGIA, 2011, vol.66, no.3, 465., WOS
- [1.1] BURBULIS, Natalija - BLINSTRUBIENE, Ausra - MASIENE, Ramune - JANKAUSKIENE, Zofija - GRUZDEVIENE, Elvyra. Genotypic and growth regulator effects on organogenesis from hypocotyl explants of fiber flax (*Linum usitatissimum* L.). In JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT. ISSN 1459-0255, 2012, vol. 10, no. 1, pp. 397., WOS
- [1.1] BURBULIS, Natalija - BLINSTRUBIENE, Ausra - MASIENE, Ramune - JONYTIENE, Vaida. Influence of genotype, growth regulators and sucrose concentration on linseed (*Linum usitatissimum* L.) anther culture. In JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT. ISSN 1459-0255, 2012, vol. 10, no. 3-4, pp. 764., WOS
- [1.1] KONOTOP, Yevheniia - MESZAROS, Patrik - SPIESS, Nadine - MISTRIKOVA, Veronika - PIRSELOVA, Beata - LIBANTOVA, Jana - MORAVCIKOVA, Jana - TARAN, Natalia - HAUPTOGEL, Pavol - MATUSIKOVA, Ildiko. Defense responses of soybean roots during exposure to cadmium, excess of nitrogen supply and combinations of these stressors. In MOLECULAR BIOLOGY REPORTS. ISSN 0301-4851, 2012, vol. 39, no. 12, pp. 10077., WOS
- [1.1] NOWAK, K. - WOJCIKOWSKA, B. - SZYRAJEW, K. - GAJ, M. D. Evaluation of different embryogenic systems for production of true somatic

embryos in Arabidopsis. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2012, vol. 56, no. 3, pp. 401., WOS

[1.1] POPIELARSKA-KONIECZNA, Marzena - KOZIERADZKA-KISZKURNO, Małgorzata - BOHDANOWICZ, Jerzy. Cutin plays a role in differentiation of endosperm-derived callus of kiwifruit. In PLANT CELL REPORTS, 2011, vol.30, no.11, 2143., WOS

[1.1] ROHANI, Emelda Rosseleena - ISMANIZAN, Ismail - NOOR, Normah Mohd. Somatic embryogenesis of mangosteen. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 110, no. 2, pp. 251., WOS

[1.2] GARSHASBI, H. - OMIDI, M. - TORABI, S. - DAVODI, D. The study of phytohormones and explants on callus induction and regeneration of sainfoin (*Onobrychis sativa*). In Pakistan Journal of Agricultural Sciences, 2012, 49, 3, pp. 289-292., SCOPUS

[1.2] KOKINA, I. - ŚLĘDEVSKIS, E. - GERBREDERS, V. - GRAUDA, D. - JERMAŁONOKA, M. - VALAINE, K. - GAVARANE, I. - PIGIŃKA, I. - FILIPOVIČS, M. - RASHAL, I. Reaction of flax (*linum usitatissimum L.*) calli culture to supplement of medium by carbon nanoparticles. In Proceedings of the Latvian Academy of Sciences, Section B: Natural, Exact, and Applied Sciences, 2012, 66, 4-5, pp. 200-209., SCOPUS

[9] GUO, Ling-Ling - MIAO, Shu-Kui - JI, Qiao-Ling - JIANG, Li. High Frequency Somatic Embryogenesis and Histological Observation on *Linum usitatissimum L.* 'Fany'. In Bulletin of Botanical Research, 2011, vol. 31, no. 3, p. 306-312.

ADCA134 SALAJ, Ján - SCHORNAGEL, M.J. - SCHMIDT, E.D.L. - SCHEL, J.H.N. In situ histone H4 mRNA detection in shoot apical meristems of juvenile and adult *Acacia mangium* Willd. In *Acta botanica Neerlandica*, 1996, vol. 45, no. 4, p. 575-575.

Ohlasy:

[1.1] HATT, Clemence - MANKESSI, Francois - DURAND, Jean-Baptiste - BOUDON, Frederic - MONTES, Fabienne - LARTAUD, Marc - VERDEIL, Jean-Luc - MONTEUUIS, Olivier. Characteristics of *Acacia mangium* shoot apical meristems in natural and in vitro conditions in relation to heteroblasty. In TREES-STRUCTURE AND FUNCTION. ISSN 0931-1890, 2012, vol. 26, no. 3, pp. 1031., WOS

ADCA135 SALAJ, Ján - KORMUTÁK, Andrej. Structural-changes in Mesophyll cells of *Abies-Alba* mill during the Autumn-Spring Period. In *Biologia*, 1995, vol. 50, no. 1, p. 93-98. ISSN 1335-6372.

Ohlasy:

[1.1] CHOUDHRY, Namrta - SINGH, Shweta - SIDDIQUI, Mohammad Badruzzaman - KHATOON, Sayyada. Impact of Seasons and Dioecy on Therapeutic Phytoconstituents of *Tinospora cordifolia*, a Rasayana Drug. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2014, vol., no., pp., WOS

[1.1] PELLISSIER, Francois. Early physiological responses of *Abies alba* and *Rubus fruticosus* to ungulate herbivory. In PLANT ECOLOGY. ISSN 1385-0237, 2013, vol. 214, no. 1, pp. 127., WOS

- ADCA136 SALAJ, Ján - KOSOVA, A. - KORMUTÁK, Andrej - WALLE, B. Ultrastructural and molecular study of plastid inheritance in *Abies alba* and some *Abies* hybrids. In *Sexual Plant Reproduction*, 1998, vol.11, no. 5, p. 284-291. ISSN 0934-0882.
- Ohlasy:
- [1.1] BALLIAN, Dalibor - BOGUNIC, Faruk - BAJRIC, Muhamed - KAJBA, Davorin - KRAIGHER, Hojka - KONNERT, Monika. The genetic population study of Balkan Silver Fir (*Abies alba* Mill.). In *PERIODICUM BIOLOGORUM*. ISSN 0031-5362, 2012, vol. 114, no. 1, pp. 55., WOS
- ADCA137 SALAJ, Terézia - MORAVČÍKOVÁ, Jana - VOOKOVÁ, Božena - SALAJ, Ján. Agrobacterium-mediated transformation of embryogenic tissues of hybrid firs (*Abies* spp.) and regeneration of transgenic emblings. In *Biotechnology Letters*, 2009, vol.31, no.5, p.647-652. (1.595 - IF2008). (2009 - Current Contents). ISSN 0141-5492.
- Ohlasy:
- [1.1] BRIZA, Jindrich - PAVINGEROVA, Daniela - VLASAK, Josef - NIEDERMEIEROVA, Hana. Norway spruce (*Picea abies*) genetic transformation with modified Cry3A gene of *Bacillus thuringiensis*. In *ACTA BIOCHIMICA POLONICA*. ISSN 0001-527X, 2013, vol. 60, no. 3, pp. 395., WOS
- ADCA138 SALAJ, Terézia - PANIS, B. - SWENNEN, R. - SALAJ, Ján. Cryopreservation of embryogenic tissues of *Pinus nigra* Arn. by a slow freezing method. In *Cryo-Letters*, 2007, vol. 28, no. 2, p. 69-76. ISSN 0143-2044.
- Ohlasy:
- [1.1] ALVAREZ, Jose M. - BUENO, Natalia - CORTIZO, Millan - ORDAS, Ricardo J. Improving plantlet yield in *Pinus pinaster* somatic embryogenesis. In *SCANDINAVIAN JOURNAL OF FOREST RESEARCH*. ISSN 0282-7581, 2013, vol. 28, no. 7, pp. 613., WOS
- [1.1] ALVAREZ, Jose M. - CORTIZO, Milian - ORDAS, Ricardo J. CRYOPRESERVATION OF SOMATIC EMBRYOGENIC CULTURES OF *Pinus pinaster*: EFFECTS ON REGROWTH AND EMBRYO MATURATION. In *CRYOLETTERS*. ISSN 0143-2044, 2012, vol. 33, no. 6, pp. 476., WOS
- [1.1] GUZMAN-GARCIA, E. - BRADAI, F. - SANCHEZ-ROMERO, C. Cryopreservation of avocado embryogenic cultures using the droplet-vitrification method. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2013, vol. 35, no. 1, pp. 183., WOS
- [3] Cuesta, C - Novak, O - Ordas, R J. Endogenous cytokinin profiles and their relationships to between-family differences during adventitious caulogenesis in *Pinus pinea* cotyledons. In *Journal of plant physiology*, 2012, vol. 169, no. 18, p. 1830-1837.
- ADCA139 SALAJ, Terézia - BLEHOVÁ, Alžbeta - SALAJ, Ján. Embryogenic suspension cultures of *Pinus nigra* Arn.: growth parameters and maturation ability. In *Acta Physiologiae Plantarum*. ISSN 0137-5881.
- Ohlasy:
- [1.1] LELU-WALTER, Marie-Anne - THOMPSON, David - HARVENGT, Luc - SANCHEZ, Leopoldo - TORIBIO, Mariano - PAQUES, Luc E. Somatic embryogenesis in forestry with a focus on Europe: state-of-the-art, benefits,

challenges and future direction. In TREE GENETICS & GENOMES. ISSN 1614-2942, 2013, vol. 9, no. 4, pp. 883., WOS

- ADCA140 SALAJ, Terézia - JASIK, J. - KORMUTÁK, Andrej - SALAJ, Ján - HAKMAN, I. Embryogenic culture initiation and somatic embryo development in hybrid firs (Abies alba x Abies cephalonica, and Abies alba x Abies numidica). In *Plant Cell Reports*, 1996, vol.15, no. 7, p. 527-530. ISSN 0721-7714.
- Ohlasy:
- [1.1] CALIC, Dusica - BOHANEC, Borut - DEVRNJA, Nina - MILOJEVIC, Jelena - TUBIC, Ljiljana - KOSTIC, Igor - ZDRAVKOVIC-KORAC, Snezana. Impact of abscisic acid in overcoming the problem of albinism in horse chestnut androgenic embryos. In TREES-STRUCTURE AND FUNCTION. ISSN 0931-1890, 2013, vol. 27, no. 3, pp. 755., WOS
  - [1.1] CALIC, Dusica - DEVRNJA, Nina - MILOJEVIC, Jelena - KOSTIC, Igor - JANOSEVIC, Dusica - BUDIMIR, Snezana - ZDRAVKOVIC-KORAC, Snezana. Abscisic Acid Effect on Improving Horse Chestnut Secondary Somatic Embryogenesis. In HORTSCIENCE. ISSN 0018-5345, 2012, vol. 47, no. 12, pp. 1741., WOS
  - [1.1] Carrillo-Benitez, M.G. - Rodriguez-De La, O.J.L. - Alvarez-Montezuma, J.G. In vitro morphogenesis in Pseudotsuga menziesii var. glauca. In Revista Chapingo, Serie Ciencias Forestales y de Ambiente, 2011, vol. 17, no. 2, p. 273-282., WOS
  - [1.1] GUADALUPE CARRILLO-BENITEZ, Maria - LUIS RODRIGUEZ-DE LA O, Jose - GUADALUPE ALVAREZ-MOCTEZUMA, Jose. IN VITRO MORPHOGENESIS IN Pseudotsuga menziesii VAR. glauca. In REVISTA CHAPINGO SERIE CIENCIAS FORESTALES Y DEL AMBIENTE, 2011, vol.17, no.2, 273-282., WOS
  - [1.1] VONDRAKOVA, Zuzana - ELIASOVA, Katerina - FISCHEROVA, Lucie - VAGNER, Martin. The role of auxins in somatic embryogenesis of Abies alba. In CENTRAL EUROPEAN JOURNAL OF BIOLOGY, 2011, vol.6, no.4, 587-596., WOS
  - [1.2] Korecky, J. - Vitamvas, J. Somatic embryogenesis of the hybrid Abies cilicica x Abies cephalonica. In Journal of Forest Science, 2011, vol.57, no. 9, p. 401-408., SCOPUS
  - [1.2] Sharma, V - Gupta, S.K - Dhiman, M. Regeneration of plants from nodal and internodal segment cultures of Ephedra gerardiana using thidiazuron. In Plant Tissue Culture and Biotechnology, 2013, vol. 22, no. 2, p. 153-161., SCOPUS
  - [3.1] Krajňáková, J., Goemoery, D., Häggman, H.: Biotechnology tools for Conservation of the Biodiversity of European and Mediterranean Abies species. In: Biotechnology and Biodiversity. Eds. Ahuja, M.R., Ramawat, K.G., Springer International Publishing, Switzerlanf, 2014, pp. 287-310.

- ADCA141 SALAJ, Terézia - SALAJ, Ján - KORMUTÁK, Andrej. Initiation of embryogenic tissues and plantlet regeneration from somatic embryos of Pinus nigra Arn. In *Plant Science*, 1999, vol. 145, no. 1, p. 33-40. ISSN 0168-9452.

Ohlasy:

- [1.1] CRISTOFOLINI, Caroline - VIEIRA, Leila do Nascimento - DE FREITAS FRAGA, Hugo Pacheco - DA COSTA, Itayguara Ribeiro - GUERRA, Miguel Pedro - PESCADOR, Rosete. DNA methylation patterns and karyotype

analysis of off-type and normal phenotype somatic embryos of feijoa. In THEORETICAL AND EXPERIMENTAL PLANT PHYSIOLOGY. ISSN 2197-0025, 2014, vol. 26, no. 3-4, pp. 217., WOS  
[1.1] SALAJ, Terezia - FRATEROVA, Lenka - CARACH, Martin - SALAJ, Jan. The effect of culture medium formulation on Pinus nigra somatic embryogenesis. In DENDROBIOLOGY. ISSN 1641-1307, 2014, vol. 71, no., pp. 119., WOS

ADCA142 SALAJ, Terézia - MATUŠÍKOVÁ, Ildikó - PANIS, B. - SWENNEN, R. - SALAJ, Ján. Recovery and characterisation of hybrid firs (*Abies alba* x *A. cephalonica*, *Abies alba* x *A. numidica*) embryogenic tissues after cryopreservation. In *Cryo-Letters*, 2010, vol. 31, no. 3, p. 206-217. (1.074 - IF2009). (2010 - Current Contents). ISSN 0143-2044.

Ohlasy:

- [1.1] KONG, Lisheng - VON ADERKAS, Patrick. A novel method of cryopreservation without a cryoprotectant for immature somatic embryos of conifer. In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.106, no.1, 115., WOS
- [1.1] KRAJNAKOVA, Jana - BERTOLINI, Alberto - GOEMOERY, Dusan - VIANELLO, Angelo - HAGGMAN, Hely. Initiation, long-term cryopreservation, and recovery of *Abies alba* Mill. embryogenic cell lines. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT. ISSN 1054-5476, 2013, vol. 49, no. 5, pp. 560., WOS
- [1.1] SOLOV&APOS;EVA, A. I. - DOLGIKH, Yu. I. - VYSOTSKAYA, O. N. - POPOV, A. S. Patterns of ISSR and REMAP DNA markers after cryogenic preservation of spring wheat calli by dehydration method. In RUSSIAN JOURNAL OF PLANT PHYSIOLOGY, 2011, vol.58, no.3, 423., WOS
- [3.1] Krajňáková, J., Goemoery, D., Häggman, H.: Biotechnology tools for Conservation of the Biodiversity of European and Mediterranean Abies species. In: Biotechnology and Biodiversity. Eds. Ahuja, M.R., Ramawat, K.G., Springer International Publishing, Switzerlanf, 2014, pp. 287-310.

ADCA143 SALAJ, Terézia - MATUŠÍKOVÁ, Ildikó - FRÁTEROVÁ, Lenka - PIRŠELOVÁ, Beáta - SALAJ, Ján. Regrowth of embryogenic tissues of *Pinus nigra* following cryopreservation. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2011, vol. 106, no. 1, p. 55-61. (1.243 - IF2010). (2011 - Current Contents). ISSN 0167-6857.

Ohlasy:

- [1.1] ANTONY, Jessica Jeyanthi James - KENG, Chan Lai - RATHINAM, Xavier - MARIMUTHU, Santini - SUBRAMANIAM, Sreeramanan. Effect of preculture and PVS2 incubation conditions followed by histological analysis in the cryopreserved PLBs of *Dendrobium Bobby Messina* orchid. In AUSTRALIAN JOURNAL OF CROP SCIENCE, 2011, vol.5, no.12, 1557., WOS
- [1.1] ANTONY, Jessica Jeyanthi James - MUBBARAKH, Safiah Ahmad - MAHMOOD, Maziah - SUBRAMANIAM, Sreeramanan. Effect of Plasmolysis on Protocorm-Like Bodies of *Dendrobium Bobby Messina* Orchid Following Cryopreservation with Encapsulation-Dehydration Method. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2014, vol. 172, no. 3, pp. 1433., WOS

- [1.1] COELHO, Natacha - ELENA GONZALEZ-BENITO, Maria - MARTIN, Carmen - ROMANO, Anabela. CRYOPRESERVATION OF THYMUS LOTOCEPHALUS SHOOT TIPS AND ASSESSMENT OF GENETIC STABILITY. In CRYOLETTERS. ISSN 0143-2044, 2014, vol. 35, no. 2, pp. 119., WOS
- [1.1] GALE, Samantha - BENSON, Erica E. - HARDING, Keith. A LIFE CYCLE MODEL TO ENABLE RESEARCH OF CRYOSTORAGE RECALCITRANCE IN TEMPERATE WOODY SPECIES: THE CASE OF SITKA SPRUCE (*Picea sitchensis*). In CRYOLETTERS. ISSN 0143-2044, 2013, vol. 34, no. 1, pp. 30., WOS
- [1.1] HONG SEN-RONG - YIN MING-HUA. A simple and efficient protocol for cryopreservation of embryogenic calli of the medicinal plant *Anemarrhena asphodeloides* Bunge by vitrification. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 109, no. 2, pp. 287., WOS
- [1.1] KULUS, Dariusz - ZALEWSKA, Małgorzata. Cryopreservation as a tool used in long-term storage of ornamental species A review. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2014, vol. 168, no., pp. 88., WOS
- [1.1] MARCO-MEDINA, Ana - CASAS, Jose Luis. RAPD AND PHYTOCHEMICAL ANALYSIS OF *Thymus moroderi* PLANTLETS AFTER CRYOPRESERVATION. In CRYOLETTERS. ISSN 0143-2044, 2013, vol. 34, no. 2, pp. 119., WOS
- [1.1] MERHY, T. S. M. - VIANNA, M. G. - GARCIA, R. O. - PACHECO, G. - MANSUR, E. CRYOPRESERVATION OF *Passiflora pohlii* NODAL SEGMENTS AND ASSESSMENT OF GENETIC STABILITY OF REGENERATED PLANTS. In CRYOLETTERS. ISSN 0143-2044, 2014, vol. 35, no. 3, pp. 204., WOS
- [1.1] MOHANTY, P. - DAS, M. C. - KUMARIA, S. - TANDON, P. Cryopreservation of pharmaceutically important orchid *Dendrobium chrysanthum* Wall. ex Lindl. using vitrification based method. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2013, vol. 35, no. 4, pp. 1373., WOS
- [1.1] PADRO, Maria Dolores Arias - FRATTARELLI, Andrea - SGUEGLIA, Alessandra - CONDELLO, Emiliano - DAMIANO, Carmine - CABONI, Emilia. Cryopreservation of white mulberry (*Morus alba* L.) by encapsulation-dehydration and vitrification. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 108, no. 1, pp. 167., WOS
- [1.1] RABBA&APOS;A, Manar M. - SHIBLI, Rida A. - SHATNAWI, Mohamad A. Cryopreservation of *Teucrium polium* L. shoot-tips by vitrification and encapsulation-dehydration. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 110, no. 3, pp. 371., WOS
- [1.1] SCHLOEGL, Paulo Sergio - WENDT DOS SANTOS, Andre Luis - VIEIRA, Leila do Nascimento - SEGAL FLOH, Eny Iochevet - GUERRA, Miguel Pedro. Gene expression during early somatic embryogenesis in Brazilian pine (*Araucaria angustifolia* (Bert) O. Ktze). In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 108, no. 1, pp. 173., WOS
- [1.1] STEINER, Neusa - SANTA-CATARINA, Claudete - GUERRA, Miguel Pedro - CUTRI, Lucas - DORNELAS, Marcelo C. - FLOH, Eny I. S. A gymnosperm homolog of SOMATIC EMBRYOGENESIS RECEPTOR-LIKE KINASE-1 (SERK1) is expressed during somatic embryogenesis. In PLANT

CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 109, no. 1, pp. 41., WOS

[1.2] POOBATHY, Ranjetta - XAVIER, Rathinam - SINNIAH, Uma Rani - SREERAMANAN, Subramaniam. Molecular stability of protocorm-like bodies of Dendrobium sonia-28 after encapsulation-dehydration and vitrification. In Australian Journal of Crop Science. ISSN 18352693, 2013-04-04, 7, 2, pp. 189-195., SCOPUS

[1.2] SEN-RONG, H. - MING-HUA, Y. A simple and efficient protocol for cryopreservation of embryogenic calli of the medicinal plant Anemarrhena asphodeloides Bunge by vitrification. In Plant Cell, Tissue and Organ Culture, 2012, 109, 2, pp. 287-296., SCOPUS

ADCA144 SALAJ, Terézia - SALAJ, Ján. Somatic embryogenesis in European black pine (*Pinus nigra* Arn.). In *Biologia Plantarum : international journal*, 1992, vol. 4, no. 3-4, p. 213-218. (1992 - Current Contents). ISSN 0006-3134.

Ohlasy:

[1.1] MUSCOLO, Adele - SIDARI, Maria - DA SILVA, Jaime A. Texeira. Biological effects of water-soluble soil phenol and soil humic extracts on plant systems. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2013, vol. 35, no. 2, pp. 309., WOS

[1.1] PULLMAN, Gerald S. - BUCALO, Kylie - THORPE, TA - YEUNG, EC. Pine Somatic Embryogenesis Using Zygotic Embryos as Explants. In PLANT EMBRYO CULTURE: METHODS AND PROTOCOLS, 2011, vol.710, no., 267., WOS

ADCA145 SALAJ, Terézia - SALAJ, Ján. Somatic embryogenesis in *Pinus nigra*: maturation and regeneration ability of embryogenic tissue initiation, established cell lines. In *Biologia Plantarum : international journal*, 2005, vol. 49, no. 3, p. 333-339. (0.744 - IF2004). ISSN 0006-3134.

Ohlasy:

[1.1] LARA-CHAVEZ, Alejandra - FLINN, Barry S. - EGERTSDOTTER, Ulrika. Initiation of somatic embryogenesis from immature zygotic embryos of Oocarpa pine (*Pinus oocarpa* Schiede ex Schlectendal). In TREE PHYSIOLOGY, 2011, vol.31, no.5, 539., WOS

[1.1] MONTALBAN, I. A. - DE DIEGO, N. - MONCALEAN, P. Enhancing initiation and proliferation in radiata pine (*Pinus radiata* D. Don) somatic embryogenesis through seed family screening, zygotic embryo staging and media adjustments. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2012, vol. 34, no. 2, pp. 451., WOS

[1.1] PULLMAN, Gerald S. - BUCALO, Kylie - THORPE, TA - YEUNG, EC. Pine Somatic Embryogenesis Using Zygotic Embryos as Explants. In PLANT EMBRYO CULTURE: METHODS AND PROTOCOLS, 2011, vol.710, no., 267., WOS

[1.1] SHIN, Hanna - KIM, Yong-Wook. Somatic embryogenesis of *Pinus rigida* x *P. taeda* and the relationship between the initiation of embryogenic tissue and zygotic embryo development. In PLANT BIOTECHNOLOGY REPORTS. ISSN 1863-5466, 2012, vol. 6, no. 2, pp. 175., WOS

[1.1] VOOKOVA, Bozena - KORMUTAK, Andrej. Study of *Abies* somatic embryogenesis and its application. In DENDROBIOLOGY. ISSN 1641-1307, 2014, vol. 71, no., pp. 149., WOS

ADCA146 SALAJ, Terézia - SALAJ, Ján. Somatic embryo formation on mature *Abies alba* x *Abies cephalonica* zygotic embryo explants. In *Biologia Plantarum : international journal*, 2003, vol. 47, no.1, p. 7-11. ISSN 0006-3134.

Ohlasy:

- [1.1] VOOKOVA, Bozena - KORMUTAK, Andrej. Study of *Abies* somatic embryogenesis and its application. In *DENDROBIOLOGY*. ISSN 1641-1307, 2014, vol. 71, no., pp. 149., WOS
- [1.2] Korecky, J. - Vitamvas, J. Somatic embryogenesis of the hybrid *Abies cilicica* x *Abies cephalonica*. In *Journal of Forest Science*, 2011, vol.57, no. 9, p. 401-408., SCOPUS
- [3] Maiad M. El Dawayati - Ola H. Abd EL Bar - Zeinab E. Zaid - Amal F.M. Zein El Din. In vitro morpho-histological studies of newly developed embryos from abnormal malformed embryos of date palm cv. Gundila under desiccation effect of polyethelyne glycol treatments. In *Annals of Agricultural Sciences*, 2012, Vol. 57, no. 2, p. 117–128.
- [3.1] Krajňáková, J., Goemoery, D., Häggman, H.: Biotechnology tools for Conservation of the Biodiversity of European and Mediterranean *Abies* species. In: *Biotechnology and Biodiversity*. Eds. Ahuja, M.R., Ramawat, K.G., Springer International Publishing, Switzerlanf, 2014, pp. 287-310.

ADCA147 SALAJ, Terézia - SALAJ, Ján. Somatic embryogenesis and plantlet regeneration from cotyledon explants isolated from emblings and seedlings of hybrid firs. In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*, 2001, vol. 158, no. 6, p. 747-755. (0.943 - IF2000). (2001 - Current Contents). ISSN 0176-1617.

Ohlasy:

- [1.1] KLIMASZEWSKA, Krystyna - OVERTON, Catherine - STEWART, Don - RUTLEDGE, Robert G. Initiation of somatic embryos and regeneration of plants from primordial shoots of 10-year-old somatic white spruce and expression profiles of 11 genes followed during the tissue culture process. In *PLANTA*, 2011, vol.233, no.3, 635., WOS
- [1.1] KUBES, Martin - DRAZNA, Nikola - KONRADOVA, Hana - LIPAVSKA, Helena. Robust carbohydrate dynamics based on sucrose resynthesis in developing Norway spruce somatic embryos at variable sugar supply. In *IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT*. ISSN 1054-5476, 2014, vol. 50, no. 1, pp. 45., WOS
- [1.2] Korecky, J. - Vitamvas, J. Somatic embryogenesis of the hybrid *Abies cilicica* x *Abies cephalonica*. In *Journal of Forest Science*, 2011, vol.57, no. 9, p. 401-408., SCOPUS
- [3.1] Krajňáková, J., Goemoery, D., Häggman, H.: Biotechnology tools for Conservation of the Biodiversity of European and Mediterranean *Abies* species. In: *Biotechnology and Biodiversity*. Eds. Ahuja, M.R., Ramawat, K.G., Springer International Publishing, Switzerlanf, 2014, pp. 287-310.

ADCA148 SALAJ, Terézia - MATÚŠOVÁ, Radoslava - SALAJ, Ján. The effect of carbohydrates and polyethylene glycol on somatic embryo maturation in hybrid fir *Abies alba* x *Abies numidica*. In *Acta Biologica Cracoviensia.Series Botanica*, 2004, vol. 46, p. 159-167. ISSN 0001-5296.

Ohlasy:

- [1.1] BUSINGE, Edward - BYGDELL, Joakim - WINGSLE, Gunnar - MORITZ, Thomas - EGERTSDOTTER, Ulrika. The effect of carbohydrates and osmoticum on storage reserve accumulation and germination of Norway spruce somatic embryos. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2013, vol. 149, no. 2, pp. 273., WOS
- [1.1] HRIB, Jiri - ADAMEC, Vaclav - SEDLACEK, Vojtch - VOOKOVA, Bozena. Passive defense in somatic embryos of *Abies alba* from two cell lines tested with *Phaeolus schweinitzii*. In *DENDROBIOLOGY*. ISSN 1641-1307, 2013, vol. 70, no., pp. 83., WOS
- [1.1] KRAJNAKOVA, Jana - NIEMI, Karoliina - GOEMOERY, Dusan - HAGGMAN, Hely. Effects of different ectomycorrhizal fungi on somatic embryogenesis of *Abies cephalonica* Loud. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2012, vol. 109, no. 2, pp. 353., WOS
- [1.1] VOOKOVA, Bozena - KORMUTAK, Andrej. Study of *Abies* somatic embryogenesis and its application. In *DENDROBIOLOGY*. ISSN 1641-1307, 2014, vol. 71, no., pp. 149., WOS
- [1.1] YADOLLAHI, A. - ABDOLLAHI, M. R. - MOIENI, A. - DANAE, M. Effects of carbon source, polyethylene glycol and abscisic acid on secondary embryo induction and maturation in rapeseed (*Brassica napus* L.) microspore-derived embryos. In *ACTA PHYSIOLOGIAE PLANTARUM*, 2011, vol.33, no.5, 1905., WOS
- [1.2] OSMAN, Nurul Izzati - AWAL, Asmah - SIDIK, Norrizah Jaafar - ABDULLAH, Shamsiah. Callus induction and somatic embryogenesis from leaf and nodal explants of *Lycium barbarum* L. (Goji). In *Biotechnology*. ISSN 1682296X, 2013-07-18, 12, 1, pp. 36-45., SCOPUS
- [3.1] Krajňáková, J., Goemoery, D., Häggman, H.: Biotechnology tools for Conservation of the Biodiversity of European and Mediterranean Abies species. In: *Biotechnology and Biodiversity*. Eds. Ahuja, M.R., Ramawat, K.G., Springer International Publishing, Switzerlanf, 2014, pp. 287-310.

ADCA149 SHENG, X. Y. - HU, Z. H. - LU, H. F. - WANG, X. H. - BALUŠKA, František - ŠAMAJ, Jozef - LIN, J. X. Roles of the ubiquitin/proteasome pathway in pollen tube growth with emphasis on MG132-induced alterations in ultrastructure, cytoskeleton, and cell wall components. In *Plant Physiology*, 2006, vol. 141, no. 4, p. 1578-1590. (6.114 - IF2005). (2006 - Current Contents). ISSN 0032-0889.

Ohlasy:

- [1.1] BONA, Elisa - MARSANO, Francesco - MASSA, Nadia - CATTANEO, Chiara - CESARO, Patrizia - ARGESE, Emanuele - DI TOPPI, Luigi Sanita - CAVALETTO, Maria - BERTA, Graziella. Proteomic analysis as a tool for investigating arsenic stress in *Pteris vittata* roots colonized or not by arbuscular mycorrhizal symbiosis. In *JOURNAL OF PROTEOMICS*, 2011, vol.74, no.8, 1338-1350., WOS
- [1.1] HOSP, Julia - RIBARITS, Alexandra - RETZER, Katarzyna - JIN, Yongfeng - TASHPULATOV, Alisher - RESCH, Tatiana - FRIEDMANN, Christina - ANKELE, Elisabeth - VORONIN, Viktor - PALME, Klaus - HEBERLE-BORS, Erwin - TOURAEV, Alisher. A tobacco homolog of DCN1 is involved in pollen development and embryogenesis. In *Plant Cell Reports*, 2014, vol. 33, no. 7, pp. 1187. ISSN 0721-7714., WOS
- [1.1] LARGO-GOSENS, Asier - HERNANDEZ-ALTAMIRANO, Mabel -

- GARCIA-CALVO, Laura - ALONSO-SIMON, Ana - ALVAREZ, Jesus - ACEBES, Jose L. Fourier transform mid infrared spectroscopy applications for monitoring the structural plasticity of plant cell walls. In *Frontiers in Plant Science*, 2014, vol. 5. ISSN 1664-462X., WOS
- [1.1] MIAO, Hong-Xia - QIN, Yong-Hua - YE, Zi-Xing - HU, Gui-Bing. Molecular characterization and expression analysis of ubiquitin-activating enzyme E1 gene in Citrus reticulata. In *Gene*, 2013, vol. 513, no. 2, pp. 249. ISSN 0378-1119., WOS
- [1.1] PENG, L. - ZHANG, L. - CHENG, X. - FAN, L.S. - HAO, H.Q. Disruption of cellulose synthesis by 2,6-dichlorobenzonitrile affects the structure of the cytoskeleton and cell wall construction in Arabidopsis. In *Plant Biology*, 2013, vol. 15, no. 2, p. 405-414. ISSN 1435-8603., WOS
- [1.1] VANNINI, Candida - BRACALE, Marcella - CRINELLI, Rita - MARCONI, Valerio - CAMPOMENOSI, Paola - MARSONI, Milena - SCOCCIANI, Valeria. Proteomic Analysis of MG132-Treated Germinating Pollen Reveals Expression Signatures Associated with Proteasome Inhibition. In *Plos One*, 2014, vol. 9, no. 9. ISSN 1932-6203., WOS
- [1.1] VANNINI, C. - DOMINGO, G. - MARSONI, M. - BRACALE, M. - SESTILI, S. - FICCAVENTI, N. - SPERANZA, A. - CRINELLI, R. - CARLONI, E. - SCOCCIANI, V. Proteomic changes and molecular effects associated with Cr(III) and Cr(VI) treatments on germinating kiwifruit pollen. In *PHYTOCHEMISTRY*, 2011, vol.72, no.14-15, 1786-1795., WOS
- [1.1] WANG, Songhu - KUREPA, Jasmina - HASHIMOTO, Takashi - SMALL, Jan A. Salt Stress-Induced Disassembly of Arabidopsis Cortical Microtubule Arrays Involves 26S Proteasome-Dependent Degradation of SPIRAL1. In *PLANT CELL*, 2011, vol.23, no.9, 3412-3427., WOS
- [1.1] WANG, Xiaoxia - GAO, Yuan - FENG, Yu - LI, Xue - WEI, Qian - SHENG, Xianyong. Cadmium Stress Disrupts the Endomembrane Organelles and Endocytosis during *Picea wilsonii* Pollen Germination and Tube Growth. In *Plos One*, 2014, vol. 9, no. 4. ISSN 1932-6203., WOS
- [1.1] WILKINS, Katie A. - POULTER, Natalie S. - FRANKLIN-TONG, Veronica E. Taking one for the team: self-recognition and cell suicide in pollen. In *Journal of Experimental Botany*, 2014, vol. 65, no. 5, pp. 1331. ISSN 0022-0957. ISSN 0022-0957., WOS
- [1.1] ZHONG, Jing - REN, YuJun - YU, Miao - MA, TengFei - ZHANG, XueLian - ZHAO, Jie. Roles of arabinogalactan proteins in cotyledon formation and cell wall deposition during embryo development of Arabidopsis. In *PROTOPLASMA*, 2011, vol.248, no.3, 551-563., WOS

ADCA150 SIVAGURU, M. - FUJIWARA, Toru - YANG, Z. - OSAWA, H. - ŠAMAJ, Jozef - BALUŠKA, František - MORI, T. - VOLKMANN, Dieter - MAEDA, T. - MATSUMOTO, H. Aluminum-induced 1 - 3-beta-D-glucan inhibits cell-to-cell trafficking of molecules through plasmodesmata. A new mechanism of aluminum toxicity in plants. In *Plant Physiology*, 2000, vol. 124, no. 3, p. 991-1018. (2000 - Current Contents). ISSN 0032-0889.

Ohlasy:

- [1.1] ALVIM, M. N. - RAMOS, F. T. - OLIVEIRA, D. C. - ISAIAS, R. M. S. - FRANCA, M. G. C. Aluminium localization and toxicity symptoms related to root growth inhibition in rice (*Oryza sativa* L.) seedlings. In *JOURNAL OF BIOSCIENCES*. ISSN 0250-5991, 2012, vol. 37, no. 6, pp. 1079., WOS

- [1.1] BAPTISTA GORDIN, Carla Regina - MARQUES, Rodolpho Freire - MARQUES ROSA, Rosangela Juliana - DOS SANTOS, Adriana Marques - QUINTAO SCALON, Silvana de Paula. Seedling emergence and early growth of jatropha plants exposed to aluminum. In SEMINA-CIENCIAS AGRARIAS. ISSN 1676-546X, 2013, vol. 34, no. 1, pp. 147., WOS
- [1.1] BARBERON, Marie - GELDNER, Niko. Radial Transport of Nutrients: The Plant Root as a Polarized Epithelium. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 166, no. 2, pp. 528., WOS
- [1.1] BATISTA, Michelli Fernandes - MOSCHETA, Ismar Sebastiao - BONATO, Carlos Moacir - BATISTA, Marcelo Augusto - GARCIA DE ALMEIDA, Odair Jose - INOUE, Tadeu Takeyoshi. ALUMINUM IN CORN PLANTS: INFLUENCE ON GROWTH AND MORPHO-ANATOMY OF ROOT AND LEAF. In REVISTA BRASILEIRA DE CIENCIA DO SOLO. ISSN 0100-0683, 2013, vol. 37, no. 1, pp. 177., WOS
- [1.1] BENITEZ-ALFONSO, Yoselin - JACKSON, David - MAULE, Andy. Redox regulation of intercellular transport. In PROTOPLASMA, 2011, vol.248, no.1, 131-140., WOS
- [1.1] BOSE, Jayakumar - BABOURINA, Olga - RENGEL, Zed. Role of magnesium in alleviation of aluminium toxicity in plants. In JOURNAL OF EXPERIMENTAL BOTANY, 2011, vol.62, no.7, 2251-2264., WOS
- [1.1] CASTILHOS, Graciela - FARIAS, Julia Gomes - SCHNEIDER, Adriano de Bernardi - DE OLIVEIRA, Paulo Henrique - NICOLOSO, Fernando Teixeira - CHITOLINA SCHETINGER, Maria Rosa - DELATORRE, Carla Andrea. Aluminum-stress response in oat genotypes with monogenic tolerance. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY, 2011, vol.74, no., 114-121., WOS
- [1.1] DE STORME, Nico - GEELEN, Danny. Callose homeostasis at plasmodesmata: molecular regulators and developmental relevance. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS
- [1.1] DOBNIK, David - BAEBLER, Spela - KOGOVSEK, Polona - POMPE-NOVAK, Marusa - STEBIH, Dejan - PANTER, Gabriela - JANEZ, Nikolaja - MORISSET, Dany - ZEL, Jana - GRUDEN, Kristina. beta-1,3-glucanase class III promotes spread of PVYNTN and improves in planta protein production. In PLANT BIOTECHNOLOGY REPORTS. ISSN 1863-5466, 2013, vol. 7, no. 4, pp. 547., WOS
- [1.1] DOGAN, Ilhan - OZYIGIT, Ibrahim Ilker - DEMIR, Goksel. INFLUENCE OF ALUMINUM ON MINERAL NUTRIENT UPTAKE AND ACCUMULATION IN URTICA PILULIFERA L. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2014, vol. 37, no. 3, pp. 469., WOS
- [1.1] ELEFTHERIOU, Eleftherios P. - ADAMAKIS, Ioannis-Dimosthenis S. - MELISSA, Pelagia. Effects of hexavalent chromium on microtubule organization, ER distribution and callose deposition in root tip cells of Allium cepa L. In PROTOPLASMA, 2012, vol.249, no.2, 401., WOS
- [1.1] FURUTA, Kaori - LICHTENBERGER, Raffael - HELARIUTTA, Yka. The role of mobile small RNA species during root growth and development. In CURRENT OPINION IN CELL BIOLOGY, 2012, vol.24, no.2, 211., WOS
- [1.1] GALLAGHER, Kimberly L. - SOZZANI, Rosangela - LEE, Chin-Mei - SCHEKMAN, R - LEHMANN, R. Intercellular Protein Movement: Deciphering the Language of Development. In ANNUAL REVIEW OF CELL

AND DEVELOPMENTAL BIOLOGY, VOL 30. ISSN 1081-0706, 2014, vol. 30, no., pp. 207., WOS

[1.1] GUERRIERO, Gea - GIORNO, Filomena - CICCOTTI, Anna Maria - SCHMIDT, Silvia - BARIC, Sanja. A gene expression analysis of cell wall biosynthetic genes in *Malus x domestica* infected by 'Candidatus Phytoplasma mali'; In TREE PHYSIOLOGY. ISSN 0829-318X, 2012, vol. 32, no. 11, pp. 1365., WOS

[1.1] HARRIES, Phillip - DING, Biao. Cellular factors in plant virus movement: At the leading edge of macromolecular trafficking in plants. In VIROLOGY, 2011, vol.411, no.2, 237-243., WOS

[1.1] HIRANO, Yasuhiro - FREY, Beat - BRUNNER, Ivano. Contrasting reactions of roots of two coniferous tree species to aluminum stress. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY, 2012, vol.77, no., 12., WOS

[1.1] HUANG, Chao-Feng - YAMAJI, Naoki - CHEN, Zhichang - MA, Jian Feng. A tonoplast-localized half-size ABC transporter is required for internal detoxification of aluminum in rice. In PLANT JOURNAL, 2012, vol.69, no.5, 857., WOS

[1.1] JUNG, Janelle K. H. - MCCOUCH, Susan. Getting to the roots of it: genetic and hormonal control of root architecture. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS

[1.1] KOH, Eun-Ji - ZHOU, Lijuan - WILLIAMS, Donna S. - PARK, Jiyoung - DING, Ningyuan - DUAN, Yong-Ping - KANG, Byung-Ho. Callose deposition in the phloem plasmodesmata and inhibition of phloem transport in citrus leaves infected with 'Candidatus Liberibacter asiaticus'; In PROTOPLASMA, 2012, vol.249, no.3, 687., WOS

[1.1] KRZESLOWSKA, Magdalena. The cell wall in plant cell response to trace metals: polysaccharide remodeling and its role in defense strategy. In ACTA PHYSIOLOGIAE PLANTARUM, 2011, vol.33, no.1, 35-51., WOS

[1.1] LIANG, Cuiyue - PINEROS, Miguel A. - TIAN, Jiang - YAO, Zhufang - SUN, Lili - LIU, Jiping - SHAFF, Jon - COLUCCIO, Alison - KOCHIAN, Leon V. - LIAO, Hong. Low pH, Aluminum, and Phosphorus Coordinately Regulate Malate Exudation through GmALMT1 to Improve Soybean Adaptation to Acid Soils. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2013, vol. 161, no. 3, pp. 1347., WOS

[1.1] LIU, Bin - LUO, Chengde - LI, Xianwei - GRAY, Lawrence - ZHANG, Fan - LIU, Mu - JU, Jialing - LEI, Bo. Research on the Threshold of Aluminum Toxicity and the Alleviation Effects of Exogenous Calcium, Phosphorus, and Nitrogen on the Growth of Chinese Fir Seedlings under Aluminum Stress. In COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS. ISSN 0010-3624, 2014, vol. 45, no. 1, pp. 126., WOS

[1.1] MOHAMMED, Yasir Serag Alnor - ELTAYEB, Amin Elsadig - TSUJIMOTO, Hisashi. Enhancement of aluminum tolerance in wheat by addition of chromosomes from the wild relative *Leymus racemosus*. In BREEDING SCIENCE. ISSN 1344-7610, 2013, vol. 63, no. 4, pp. 407., WOS

[1.1] MORITA, Akio - YANAGISAWA, Osamu - MAEDA, Setsuko - TAKATSU, Satoshi - IKKA, Takashi. Tea plant (*Camellia sinensis* L.) roots secrete oxalic acid and caffeine into medium containing aluminum. In SOIL SCIENCE AND PLANT NUTRITION, 2011, vol.57, no.6, 796-802., WOS

[1.1] PAL&APos;OVE-BALANG, Peter - BETTI, Marco - DIAZ, Pedro -

- PEREZ-DELGADO, Carmen M. - GARCIA CALDERON, Margarita - MONZA, Jorge - MARQUEZ, Antonio J. - GAUR, RK - SHARMA, P. Abiotic Stress in Lotus: Aluminum and Drought. In MOLECULAR APPROACHES IN PLANT ABIOTIC STRESS, 2014, vol., no., pp. 284., WOS
- [1.1] PIGNATTELLI, Sara - COLZI, Ilaria - BUCCANTI, Antonella - CATTANI, Ilenia - BEONE, Gian Maria - SCHAT, Henk - GONNELLI, Cristina. A multielement analysis of Cu induced changes in the mineral profiles of Cu sensitive and tolerant populations of *Silene paradoxa* L. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2013, vol. 96, no., pp. 20., WOS
- [1.1] PIRSELOVA, Beata - MISTRIKOVA, Veronika - LIBANTOVA, Jana - MORAVCIKOVA, Jana - MATUSIKOVA, Ildiko. Study on metal-triggered callose deposition in roots of maize and soybean. In BIOLOGIA, 2012, vol.67, no.4, 698., WOS
- [1.1] PIRSELOVA, B. - MATUSIKOVA, I. Callose: the plant cell wall polysaccharide with multiple biological functions. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2013, vol. 35, no. 3, pp. 635., WOS
- [1.1] RYAN, Peter R. - DELHAIZE, Emmanuel - SHABALA, S. Adaptations to Aluminium Toxicity. In PLANT STRESS PHYSIOLOGY, 2012, vol., no., pp. 171., WOS
- [1.1] RYAN, P. R. - TYERMAN, S. D. - SASAKI, T. - FURUICHI, T. - YAMAMOTO, Y. - ZHANG, W. H. - DELHAIZE, E. The identification of aluminium-resistance genes provides opportunities for enhancing crop production on acid soils. In JOURNAL OF EXPERIMENTAL BOTANY, 2011, vol.62, no.1, 9-20., WOS
- [1.1] SAGER, Ross - LEE, Jung-Youn. Plasmodesmata in integrated cell signalling: insights from development and environmental signals and stresses. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2014, vol. 65, no. 22, pp. 6337., WOS
- [1.1] SAMARDAKIEWICZ, Slawomir - KRZESLOWSKA, Magdalena - BILSKI, Henryk - BARTOSIEWICZ, Rafal - WOZNY, Adam. Is callose a barrier for lead ions entering *Lemna minor* L. root cells? In PROTOPLASMA, 2012, vol.249, no.2, 347., WOS
- [1.1] SILVA, Sonia - RODRIGUEZ, Eleazar - PINTO-CARNIDE, Olinda - MARTINS-LOPES, Paula - MATOS, Manuela - GUEDES-PINTO, Henrique - SANTOS, Conceicao. Zonal responses of sensitive vs. tolerant wheat roots during Al exposure and recovery. In JOURNAL OF PLANT PHYSIOLOGY, 2012, vol.169, no.8, 760., WOS
- [1.1] SUJKOWSKA-RYBKOWSKA, Marzena. Reactive oxygen species production and antioxidative defense in pea (*Pisum sativum* L.) root nodules after short-term aluminum treatment. In ACTA PHYSIOLOGIAE PLANTARUM, 2012, vol.34, no.4, 1387., WOS
- [1.1] SUJKOWSKA-RYBKOWSKA, Marzena - BORUCKI, Wojciech. Localization of hydrogen peroxide accumulation and diamine oxidase activity in pea root nodules under aluminum stress. In MICRON. ISSN 0968-4328, 2014, vol. 57, no., pp. 13., WOS
- [1.1] TOO, E. J. - CARLSSON, A. S. - ONKWARE, A. O. - WERE, B. A. - GELETA, M. - BRYNGELSSON, T. - GUDU, S. Cell membrane integrity, callose accumulation, and root growth in aluminum-stressed sorghum seedlings. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2014, vol. 58, no. 4, pp. 768., WOS

WOS

- [1.1] UMA, Battepati - RANI, T. Swaroopa - PODILE, Appa Rao. Warriors at the gate that never sleep: Non-host resistance in plants. In JOURNAL OF PLANT PHYSIOLOGY, 2011, vol.168, no.18, 2141-2152., WOS
- [1.1] VAN BEL, Aart J. E. - FURCH, Alexandra C. U. - WILL, Torsten - BUXTA, Stefanie V. - MUSSETTI, Rita - HAFKE, Jens B. Spread the news: systemic dissemination and local impact of Ca-2 signals along the phloem pathway. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2014, vol. 65, no. 7, pp. 1761., WOS
- [1.1] VAN DER SCHOOT, Christiaan - RINNE, Paivi L. H. Dormancy cycling at the shoot apical meristem: Transitioning between self-organization and self-arrest. In PLANT SCIENCE, 2011, vol.180, no.1, 120-131., WOS
- [1.1] VARDAR, Filiz - ISMAILOGLU, Isil - INAN, Deniz - UNAL, Meral. DETERMINATION OF STRESS RESPONSES INDUCED BY ALUMINUM IN MAIZE (ZEA MAYS). In ACTA BIOLOGICA HUNGARICA, 2011, vol.62, no.2, 156-170., WOS
- [1.1] VATEN, Anne - DETTMER, Jan - WU, Shuang - STIERHOF, York-Dieter - MIYASHIMA, Shunsuke - YADAV, Shri Ram - ROBERTS, Christina J. - CAMPILHO, Ana - BULONE, Vincent - LICHTENBERGER, Raffael - LEHESRANTA, Satu - MAHONEN, Ari Pekka - KIM, Jae-Yean - JOKITALO, Eija - SAUER, Norbert - SCHERES, Ben - NAKAJIMA, Keiji - CARLSBECKER, Annelie - GALLAGHER, Kimberly L. - HELARIUTTA, Yka. Callose Biosynthesis Regulates Symplastic Trafficking during Root Development. In DEVELOPMENTAL CELL, 2011, vol.21, no.6, 1144-1155., WOS
- [1.1] ZAVALIEV, Raul - UEKI, Shoko - EPEL, Bernard L. - CITOVSKY, Vitaly. Biology of callose (beta-1,3-glucan) turnover at plasmodesmata. In PROTOPLASMA, 2011, vol.248, no.1, 117-130., WOS
- [1.1] ZHOU, Gaofeng - DELHAIZE, Emmanuel - ZHOU, Meixue - RYAN, Peter R. The barley MATE gene, HvAACT1, increases citrate efflux and Al-3 tolerance when expressed in wheat and barley. In ANNALS OF BOTANY. ISSN 0305-7364, 2013, vol. 112, no. 3, pp. 603., WOS

ADCA151 SPIESS, N. - OUFIR, M. - MATUŠÍKOVÁ, Ildikó - STIERSCHNEIDER, M. - KOPECKÝ, D. - HOMOLKA, A. - BURG, K. - FLUCH, S. - HAUSMAN, J.F. - WILHELM, E. Ecophysiological and transcriptomic responses of oak (*Quercus robur*) to long-term drought exposure and rewetting. In *Environmental and Experimental Botany*, 2012, vol. 77, p. 117-126. (2.985 - IF2011). (2012 - Current Contents). ISSN 0098-8472.

Ohlasy:

- [1.1] BACKHAUS, Sabrina - KREYLING, Juergen - BEIERKUHNLEIN, Carl - BUHK, Constanze - NAGY, Laura - THIEL, Daniel - JENTSCH, Anke. A transplantation experiment along climatic gradients suggests limitations of experimental warming manipulations. In CLIMATE RESEARCH. ISSN 0936-577X, 2014, vol. 60, no. 1, pp. 63., WOS
- [1.1] EVLARD, Aricia - SERGEANT, Kjell - PRINTZ, Bruno - GUIGNARD, Cedric - RENAUT, Jenny - CAMPANELLA, Bruno - PAUL, Roger - HAUSMAN, Jean-Francois. A multiple-level study of metal tolerance in *Salix fragilis* and *Salix aurita* clones. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2014, vol. 101, no., pp. 113., WOS

- [1.1] HARFOUCHE, Antoine - MEILAN, Richard - ALTMAN, Arie. Molecular and physiological responses to abiotic stress in forest trees and their relevance to tree improvement. In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2014, vol. 34, no. 11, pp. 1181., WOS
- [1.1] KUSTER, Thomas M. - DOBBERTIN, Matthias - GUENTHARDT-GOERG, Madeleine S. - SCHAUB, Marcus - AREND, Matthias. A Phenological Timetable of Oak Growth under Experimental Drought and Air Warming. In *PLOS ONE*. ISSN 1932-6203, 2014, vol. 9, no. 2, pp., WOS
- [1.1] MODESTO, Ines S. - MIGUEL, Celia - PINA-MARTINS, Francisco - GLUSHKOVA, Maria - VELOSO, Manuela - PAULO, Octavio S. - BATISTA, Dora. Identifying signatures of natural selection in cork oak (*Quercus suber L.*) genes through SNP analysis. In *TREE GENETICS & GENOMES*. ISSN 1614-2942, 2014, vol. 10, no. 6, pp. 1645., WOS
- [1.1] PENUELAS, Josep - SARDANS, Jordi - ESTIARTE, Marc - OGAYA, Roma - CARNICER, Jofre - COLL, Marta - BARBETA, Adria - RIVAS-UBACH, Albert - LLUSIA, Joan - GARBULSKY, Martin - FILELLA, Iolanda - JUMP, Alistair S. Evidence of current impact of climate change on life: a walk from genes to the biosphere. In *GLOBAL CHANGE BIOLOGY*. ISSN 1354-1013, 2013, vol. 19, no. 8, pp. 2303., WOS
- [1.1] PETIT, Remy J. - CARLSON, John - CURTU, Alexandru L. - LOUSTAU, Marie-Laure - PLOMION, Christophe - GONZALEZ-RODRIGUEZ, Antonio - SORK, Victoria - DU COUSSO, Alexis. Fagaceae trees as models to integrate ecology, evolution and genomics. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2013, vol. 197, no. 2, pp. 369., WOS
- [1.1] PINHEIRO, Carla - GUERRA-GUIMARAES, Leonor - DAVID, Teresa S. - VIEIRA, Ana. Proteomics: State of the art to study Mediterranean woody species under stress. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2014, vol. 103, no., pp. 117., WOS
- [1.1] RIVAS-UBACH, Albert - GARGALLO-GARRIGA, Albert - SARDANS, Jordi - ORAVEC, Michal - MATEU-CASTELL, Laia - PEREZ-TRUJILLO, Miriam - PARELLA, Teodor - OGAYA, Roma - URBAN, Otmar - PENUELAS, Josep. Drought enhances folivory by shifting foliar metabolomes in *Quercus ilex* trees. In *NEW PHYTOLOGIST*. ISSN 1469-8137, 2014, vol. 202, no. 3, pp. 874., WOS
- [1.1] SARDANS, J. - GARGALLO-GARRIGA, A. - PEREZ-TRUJILLO, M. - PARELLA, T. J. - SECO, R. - FILELLA, I. - PENUELAS, J. Metabolic responses of *Quercus ilex* seedlings to wounding analysed with nuclear magnetic resonance profiling. In *PLANT BIOLOGY*. ISSN 1435-8603, 2014, vol. 16, no. 2, pp. 395., WOS

ADCA152 SZIDERICS, A.H - OUFIR, M. - TROGNITZ, F. - KOPECKY, D. - MATUŠÍKOVÁ, Ildikó - HAUSMAN, J.F - WILHELM, E. Organ-specific defence strategies of pepper (*Capsicum annuum L.*) during early phase of water deficit. In *Plant Cell Reports*, 2010, vol. 29, no. 3, p. 295-305. (2.301 - IF2009). (2010 - Current Contents). ISSN 0721-7714.

Ohlasy:

- [1.1] KRAL'OVÁ, Katarina - JAMPILEK, Josef - OSTROVSKÝ, Ivan. Metabolomics - Useful tool for study of plant responses to abiotic stresses. . In *ECOLOGICAL CHEMISTRY AND ENGINEERING S-CHEMIA I*

INZYNIERIA EKOLOGICZNA S. ISSN 1898-6196, 2012, vol. 19, no. 2, pp. 133., WOS

- [1.1] LI, Fang - LEI, Hengjiu - ZHAO, Xiangjuan - SHEN, Xinjie - LIU, Ailing - LI, Tianhong. Isolation and characterization of two sorbitol transporter gene promoters in micropropagated apple plants (*Malus x domestica*) regulated by drought stress. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2012, vol. 68, no. 3, pp. 475., WOS
- [1.1] YOOYONGWECH, Suravoot - CHA-UM, Suriyan - SUPAIBULWATANA, Kanyaratt. Proline related genes expression and physiological changes in indica rice response to water-deficit stress. In *PLANT OMICS*. ISSN 1836-0661, 2012, vol. 5, no. 6, pp. 597., WOS
- [3] Barchet, G.L.- Dauwe, R.- Guy, R.D.- Schroeder, W.R.- Soolanayakanahally, R.Y.- Campbell, M.M.- Mansfield, S.D. Investigating the drought-stress response of hybrid poplar genotypes by metabolite profiling. In *Tree Physiology*, 2013, doi: 10.1093/treephys/tpt080.
- [3] Menendez, A.B. - Rodriguez, A.A. - Maiale, S.J. - Rodriguez, K.M. - Jimenez, B.J.F. - Ruiz, O.A. In *Crop Improvement under Adverse Conditions*, Springer, ISBN 978-1-4614-4632-3, 2013, pp. 113-136.

ADCA153 ŠAMAJ, Jozef - SALAJ, Terézia - MATÚŠOVÁ, Radoslava - SALAJ, Ján - TAKÁČ, Tomáš - ŠAMAJOVÁ, Ol'ga - VOLKMANN, D. Arabinogalactan-protein epitope Gal4 is differentially regulated and localized in cell lines of hybrid fir (*Abies alba* x *Abies cephalonica*) with different embryogenic and regeneration potential. In *Plant Cell Reports*, 2008, vol. 27, no. 2, p. 221-229. (1.974 - IF2007). ISSN 0721-7714.

Ohlasy:

- [1.1] MALLON, Ruben - MARTINEZ, Teresa - CORREDOIRA, Elena - VIEITEZ, Ana M. The positive effect of arabinogalactan on induction of somatic embryogenesis in *Quercus bicolor* followed by embryo maturation and plant regeneration. In *TREES-STRUCTURE AND FUNCTION*. ISSN 0931-1890, 2013, vol. 27, no. 5, pp. 1285., WOS
- [1.1] NEDELA, V. - HRIB, J. - VOOKOVA, B. Imaging of early conifer embryogenic tissues with the environmental scanning electron microscope. In *BIOLOGIA PLANTARUM*, 2012, vol.56, no.3, 595., WOS
- [1.1] PALANYANDY, Sharrmila Rengeswari - SURANTHRAN, Periasamy - GANTAIT, Saikat - SINNIAH, Uma Rani - SUBRAMANIAM, Sreeramanan - AZIZ, Maheran Abdul - ALWEE, Sharifah Shahrul Rabiah Syed - ROOWI, Siti Habsah. In vitro developmental study of oil palm (*Elaeis guineensis* Jacq.) polyembryoids from cell suspension using scanning electron microscopy. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2013, vol. 35, no. 5, pp. 1727., WOS
- [1.1] POON, Simon - HEATH, Robyn Louise - CLARKE, Adrienne Elizabeth. A Chimeric Arabinogalactan Protein Promotes Somatic Embryogenesis in Cotton Cell Culture. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2012, vol. 160, no. 2, pp. 684., WOS
- [1.1] STEINMACHER, Douglas A. - SAARE-SURMINSKI, Katja - LIEBEREI, Reinhard. Arabinogalactan proteins and the extracellular matrix surface network during peach palm somatic embryogenesis. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2012, vol. 146, no. 3, pp. 336., WOS
- [1.1] WANG, Xiangming - SHI, Lei - LIN, Guimei - PAN, Xiao - CHEN,

Houbin - WU, Xiaoying - TAKAC, Tomas - SAMAJ, Jozef - XU, Chunxiang. A systematic comparison of embryogenic and non-embryogenic cells of banana (*Musa* spp. AAA): Ultrastructural, biochemical and cell wall component analyses. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2013, vol. 159, no., pp. 178., WOS

[1.1] YUSOFF, Nur Fatihah Mohd - ALWEE, Sharifah Shahrul Rabiah Syed - ABDULLAH, Meilina Ong - HO CHAI-LING - NAMASIVAYAM, Parameswari. A TIME COURSE ANATOMICAL ANALYSIS OF CALLOGENESIS FROM YOUNG LEAF EXPLANTS OF OIL PALM (*Elaeis guineensis* Jacq.). In JOURNAL OF OIL PALM RESEARCH, 2012, vol.24, no., 1330., WOS

[1.1] ZAGORCHEV, Lyuben - ODJAKOVA, Mariela. HYDROXYPROLINE RICH PROTEINS IN SALT ADAPTED EMBRYOGENIC SUSPENSION CULTURES OF DACTYLIS GLOMERATA L. In BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT, 2011, vol.25, no.2, 2321-2328., WOS

[1.2] COUILLOT, J.-P. - WINDELS, D. - VAZQUEZ, F. - MICHALSKI, J.-C. - HILBERT, J.-L. - BLERVACQ, A.-S. Pretreatments, conditioned medium and co-culture increase the incidence of somatic embryogenesis of different cichorium species. In Plant Signaling and Behavior, 2012, 7, 1, pp., SCOPUS

ADCA154 ŠAMAJ, Jozef - BALUŠKA, František - PREŤOVÁ, Anna - VOLKMANN, Dieter. Auxin deprivation induces a developmental switch in maize somatic embryogenesis involving redistribution of microtubules and actin filaments from endoplasmic to cortical cytoskeletal arrays. In *Plant Cell Reports*. - Wien : Springer Verlag, 2003, vol. 21, no. 10, p. 940-945. (1.375 - IF2002). (2003 - Current Contents). ISSN 0721-7714.

Ohlasy:

[1.1] ALMEIDA, Andre M. - PARREIRA, Jose R. - SANTOS, Romana - DUQUE, Ana Sofia - FRANCISCO, Rita - TOME, Daniel F. A. - RICARDO, Candido Pinto - COELHO, Ana Varela - FEVEREIRO, Pedro. A proteomics study of the induction of somatic embryogenesis in *Medicago truncatula* using 2DE and MALDI-TOF/TOF. In Physiologia Plantarum, 2012, vol. 146, no. 2, p. 236., WOS

[1.1] BLUME, Ya B. - KRASYLENKO, Yu A. - YEMETS, A. I. Effects of phytohormones on the cytoskeleton of the plant cell. In Russian Journal of Plant Physiology, 2012, vol. 59, no. 4, p. 515., WOS

[1.1] ELHITI, Mohamed - STASOLLA, Claudio - THORPE, TA - YEUNG, EC. The Use of Zygotic Embryos as Explants for In Vitro Propagation: An Overview. In PLANT EMBRYO CULTURE: METHODS AND PROTOCOLS, 2011, vol.710, no., 229., WOS

[1.1] NUNO-AYALA, Alejandro - RODRIGUEZ-GARAY, Benjamin - GUTIERREZ-MORA, Antonia. Somatic embryogenesis in *Jarilla heterophylla* (Caricaceae). In Plant Cell Tissue and Organ Culture, 2012, vol. 109, no. 1, p. 33., WOS

[1.1] WANG, Qiannan - HUANG, Shanjin. Visualization of Microtubule Organization and Dynamics in Living *Arabidopsis* Embryonic Cells. In MOLECULAR PLANT. ISSN 1674-2052, 2014, vol. 7, no. 8, pp. 1397., WOS

[1.1] WONG, Sher Ming - SALIM, Nursafina - HARIKRISHNA, Jennifer Ann - KHALID, Norzulaani. Highly efficient plant regeneration via somatic

embryogenesis from cell suspension cultures of Boesenbergia rotunda. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT. ISSN 1054-5476, 2013, vol. 49, no. 6, pp. 665., WOS  
[1.1] ZHANG, Yufan - CLEMENS, Adam - MAXIMOVA, Siela N. - GUILTINAN, Mark J. The Theobroma cacao B3 domain transcription factor TcLEC2 plays a duel role in control of embryo development and maturation. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2014, vol. 14, no., pp., WOS  
[3.1] Vacca Molina, Maritza - Cristina Bonomo, María Luisa - Avilés, Zulma - Díaz, Lucía. Inducción de callos embriogénicos y formación de proembriones somáticos en Pterogyne nitens Tull "tipa colorada" Embriogenic calli induction and somatic proembryo formation in Pterogyne nitens Tull. In Revista Colombiana de Biotecnología, 2014, vol. 16, no. 2, p. 194-203.

ADCA155 ŠAMAJ, Jozef - BOBÁK, Milan - KUBOŠNÍKOVÁ, D. - KRIŠTÍN, J. - KOLÁŘIK, E. - OVEČKA, Miroslav - BLEHOVÁ, Alžbeta. Bundle sheath cells are responsible for direct root regeneration from leaf explants of Helianthus occidentalis L. In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*. - Jena : Urban & Fischer : Elsevier, 1999, vol. 154, no. 1, p. 89-94. (1.195 - IF1998). ISSN 0176-1617.

Ohlasy:

- [1.1] GANTAIT, Saikat - SINNIAH, Uma Rani. In vitro direct rhizogenesis from Gerbera jamesonii Bolus leaf. In Acta Physiologiae Plantarum, 2014, vol. 36, no. 11, pp. 3081. ISSN 0137-5881., WOS  
[1.1] PILARSKA, Maria - POPIELARKA-KONIECZNA, Marzena - SLESAK, Halina - KOZIERADZKA-KISZKURNO, Małgorzata - GORALSKI, Grzegorz - KONIECZNY, Robert - BOHDANOWICZ, Jerzy - KUTA, Elzbieta. Extracellular matrix surface network is associated with non-morphogenic calli of Helianthus tuberosus cv. Albik produced from various explants. In Acta Societatis Botanicorum Poloniae, 2014, vol. 83, no. 1, pp. 67. ISSN 0001-6977., WOS

ADCA156 ŠAMAJ, Jozef - BALUŠKA, František - VOLKMANN, Dieter. Cell-specific expression of two arabinogalactan-protein epitopes recognized by monoclonal antibodies JIM8 and JIM13 in maize roots. In *Protoplasma*, 1998, vol. 204, no. 1-2, p. 1-12. ISSN 0033-183X.

Ohlasy:

- [1.1] GOELLNER, Esther Marie - GRAMANN, Jean Christian - CLASSEN, Birgit. Antibodies against Yariv's Reagent for Immunolocalization of Arabinogalactan-Proteins in Aerial Parts of Echinacea purpurea. In *Planta Medica*, 2013, vol. 79, no. 2, pp. 175. ISSN 0032-0943., WOS  
[1.1] CHUDZIK, Barbara - SZCZUKA, Ewa - ZARZYKA, Barbara - LESZCZUK, Agata. DISTRIBUTION OF ARABINOGALACTAN PROTEINS DURING MICROSPOROGENESIS IN THE ANTER OF BELLIS PERENNIS L. (ASTERACEAE). In *Acta Biologica Cracoviensis series Botanica*, 2014, vol. 56, no. 2, pp. 49. ISSN 0001-5296., WOS  
[1.1] PAN, Xiao - YANG, Xiao - LIN, Guimei - ZOU, Ru - CHEN, Houbin - SAMAJ, Jozef - XU, Chunxiang. Ultrastructural changes and the distribution of arabinogalactan proteins during somatic embryogenesis of banana (*Musa* spp. AAA cv. 'Yueyoukang 1'). In *PHYSIOLOGIA PLANTARUM*, 2011, vol. 142, no. 4, 372-389., WOS

ADCA157 ŠAMAJ, Jozef - PETERS, M. - VOLKMAN, Dieter - BALUŠKA, František. Effects of myosin ATPase inhibitor 2,3-butanedione 2 monoxime on distributions of myosins, F-actin, microtubules, and cortical endoplasmic reticulum in maize root apices. In *Plant and Cell Physiology : international journal for Physiology, Biochemistry, Molecular Biology*. - Oxford : Japanese Society of Plant Physiologists : Oxford University Press, 2000, vol. 41, no. 5, p. 571-582. (2000 - Current Contents). ISSN 0032-0781.

Ohlasy:

- [1.1] BOND, Lisa M. - TUMBARELLO, David A. - KENDRICK-JONES, John - BUSS, Folma. Small-molecule inhibitors of myosin proteins. In *Future Medicinal Chemistry*, 2013, vol. 5, no. 1, pp. 41. ISSN 1756-8919., WOS
- [1.1] CAI, Chao - HENTY-RIDILLA, Jessica L. - SZYMANSKI, Daniel B. - STAIGER, Christopher J. *Arabidopsis Myosin XI: A Motor Rules the Tracks*. In *Plant Physiology*, 2014, vol. 166, no. 3, pp. 1359. ISSN 0032-0889., WOS
- [1.1] WANG, Guifeng - WANG, Fang - WANG, Gang - WANG, Fei - ZHANG, Xiaowei - ZHONG, Mingyu - ZHANG, Jin - LIN, Dianbin - TANG, Yuanping - XU, Zhengkai - SONG, Rentao. *Opaque1 Encodes a Myosin XI Motor Protein That Is Required for Endoplasmic Reticulum Motility and Protein Body Formation in Maize Endosperm*. In *Plant Cell*, 2012, vol. 24, no. 8, p. 3447., WOS

ADCA158 ŠAMAJ, Jozef - BALUŠKA, František - VOIGT, Boris - SCHLICHT, Marcus - VOLKMAN, Dieter - MENZEL, Diedrik. Endocytosis, actin cytoskeleton, and signaling. In *Plant Physiology*, 2004, vol. 135, no. 3, p. 1150-1161. (5.634 - IF2003). (2004 - Current Contents). ISSN 0032-0889.

Ohlasy:

- [1.1] AKEMATSU, Takahiko - FUKUDA, Yasuhiro - ATTIQ, Rizwan - PEARLMAN, Ronald E. Role of class III phosphatidylinositol 3-kinase during programmed nuclear death of *Tetrahymena thermophila*. In *AUTOPHAGY*. ISSN 1554-8627, 2014, vol. 10, no. 2, pp. 209., WOS
- [1.1] BACALOCOSTANTIS, Irene - MANE, Viraj P. - GOODLEY, Addison S. - BENTLEY, William E. - MURO, Silvia - KOFINAS, Peter. Investigating polymer thiolation in gene delivery. In *JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION*. ISSN 0920-5063, 2013, vol. 24, no. 8, pp. 912., WOS
- [1.1] BALSA, Gary A. - MAYERS, Jonathan R. - BEDNAREK, Sebastian Y. Budding and braking news about clathrin-mediated endocytosis. In *CURRENT OPINION IN PLANT BIOLOGY*. ISSN 1369-5266, 2013, vol. 16, no. 6, pp. 718., WOS
- [1.1] BASHLINE, Logan - LEI, Lei - LI, Shundai - GU, Ying. Cell Wall, Cytoskeleton, and Cell Expansion in Higher Plants. In *MOLECULAR PLANT*. ISSN 1674-2052, 2014, vol. 7, no. 4, pp. 586., WOS
- [1.1] BASHLINE, Logan - LI, Shundai - ANDERSON, Charles T. - LEI, Lei - GU, Ying. The Endocytosis of Cellulose Synthase in *Arabidopsis* Is Dependent on mu 2, a Clathrin-Mediated Endocytosis Adapton. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2013, vol. 163, no. 1, pp. 150., WOS
- [1.1] BLACHUTZIK, Joerg O. - DEMIR, Fatih - KREUZER, Ines - HEDRICH, Rainer - HARMS, Gregory S. Methods of staining and visualization of sphingolipid enriched and non-enriched plasma membrane regions of

- Arabidopsis thaliana with fluorescent dyes and lipid analogues. In PLANT METHODS. ISSN 1746-4811, 2012, vol. 8, no., pp., WOS
- [1.1] DAY, Brad - HENTY, Jessica L. - PORTER, Katie J. - STAIGER, Christopher J. The Pathogen-Actin Connection: A Platform for Defense Signaling in Plants. In ANNUAL REVIEW OF PHYTOPATHOLOGY, VOL 49, 2011, vol.49, no., 483-506., WOS
- [1.1] GUO, Feng - MCCUBBIN, Andrew G. The pollen-specific R-SNARE/longin PiVAMP726 mediates fusion of endo- and exocytic compartments in pollen tube tip growth. In JOURNAL OF EXPERIMENTAL BOTANY, 2012, vol.63, no.8, 3083., WOS
- [1.1] HUSEN, Azamal - SIDDIQI, Khwaja Salahuddin. Carbon and fullerene nanomaterials in plant system. In JOURNAL OF NANOBIOTECHNOLOGY. ISSN 1477-3155, 2014, vol. 12, no., pp., WOS
- [1.1] CHEN, Xu - IRANI, Niloufer G. - FRIML, Jiri. Clathrin-mediated endocytosis: the gateway into plant cells. In CURRENT OPINION IN PLANT BIOLOGY, 2011, vol.14, no.6, 674-682., WOS
- [1.1] KANG, Yongsung - JELENSKA, Joanna - CECCHINI, Nicolas M. - LI, Yujie - LEE, Min Woo - KOVAR, David R. - GREENBERG, Jean T. HopW1 from Pseudomonas syringae Disrupts the Actin Cytoskeleton to Promote Virulence in Arabidopsis. In PLOS PATHOGENS. ISSN 1553-7366, 2014, vol. 10, no. 6, pp., WOS
- [1.1] KE, Pu Chun - LAMM, Monica H. A biophysical perspective of understanding nanoparticles at large. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 2011, vol.13, no.16, 7273-7283., WOS
- [1.1] KHANDAKAR, Jebunnahar - HARAGUCHI, Izumi - YAMAGUCHI, Kenichi - KITAMURA, Yoshie. A small-scale proteomic approach reveals a survival strategy, including a reduction in alkaloid biosynthesis, in Hyoscyamus albus roots subjected to iron deficiency. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] KRTKOVA, Jana - HAVELKOVÁ, Lenka - KREPELOVÁ, Anna - FISER, Radovan - VOSOLSOBE, Stanislav - NOVOTNÁ, Zuzana - MARTINEC, Jan - SCHWARZEROVÁ, Katerina. Loss of membrane fluidity and endocytosis inhibition are involved in rapid aluminum-induced root growth cessation in Arabidopsis thaliana. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2012, vol. 60, no., pp. 88., WOS
- [1.1] LEE, Ok Ran - CHO, Misuk - GEISLER, M. Trafficking of ABCB-type Auxin Transporters. In PLANT ABC TRANSPORTERS. ISSN 1867-9048, 2014, vol., no., pp. 287., WOS
- [1.1] LI, Kefeng - PIDATALA, Venkataramana R. - SHAIK, Rafi - DATTA, Rupali - RAMAKRISHNA, Wusirika. Integrated Metabolomic and Proteomic Approaches Dissect the Effect of Metal-Resistant Bacteria on Maize Biomass and Copper Uptake. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2014, vol. 48, no. 2, pp. 1184., WOS
- [1.1] LOMBARDO, M. C. - LAMATTINA, L. Nitric oxide is essential for vesicle formation and trafficking in Arabidopsis root hairgrowth. In JOURNAL OF EXPERIMENTAL BOTANY, 2012, vol.63, no.13, 4875., WOS
- [1.1] MEHRBOD, Parvaneh - HAIR-BEJO, Mohd - IBRAHIM, Tengku Azmi Tengku - OMAR, Abdul Rahman - EL ZOWALATY, Mohamed - AJDARI, Zahra - IDERIS, Aini. Simvastatin modulates cellular components in influenza A virus-infected cells. In INTERNATIONAL JOURNAL OF

MOLECULAR MEDICINE. ISSN 1107-3756, 2014, vol. 34, no. 1, pp. 61., WOS

- [1.1] MIART, Fabien - DESPREZ, Thierry - BIOT, Eric - MORIN, Halima - BELCRAM, Katia - HOEFTÉ, Herman - GONNEAU, Martine - VERNHETTES, Samantha. Spatio-temporal analysis of cellulose synthesis during cell plate formation in *Arabidopsis*. In PLANT JOURNAL. ISSN 0960-7412, 2014, vol. 77, no. 1, pp. 71., WOS
- [1.1] MIRALLES, Pola - CHURCH, Tamara L. - HARRIS, Andrew T. Toxicity, Uptake, and Translocation of Engineered Nanomaterials in Vascular plants. In ENVIRONMENTAL SCIENCE & TECHNOLOGY, 2012, vol.46, no.17, 9224., WOS
- [1.1] MOLESINI, Barbara - PANDOLFINI, Tiziana - PII, Youry - KORTE, Arthur - SPENA, Angelo. *Arabidopsis thaliana* AUCSIA-1 Regulates Auxin Biology and Physically Interacts with a Kinesin-Related Protein. In PLOS ONE, 2012, vol.7, no.7., WOS
- [1.1] MOOREN, Olivia L. - GALLETTA, Brian J. - COOPER, John A. - KORNBERG, RD. Roles for Actin Assembly in Endocytosis. In ANNUAL REVIEW OF BIOCHEMISTRY, VOL 81, 2012, vol.81, no., 661., WOS
- [1.1] NOGALSKI, Maciej T. - CHAN, Gary C. T. - STEVENSON, Emily V. - COLLINS-MCMILLEN, Donna K. - YUROCHKO, Andrew D. The HCMV gH/gL/UL128-131 Complex Triggers the Specific Cellular Activation Required for Efficient Viral Internalization into Target Monocytes. In PLOS PATHOGENS. ISSN 1553-7374, 2013, vol. 9, no. 7, pp., WOS
- [1.1] PEREZ-HENRIQUEZ, Patricio - RAIKHEL, Natasha V. - NORAMBUENA, Lorena. Endocytic Trafficking towards the Vacuole Plays a Key Role in the Auxin Receptor SCFTIR-Independent Mechanism of Lateral Root Formation in *A. thaliana*. In MOLECULAR PLANT. ISSN 1674-2052, 2012, vol. 5, no. 6, pp. 1195., WOS
- [1.1] RISHMAWI, Louai - SUN, Hequan - SCHNEEBERGER, Korbinian - HUELSKAMP, Martin - SCHRADER, Andrea. Rapid Identification of a Natural Knockout Allele of ARMADILLO REPEAT-CONTAINING KINESIN1 That Causes Root Hair Branching by Mapping-By-Sequencing. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 166, no. 3, pp. 1280., WOS
- [1.1] SATO-IZAWA, Kanna - NAKABA, Satoshi - TAMURA, Katsunori - YAMAGISHI, Yusuke - NAKANO, Yoshimi - NISHIKUBO, Nobuyuki - KAWAI, Shinya - KAJITA, Shinya - ASHIKARI, Motoyuki - FUNADA, Ryo - KATAYAMA, Yoshihiro - KITANO, Hidemi. DWARF50 (D50), a rice (*Oryza sativa* L.) gene encoding inositol polyphosphate 5-phosphatase, is required for proper development of intercalary meristem. In PLANT CELL AND ENVIRONMENT, 2012, vol.35, no.11, 2031., WOS
- [1.1] SEABRA, Amedea B. - RAI, Mahendra - DURAN, Nelson. Nano carriers for nitric oxide delivery and its potential applications in plant physiological process: A mini review. In JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0971-7811, 2014, vol. 23, no. 1, pp. 1., WOS
- [1.1] SUN, Tiantian - LI, Shanwei - REN, Haiyun. Profilin as a regulator of the membrane-actin cytoskeleton interface in plant cells. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] URBINA, Daniela - PEREZ-HENRIQUEZ, Patricio - NORAMBUENA, Lorena - HICKS, GR - ROBERT, S. The Use of Multidrug

Approach to Uncover New Players of the Endomembrane System Trafficking Machinery. In PLANT CHEMICAL GENOMICS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2014, vol. 1056, no., pp. 131., WOS

ADCA159 ŠAMAJ, Jozef - VOLKMANN, Dieter - BALUŠKA, František - BOBÁK, Milan. Extracellular matrix surface network of embryogenic units of friable maize callus contains arabinogalactan-proteins recognized by monoclonal antibody JIM4. In *Plant Cell Reports*. - Wien : Springer Verlag, 1998, vol. 18, no. 5, p. 369-374. ISSN 0721-7714.

Ohlasy:

- [1.1] BEVITORI, R. - POPIELARSKA-KONIECZNA, M. - DOS SANTOS, E. M. - GROSSI-DE-SA, M. F. - PETROFEZA, S. Morpho-anatomical characterization of mature embryo-derived callus of rice (*Oryza sativa L.*) suitable for transformation. In PROTOPLASMA. ISSN 0033-183X, 2014, vol. 251, no. 3, pp. 545., WOS
- [1.1] CAPATAZ-TAFUR, Jacqueline - TREJO-TAPIA, Gabriela - RODRIGUEZ-MONROY, Mario - SEPULVEDA-JIMENEZ, Gabriela. Arabinogalactan proteins are involved in cell aggregation of cell suspension cultures of *Beta vulgaris L.* In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.106, no.1, 169-177., WOS
- [1.1] JOYCE, Blake L. - EDA, Shigetoshi - DUNLAP, John - STEWART, C. Neal. Morphology and ploidy level determination of *Pteris vittata* callus during induction and regeneration. In BMC Biotechnology, 2014, vol. 14, ISSN 1472-6750., WOS
- [1.1] LAI, K. S. - YUSOFF, K. - MAZIAH, M. Extracellular matrix as the early structural marker for *Centella asiatica* embryogenic tissues. In BIOLOGIA PLANTARUM, 2011, vol.55, no.3, 549-553., WOS
- [1.1] LAMPORI, Derek T. A. - VARNAI, Peter - SEAL, Charlotte E. Back to the future with the AGP-Ca<sup>2+</sup> flux capacitor. In Annals of Botany, 2014, vol. 114, no. 6, pp. 1069. ISSN 0305-7364., WOS
- [1.1] MAZAREI, Mitra - AL-AHMAD, Hani - RUDIS, Mary R. - JOYCE, Blake L. - STEWART, C. Neal. Switchgrass (*Panicum virgatum L.*) cell suspension cultures: Establishment, characterization, and application. In PLANT SCIENCE, 2011, vol.181, no.6, 712-715., WOS
- [1.1] PALANYANDY, Sharminila Rengeswari - SURANTHRAN, Periasamy - GANTAIT, Saikat - SINNIAH, Uma Rani - SUBRAMANIAM, Sreeramanan - AZIZ, Maheran Abdul - ALWEE, Sharifah Shahrul Rabiah Syed - ROOWI, Siti Habsah. In vitro developmental study of oil palm (*Elaeis guineensis* Jacq.) polyembryoids from cell suspension using scanning electron microscopy. In Acta Physiologiae Plantarum, 2013, vol. 35, no. 5, pp. 1727. ISSN 0137-5881., WOS
- [1.1] PILARSKA, Maria - KNOX, J. Paul - KONIECZNY, Robert. Arabinogalactan-protein and pectin epitopes in relation to an extracellular matrix surface network and somatic embryogenesis and callogenesis in *Trifolium nigrescens* Viv. In Plant Cell Tissue and Organ Culture, 2013, vol. 115, no. 1, pp. 35. ISSN 0167-6857., WOS
- [1.1] PILARSKA, Maria - POPIELARSKA-KONIECZNA, Marzena - SLESAK, Halina - KOZIERADZKA-KISZKURNO, Małgorzata - GORALSKI, Grzegorz - KONIECZNY, Robert - BOHDANOWICZ, Jerzy - KUTA, Elzbieta. Extracellular matrix surface network is associated with non-morphogenic calli of *Helianthus tuberosus* cv. Albik produced from various explants. In Acta

Societas Botanicorum Poloniae, 2014, vol. 83, no. 1, pp. 67. ISSN 0001-6977., WOS

[1.1] PORTILLO, L. - OLMEDILLA, A. - SANTACRUZ-RUVALCABA, F. Cellular and molecular changes associated with somatic embryogenesis induction in *Agave tequilana*. In *Protoplasma*, 2012, vol. 249, no. 4, p. 1101., WOS

[1.1] STEINMACHER, Douglas A. - SAARE-SURMINSKI, Katja - LIEBEREI, Reinhard. Arabinogalactan proteins and the extracellular matrix surface network during peach palm somatic embryogenesis. In *Physiologia Plantarum*, 2012, vol. 146, no. 3, p. 336., WOS

[1.1] YUSOFF, Nur Fatihah Mohd - ALWEE, Sharifah Shahrul Rabiah Syed - ABDULLAH, Meilina Ong - HO CHAI-LING - NAMASIVAYAM, Parameswari. A TIME COURSE ANATOMICAL ANALYSIS OF CALLOGENESIS FROM YOUNG LEAF EXPLANTS OF OIL PALM (*Elaeis guineensis* Jacq.). In *Journal of Oil Palm Research*, 2012, vol. 24, p. 1330., WOS

ADCA160 ŠAMAJ, Jozef - BALUŠKA, František - HIRT, Heribert. From signal to cell polarity: mitogen-activated protein kinases as sensors and effectors of cytoskeleton. In *Journal of experimental botany*. - Oxford : Oxford University Press, 2004, vol. 55, no. 395, p. 189-198. ISSN 0022-0957.

Ohlasy:

[1.1] DAI, Zhongquan - TAN, Yingjun - YANG, Fen - QU, Lina - ZHANG, Hongyu - WAN, Yumin - LI, Yinghui. Altered Actin Dynamics and Functions of Osteoblast-Like Cells in Parabolic Flight may Involve ERK1/2. In *MICROGRAVITY SCIENCE AND TECHNOLOGY*, 2011, vol.23, no.1, 19-27., WOS

[1.1] MUELLER, Sabine. Universal rules for division plane selection in plants. In *Protoplasma*, 2012, vol. 249, no. 2, p. 239., WOS

[1.1] WANG, Hui-Li - CHANG, Zhong-Le - LI, Kun-Liang - LIAN, Hua-Yu - HAN, Dong - CUI, Wei - JIAO, Guang-Zhong - WU, Yan-Guang - LUO, Ming-Jiu - TAN, Jing-He. Caffeine Can Be Used for Oocyte Enucleation. In *CELLULAR REPROGRAMMING*, 2011, vol.13, no.3, 225-232., WOS

[1.1] XU, J. N. - LIU, X. - WANG, H. - HU, C. M. - LUO, Q. H. - ZHOU, Q. Q. Effects of destrin pathway mutations on the gene expression profile (Retracted article. See vol. 13, pg. 10599, 2014). In *Genetics and Molecular Research*, 2014, vol. 13, no. 2, pp. 2628. ISSN 1676-5680., WOS

ADCA161 ŠAMAJ, Jozef - ENSIKAT, H.J. - KNOX, J.P. - BARTHLOTT, W. - VOLKMANN, Dieter - BALUŠKA, František. Immunogold-localization of plant surface arabinogalactan-proteins using glycerol liquid substitution and scanning electron microscopy. In *Journal of Microscopy*, 1999, vol. 193, no. 2, p. 150-157. (1.347 - IF1998). (1999 - Current Contents). ISSN 0022-2720.

Ohlasy:

[1.1] LAI, K. S. - YUSOFF, K. - MAZIAH, M. Extracellular matrix as the early structural marker for *Centella asiatica* embryogenic tissues. In *BIOLOGIA PLANTARUM*, 2011, vol.55, no.3, 549-553., WOS

[1.1] LIU, Wenbin - LI, Chenzhao - ZHANG, Qi - LEI, Zhixin - HOU, Yanqi - DAI, Fangyin - LU, Cheng. Sample Preparation to Observe the Straight and Flat Posture of Silkworm Embryo under Scanning Electron Microscopy via Glycerol Substitution Method. In *MICROSCOPY AND MICROANALYSIS*. ISSN

1431-9276, 2014, vol. 20, no. 3, pp. 964., WOS

[1.1] LOPEZ, Renee A. - RENZAGLIA, Karen S. MULTIFLAGELLATED SPERM CELLS OF CERATOPTERIS RICHARDII ARE BATHED IN ARABINOGALACTAN PROTEINS THROUGHOUT DEVELOPMENT. In AMERICAN JOURNAL OF BOTANY. ISSN 0002-9122, 2014, vol. 101, no. 12, pp. 2052., WOS

ADCA162 ŠAMAJ, Jozef - ŠAMAJOVÁ, Ol'ga - PETERS, M. - BALUŠKA, František - LICHTSCHEIDL, Irene - KNOX, J.P. - VOLKMANN, Dieter. Immunolocalization of LM2 arabinogalactan-protein epitope associated with endomembranes of plant cells. In *Protoplasma*. - Wien : Springer Verlag, 2000, vol. 212, no. 3-4, p. 186-196. (2000 - Current Contents). ISSN 0033-183X.

Ohlasy:

[1.1] CANNESAN, Marc Antoine - DURAND, Caroline - BUREL, Carole - GANGNEUX, Christophe - LEROUGE, Patrice - ISHII, Tadashi - LAVAL, Karine - FOLLET-GUEYE, Marie-Laure - DRIOUICH, Azeddine - VICRE-GIBOIN, Maite. Effect of Arabinogalactan Proteins from the Root Caps of Pea and Brassica napus on Aphanomyces euteiches Zoospore Chemotaxis and Germination. In *Plant Physiology*, 2012, vol. 159, no. 4, p. 1658., WOS

[1.1] COSTA, M. - NOBRE, M.S. - BECKER, J.D. - MASIERO, S. - AMORIM, M.I. - PEREIRA, L.G. - COIMBRA, S. Expression-based and co-localization detection of arabinogalactan protein 6 and arabinogalactan protein 11 interactors in Arabidopsis pollen and pollen tubes. In *BMC Plant Biology*, 2013, vol. 13. ISSN 1471-2229., WOS

[1.1] EL-TANTAWY, Ahmed-Abdalla - SOLIS, Maria-Teresa - DA COSTA, Mario L. - COIMBRA, Silvia - RISUENO, Maria-Carmen - TESTILLANO, Pilar S. Arabinogalactan protein profiles and distribution patterns during microspore embryogenesis and pollen development in Brassica napus. In *Plant Reproduction*, 2013, vol. 26, no. 3, pp. 231. ISSN 2194-7953., WOS

[1.1] FORMIGA, Anete Teixeira - DE OLIVEIRA, Denis Coelho - FERREIRA, Bruno Garcia - MAGALHAES, Thiago Alves - DE CASTRO, Ariane Chagas - WILSON FERNANDES, G. - DOS SANTOS ISAIAS, Rosy Mary. The role of pectic composition of cell walls in the determination of the new shape-functional design in galls of Baccharis reticularia (Asteraceae). In *Protoplasma*, 2013, vol. 250, no. 4, pp. 899. ISSN 0033-183X., WOS

[1.1] CHUDZIK, Barbara - SZCZUKA, Ewa - ZARZYKA, Barbara - LESZCZUK, Agata. DISTRIBUTION OF ARABINOGALACTAN PROTEINS DURING MICROSPOROGENESIS IN THE ANTER OF BELLIS PERENNIS L. (ASTERACEAE). In *Acta Biologica Cracoviensis Series Botanica*, 2014, vol. 56, no. 2, pp. 49. ISSN 0001-5296., WOS

[1.1] RAFINSKA, Katarzyna - BEDNARSKA, Elzbieta. Localisation pattern of homogalacturonan and arabinogalactan proteins in developing ovules of the gymnosperm plant Larix decidua Mill. In *SEXUAL PLANT REPRODUCTION*, 2011, vol.24, no.1, 75-87., WOS

[1.1] STEINMACHER, Douglas A. - SAARE-SURMINSKI, Katja - LIEBEREI, Reinhard. Arabinogalactan proteins and the extracellular matrix surface network during peach palm somatic embryogenesis. In *Physiologia Plantarum*, 2012, vol. 146, no. 3, p. 336., WOS

ADCA163 ŠAMAJ, Jozef - OVEČKA, Miroslav - HLAVAČKA, Andrej - LECOURIEUX, Fatma - MESKIENE, Irute - LICHTSCHEIDL, Irene - LENART, Peter - SALAJ, Ján - VOLKMANN, Dieter - BOGRE, Laszlo - BALUŠKA, František. Involvement of the mitogen-activated protein kinase SIMK in regulation of root hair tip growth. In *EMBO journal : European Molecular Biology Organization*, 2002, vol. 21, no. 13, p. 3296-3306. (12.459 - IF2001). ISSN 0261-4189.

Ohlasy:

- [1.1] HAO, Xinyuan - LI, Hongli - HUA, Yuan - YU, Ke - WALTER, Monika - QI, Tuo - ZHANG, Bing - MA, Qing. Actin dynamic polymerization is required for the expression of nonhost resistance in pepper against *Blumeria graminis* f. sp *tritici*. In *Physiological and Molecular Plant Pathology*, 2014, vol. 86, no., pp. 64. ISSN 0885-5765., WOS
- [1.1] HIGAKI, T. - KURUSU, T. - HASEZAWA, S. - KUCHITSU, K. Dynamic intracellular reorganization of cytoskeletons and the vacuole in defense responses and hypersensitive cell death in plants. In *Journal of Plant Research*, 2011, vol. 124, no. 3, p. 315-324. ISSN 0918-9440., WOS
- [1.1] IM, Jong Hee - LEE, Hyoungseok - KIM, Jitae - KIM, Ho Bang - AN, Chung Sun. Soybean MAPK, GMK1 Is dually regulated by phosphatidic acid and hydrogen peroxide and translocated to nucleus during salt stress. In *Molecules and Cells*, 2012, vol. 34, no. 3, p. 271., WOS
- [1.1] LI, S.T. - FRANKLIN-TONG, V.E. Modulating and Monitoring MAPK Activity During Programmed Cell Death in Pollen. In *Plant Kinases: Methods and Protocols*, 2011, vol. 779, p. 165-183. ISSN 1064-3745., WOS
- [1.1] LOPEZ-BUCIO, J. S. - DUBROVSKY, J. G. - RAYA-GONZALEZ, J. - UGARTECHEA-CHIRINO, Y. - LOPEZ-BUCIO, J. - DE LUNA-VALDEZ, L. A. - RAMOS-VEGA, M. - LEON, P. - GUEVARA-GARCIA, A. A. *Arabidopsis thaliana* mitogen-activated protein kinase 6 is involved in seed formation and modulation of primary and lateral root development. In *Journal of Experimental Botany*, 2014, vol. 65, no. 1, pp. 169. ISSN 0022-0957., WOS
- [1.1] NAGASHIMA, S. - FUKUDA, T. - KUBOTA, Y. - SUGIURA, A. - NAKAO, M. - INATOME, R. - YANAGI, S. CRMP5-associated GTPase (CRAG) Protein Protects Neuronal Cells against Cytotoxicity of Expanded Polyglutamine Protein Partially via c-Fos-dependent Activator Protein-1 Activation. In *Journal of Biological Chemistry*, 2011, vol. 286, no. 39, p. 33879-33889. ISSN 0021-9258., WOS
- [1.1] RANF, Stefanie - ESCHEN-LIPPOLD, Lennart - FRHLICH, Katja - WESTPHAL, Lore - SCHEEL, Dierk - LEE, Justin. Microbe-associated molecular pattern-induced calcium signaling requires the receptor-like cytoplasmic kinases, PBL1 and BIK1. In *BMC Plant Biology*, 2014, vol. 14, ISSN 1471-2229., WOS
- [1.1] SHIN, L.J. - HUANG, H.E. - CHANG, H. - LIN, Y.H. - FENG, T.Y. - GER, M.J. Ectopic ferredoxin I protein promotes root hair growth through induction of reactive oxygen species in *Arabidopsis thaliana*. In *Journal of Plant Physiology*, 2011, vol. 168, no. 5, p. 434-440. ISSN 0176-1617., WOS
- [1.1] SINGH, Raksha - LEE, Mi-Ok - LEE, Jae-Eun - CHOI, Jihyun - PARK, Ji Hun - KIM, Eun Hye - YOO, Ran Hee - CHO, Jung-II - JEON, Jong-Seong - RAKWAL, Randeep - AGRAWAL, Ganesh Kumar - MOON, Jae Sun - JWA, Nam-Soo. Rice Mitogen-Activated Protein Kinase Interactome Analysis Using the Yeast Two-Hybrid System. In *Plant Physiology*, 2012, vol.

160, no. 1, pp. 477. ISSN 0032-0889., WOS

[1.1] TOMINAGA-WADA, R. - ISHIDA, T. - WADA, T. New insights into the mechanism of development of *Arabidopsis* root hairs and trichomes. In International Review of Cell and Molecular Biology, vol. 286, 2011, p. 67-106. ISSN 1937-6448., WOS

[1.1] TRAN HONG NHA NGUYEN - BRECHENMACHER, Laurent - ALDRICH, Joshua T. - CLAUSS, Therese R. - GRITSENKO, Marina A. - HIXSON, Kim K. - LIBAULT, Marc - TANAKA, Kiwamu - YANG, Feng - YAO, Qiuming - PASA-TOLIC, Ljiljana - XU, Dong - NGUYEN, Henry T. - STACEY, Gary. Quantitative Phosphoproteomic Analysis of Soybean Root Hairs Inoculated with *Bradyrhizobium japonicum*. In Molecular & Cellular Proteomics, 2012, vol. 11, no. 11, pp. 1140. ISSN 1535-9476., WOS

[1.1] VITHA, S. - OSTERYOUNG, K.W. Immunofluorescence Microscopy for Localization of *Arabidopsis* Chloroplast Proteins. In Chloroplast Research in *Arabidopsis*: Methods and Protocols, vol I., 2011, vol. 774, p. 33-58. ISSN 1064-3745., WOS

[1.1] WANG, Jue - QIAN, Dong - FAN, Tingting - JIA, Honglei - AN, Lizhe - XIANG, Yun. *Arabidopsis* actin capping protein (AtCP) subunits have different expression patterns, and downregulation of AtCPB confers increased thermotolerance of *Arabidopsis* after heat shock stress. In Plant Science, 2012, vol. 193, no., pp. 110. ISSN 0168-9452., WOS

[1.1] ZHAO, Ruirui - XIE, Handing - LV, Shengnan - ZHENG, Yang - YU, Mengmeng - SHEN, Lin - SHENG, Jiping. LeMAPK4 participated in cold-induced ethylene production in tomato fruit. In Journal of the Science of Food and Agriculture, 2013, vol. 93, no. 5, pp. 1003. ISSN 0022-5142., WOS

[1.1] ZHAO, Ruirui - XIE, Handing - LV, Shengnan - ZHENG, Yang - YU, Mengmeng - SHEN, Lin - SHENG, Jiping. LeMAPK4 participated in cold-induced ethylene production in tomato fruit. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2013, vol. 93, no. 5, pp. 1003., WOS

ADCA164 ŠAMAJ, Jozef - OVEČKA, Miroslav - HLAVĀČKA, Andrej - LECOURIEUX, Fatma - MESKIENE, Irute - LICHTSCHEIDL, Irene - LENART, Peter - SALAJ, Ján - VOLKMANN, Dieter - BOGRE, Laszlo - BALUŠKA, František - HIRT, Heribert. Involvement of MAP kinase SIMK and actin cytoskeleton in the regulation of root hair tip growth. In *Cell Biology International*. - London : Academic Press : Elsevier Science, 2003, vol. 27, no. 3, p. 257-259. (1.017 - IF2002). ISSN 1065-6995.

Ohlasy:

[1.1] DAY, B. - HENTY, J.L. - PORTER, K.J. - STAIGER, C.J. The Pathogen-Actin Connection: A Platform for Defense Signaling in Plants. In Annual Review of Phytopathology, vol. 49, 2011, p. 483-506. ISSN 0066-4286., WOS

ADCA165 ŠAMAJ, Jozef - BALUŠKA, František - MENZEL, Diedrik. New signalling molecules regulating root hair tip growth. In *Trends in Plant Science*, 2004, vol. 9, no. 5, p. 217-220. (13.405 - IF2003). (2004 - Current Contents). ISSN 1360-1385.

Ohlasy:

[1.1] DAY, Brad - HENTY, Jessica L. - PORTER, Katie J. - STAIGER, Christopher J. The Pathogen-Actin Connection: A Platform for Defense

Signaling in Plants. In ANNUAL REVIEW OF PHYTOPATHOLOGY, VOL 49, 2011, vol.49, no., 483-506., WOS

[1.1] HUANG, Guo-Qiang - LI, En - GE, Fu-Rong - LI, Sha - WANG, Qun - ZHANG, Chun-Qing - ZHANG, Yan. Arabidopsis RopGEF4 and RopGEF10 are important for FERONIA-mediated developmental but not environmental regulation of root hair growth. In NEW PHYTOLOGIST. ISSN 0028-646X, 2013, vol. 200, no. 4, pp. 1089., WOS

[1.1] JIMENEZ-LOPEZ, Jose C. - WANG, Xia - KOTCHONI, Simeon O. - HUANG, Shanjin - SZYMANSKI, Daniel B. - STAIGER, Christopher J. Heterodimeric Capping Protein from Arabidopsis Is a Membrane-Associated, Actin-Binding Protein. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 166, no. 3, pp. 1312., WOS

[1.1] LOMBARDO, M. C. - LAMATTINA, L. Nitric oxide is essential for vesicle formation and trafficking in Arabidopsis root hairgrowth. In JOURNAL OF EXPERIMENTAL BOTANY, 2012, vol.63, no.13, 4875., WOS

[1.1] TOMINAGA-WADA, Rumi - ISHIDA, Tetsuya - WADA, Takuji. NEW INSIGHTS INTO THE MECHANISM OF DEVELOPMENT OF ARABIDOPSIS ROOT HAIRS AND TRICHOMES. In INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY, VOL 286, 2011, vol.286, no., 67-106., WOS

ADCA166 ŠAMAJ, Jozef - BRAUN, M. - BALUŠKA, František - ENSIKAT, H.J. - TSUMURAYA, Y. - VOLKMANN, Dieter. Specific localization of arabinogalactan-protein epitopes at the surface of maize root hairs. In *Plant and Cell Physiology : international journal for physiology, biochemistry, molecular biology*, 1999, vol. 40, no. 8, p. 874-883. ISSN 0032-0781.

Ohlasy:

[1.1] GONG, S.Y. - HUANG, G.Q. - SUN, X. - LI, P. - ZHAO, L.L. - ZHANG, D.J. - LI, X.B. GhAGP31, a cotton non-classical arabinogalactan protein, is involved in response to cold stress during early seedling development. In Plant Biology, 2012, vol. 14, no. 3, p. 447., WOS

[1.1] JANIAK, Agnieszka - PIORKO, Stanislaw - MATROS, Andrea - MOCK, Hans-Peter - KWASNIEWSKI, Miroslaw - CHWIALKOWSKA, Karolina - CHMIELEWSKA, Beata - SZAREJKO, Iwona. A comparative analysis of proteins that accumulate during the initial stage of root hair development in barley root hair mutants and their parent varieties. In Journal of Applied Genetics, 2012, vol. 53, no. 4, p. 363., WOS

[1.1] LAMPORT, Derek T. A. - VARNAI, Peter - SEAL, Charlotte E. Back to the future with the AGP-Ca<sup>2+</sup> flux capacitor. In Annals of Botany, 2014, vol. 114, no. 6, pp. 1069. ISSN 0305-7364., WOS

[1.1] NGUEMA-ONA, Eric - COIMBRA, Silvia - VICRE-GIBOUI, Maite - MOLLET, Jean-Claude - DRIOUICH, Azeddine. Arabinogalactan proteins in root and pollen-tube cells: distribution and functional aspects. In Annals of Botany, 2012, vol. 110, no. 2, p. 383., WOS

[1.1] NGUEMA-ONA, Eric - VICRE-GIBOUI, Maite - CANNESAN, Marc-Antoine - DRIOUICH, Azeddine. Arabinogalactan proteins in root-microbe interactions. In Trends in Plant Science, 2013, vol. 18, no. 8, pp. 445. ISSN 1360-1385., WOS

[1.1] ROUNDS, Caleb M. - LUBECK, Eric - HEPLER, Peter K. - WINSHIP, Lawrence J. Propidium Iodide Competes with Ca<sup>2+</sup> to Label Pectin

in Pollen Tubes and *Arabidopsis* Root Hairs. In *PLANT PHYSIOLOGY*, 2011, vol.157, no.1, 175-187., WOS

ADCA167 ŠAMAJ, Jozef - READ, N. D. - VOLKMANN, Dieter - MENZEL, Diedrik - BALUŠKA, František. The endocytic network in plants. In *Trends in Plant Science*, 2005, vol. 15, no. 8, p. 425-433. (11.833 - IF2004). ISSN 1360-1385.

Ohlasy:

- [1.1] AVISAR, Dror - ABU-ABIED, Mohamad - BELAUSOV, Eduard - SADOT, Einat. Myosin XIK is a major player in cytoplasm dynamics and is regulated by two amino acids in its tail. In *Journal of Experimental Botany*, 2012, vol. 63, no. 1, p. 241., WOS
- [1.1] BAHAJI, Abdellatif - LI, Jun - MARIA SANCHEZ-LOPEZ, Angela - BAROJA-FERNANDEZ, Edurne - JOSE MUÑOZ, Francisco - OVECKA, Miroslav - ALMAGRO, Goizeder - MONTERO, Manuel - EZQUER, Ignacio - ETXEBERRIA, Ed - POZUETA-ROMERO, Javier. Starch biosynthesis, its regulation and biotechnological approaches to improve crop yields. In *Biotechnology Advances*, 2014, vol. 32, no. 1, pp. 87. ISSN 0734-9750., WOS
- [1.1] BAR, Maya - LEIBMAN, Meirav - SCHUSTER, Silvia - PITZHADZA, Hilla - AVNI, Adi. EHD1 Functions in Endosomal Recycling and Confers Salt Tolerance. In *Plos One*, 2013, vol. 8, no. 1. ISSN 1932-6203., WOS
- [1.1] BASHLINE, Logan - LI, Shundai - ANDERSON, Charles T. - LEI, Lei - GU, Ying. The Endocytosis of Cellulose Synthase in *Arabidopsis* Is Dependent on mu 2, a Clathrin-Mediated Endocytosis Adaptor. In *Plant Physiology*, ISSN 0032-0889, 2013, vol. 163, no. 1, pp. 150. ISSN 0032-0889., WOS
- [1.1] BASILE, A. - SORBO, S. - PISANI, T. - PAOLI, L. - MUNZI, S. - LOPPI, S. Bioaccumulation and ultrastructural effects of Cd, Cu, Pb and Zn in the moss *Scorpiurum circinatum* (Brid.) Fleisch & Loeske. In *Environmental Pollution*, 2012, vol. 166, p. 208., WOS
- [1.1] BASSIL, Elias - COKU, Ardiyan - BLUMWALD, Eduardo. Cellular ion homeostasis: emerging roles of intracellular NHX Na/H antiporters in plant growth and development. In *Journal of Experimental Botany*, 2012, vol. 63, no. 16, pp. 5727. ISSN 0022-0957., WOS
- [1.1] BASSIL, Elias - OHTO, Masa-aki - ESUMI, Tomoya - TAJIMA, Hiromi - ZHU, Zhu - CAGNAC, Olivier - BELMONTE, Mark - PELEG, Zvi - YAMAGUCHI, Toshio - BLUMWALD, Eduardo. The *Arabidopsis* Intracellular Na+/H+ Antiporters NHX5 and NHX6 Are Endosome Associated and Necessary for Plant Growth and Development. In *PLANT CELL*, 2011, vol.23, no.1, 224-239., WOS
- [1.1] COSTA, Mario - NOBRE, Margarida Sofia - BECKER, Joerg D. - MASIERO, Simona - AMORIM, Maria Isabel - PEREIRA, Luis Gustavo - COIMBRA, Silvia. Expression-based and co-localization detection of arabinogalactan protein 6 and arabinogalactan protein 11 interactors in *Arabidopsis* pollen and pollen tubes. In *BMC Plant Biology*, 2013, vol. 13. ISSN 1471-2229., WOS
- [1.1] FAN, Lusheng - HAO, Huaiqing - XUE, Yiqun - ZHANG, Liang - SONG, Kai - DING, Zhaojun - BOTELLA, Miguel A. - WANG, Haiyang - LIN, Jinxing. Dynamic analysis of *Arabidopsis* AP2 sigma subunit reveals a key role in clathrin-mediated endocytosis and plant development. In *Development*, 2013, vol. 140, no. 18, pp. 3826. ISSN 0950-1991., WOS
- [1.1] GLINSKA, Slawa - GABARA, Barbara. The effects of the

- anthocyanin-rich extract from red cabbage leaves on Allium cepa L. root tip cell ultrastructure. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, 2011, vol.74, no.1, 93-98., WOS
- [1.1] GOLANI, Yael - KAYE, Yuval - GILHAR, Omri - ERCETIN, Mustafa - GILLASPY, Glenda - LEVINE, Alex. Inositol Polyphosphate Phosphatidylinositol 5-Phosphatase9 (At5PTase9) Controls Plant Salt Tolerance by Regulating Endocytosis. In Molecular Plant, 2013, vol. 6, no. 6, pp. 1781. ISSN 1674-2052., WOS
- [1.1] GUO, Feng - MCCUBBIN, Andrew G. The pollen-specific R-SNARE/longin PiVAMP726 mediates fusion of endo- and exocytic compartments in pollen tube tip growth. In Journal of Experimental Botany, 2012, vol. 63, no. 8, p. 3083., WOS
- [1.1] HAO, Huaiqing - CHEN, Tong - FAN, Lusheng - LI, Ruili - WANG, Xiaohua. 2, 6-dichlorobenzonitrile Causes Multiple Effects on Pollen Tube Growth beyond Altering Cellulose Synthesis in *Pinus bungeana* Zucc. In Plos One, 2013, vol. 8, no. 10. ISSN 1932-6203., WOS
- [1.1] LICCAUSI, Francesco - PUCCIARIELLO, Chiara - PERATA, Pierdomenico. New Role for an Old Rule: N-end Rule-Mediated Degradation of Ethylene Responsive Factor Proteins Governs Low Oxygen Response in Plants. In Journal of Integrative Plant Biology, 2013, vol. 55, no. 1, pp. 31. ISSN 1672-9072., WOS
- [1.1] OKIE, Jordan G. General Models for the Spectra of Surface Area Scaling Strategies of Cells and Organisms: Fractality, Geometric Dissimilitude, and Internalization. In American Naturalist, 2013, vol. 181, no. 3, pp. 421. ISSN 0003-0147., WOS
- [1.1] PARLANTI, S. - KUDAHETTIGE, N. P. - LOMBARDI, L. - MENSUALI-SODI, A. - ALPI, A. - PERATA, P. - PUCCIARIELLO, C. Distinct mechanisms for aerenchyma formation in leaf sheaths of rice genotypes displaying a quiescence or escape strategy for flooding tolerance. In ANNALS OF BOTANY, 2011, vol.107, no.8, 1335-1343., WOS
- [1.1] POULSEN, Christian Peter - DILOKPIMOL, Adiphol - MOUILLE, Gregory - BUROW, Meike - GESHI, Naomi. Arabinogalactan Glycosyltransferases Target to a Unique Subcellular Compartment That May Function in Unconventional Secretion in Plants. In Traffic, 2014, vol. 15, no. 11, pp. 1219. ISSN 1398-9219., WOS
- [1.1] QIU, Quan-Sheng. Plant and Yeast NHX Antiporters: Roles in Membrane Trafficking. In Journal of Integrative Plant Biology, 2012, vol. 54, no. 2, p. 66., WOS
- [1.1] SCHMIDT, Susanne - RAVEN, John A. - PAUNGFOO-LONHIENNE, Chanyarat. The mixotrophic nature of photosynthetic plants. In Functional Plant Biology, 2013, vol. 40, no. 5, pp. 425. ISSN 1445-4408., WOS
- [1.1] SMOLARKIEWICZ, Michalina - SKRZYPCZAK, Tomasz - WOJTASZEK, Przemyslaw. The very many faces of presenilins and the gamma-secretase complex. In Protoplasma, 2013, vol. 250, no. 5, pp. 997. ISSN 0033-183X., WOS
- [1.1] WANG, Lihong - LI, Jigang - ZHOU, Qing - YANG, Guangmei - DING, Xiao Lan - LI, Xiaodong - CAI, Chen Xin - ZHANG, Zhao - WEI, Hai Yan - LU, Tian Hong - DENG, Xing Wang - HUANG, Xiao Hua. Rare earth elements activate endocytosis in plant cells. In Proceedings of the National Academy of Sciences of the United States of America, 2014, vol. 111, no. 35, pp.

12936. ISSN 0027-8424., WOS

- [1.1] WANG, Ning - LO PRESTI, Libera - ZHU, Yi-Hua - KANG, Minhee - WU, Zhengrong - MARTIN, Sophie G. - WU, Jian-Qiu. The novel proteins Rng8 and Rng9 regulate the myosin-V Myo51 during fission yeast cytokinesis. In *Journal of Cell Biology*, 2014, vol. 205, no. 3, pp. 357. ISSN 0021-9525., WOS
- [1.1] WANG, Ping - SHEN, Gui. The endocytic adaptor proteins of pathogenic fungi: charting new and familiar pathways. In *MEDICAL MYCOLOGY*, 2011, vol.49, no.5, 449-457., WOS
- [1.1] YU, Miao - ZHAO, Jie. The cytological changes of tobacco zygote and proembryo cells induced by beta-glucosyl Yariv reagent suggest the involvement of arabinogalactan proteins in cell division and cell plate formation. In *BMC Plant Biology*, 2012, vol. 12. ISSN 1471-2229., WOS
- [1.1] ZHANG, Liang - ZHANG, Haiyan - LIU, Peng - HAO, Huaiqing - JIN, Jing Bo - LIN, Jinxing. Arabidopsis R-SNARE Proteins VAMP721 and VAMP722 Are Required for Cell Plate Formation. In *PLOS ONE*, 2011, vol.6, no.10., WOS
- [1.1] ZHANG, Zhaoqi - FRIEDMAN, Haya - MEIR, Shimon - BELAUSOV, Eduard - PHILOSOPH-HADAS, Sonia. Actomyosin mediates gravisensing and early transduction events in reoriented cut snapdragon spikes. In *JOURNAL OF PLANT PHYSIOLOGY*, 2011, vol.168, no.11, 1176-1183., WOS

ADCA168 ŠAMAJ, Jozef - MULLER, J. - BECK, M. - BOHM, N. - MENZEL, D.

Vesicular trafficking, cytoskeleton and signalling in root hairs and pollen tubes. In *Trends in Plant Science*, 2006, vol. 11, no.12, p. 594-600. (2006 - Current Contents). ISSN 1360-1385.

Ohlasy:

- [1.1] ABIODUN, Moses Olabiyi - MATSUOKA, Ken. Evidence that Proliferation of Golgi Apparatus Depends on Both De Novo Generation from the Endoplasmic Reticulum and Formation from Pre-Existing Stacks During the Growth of Tobacco BY-2 Cells. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2013, vol. 54, no. 4, pp. 541., WOS
- [1.1] BASSIL, Elias - OHTO, Masa-aki - ESUMI, Tomoya - TAJIMA, Hiromi - ZHU, Zhu - CAGNAC, Olivier - BELMONTE, Mark - PELEG, Zvi - YAMAGUCHI, Toshio - BLUMWALD, Eduardo. The Arabidopsis Intracellular Na+/H<sup>+</sup> Antiporters NHX5 and NHX6 Are Endosome Associated and Necessary for Plant Growth and Development. In *PLANT CELL*, 2011, vol.23, no.1, 224-239., WOS
- [1.1] BECKER, Joerg D. - TAKEDA, Seiji - BORGES, Filipe - DOLAN, Liam - FEIJO, Jose A. Transcriptional profiling of Arabidopsis root hairs and pollen defines an apical cell growth signature. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2014, vol. 14, no., pp., WOS
- [1.1] CONTENTO, Anthony L. - BASSHAM, Diane C. Structure and function of endosomes in plant cells. In *JOURNAL OF CELL SCIENCE*. ISSN 0021-9533, 2012, vol. 125, no. 15, pp. 3511., WOS
- [1.1] DE STORME, Nico - GEELEN, Danny. Callose homeostasis at plasmodesmata: molecular regulators and developmental relevance. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS
- [1.1] DEL DUCA, Stefano - SERAFINI-FRACASSINI, Donatella - CAI, Giampiero. Senescence and programmed cell death in plants: polyamine action

- mediated by transglutaminase. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS
- [1.1] DOMOZYCH, David S. The quest for four-dimensional imaging in plant cell biology: its just a matter of time. In ANNALS OF BOTANY, 2012, vol.110, no.2, 461., WOS
- [1.1] DONG, Yanni - LI, Maoyin - ZHANG, Peng - WANG, Xuemin - FAN, Chuchuan - ZHOU, Yongming. Patatin-related phospholipase pPLAIII delta influences auxin-responsive cell morphology and organ size in Arabidopsis and Brassica napus. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2014, vol. 14, no., pp., WOS
- [1.1] DU, Cheng - XU, Yunyuan - WANG, Yingdian - CHONG, Kang. Adenosine Diphosphate Ribosylation Factor-GTPase-Activating Protein Stimulates the Transport of AUX1 Endosome, Which Relies on Actin Cytoskeletal Organization in Rice Root Development. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY, 2011, vol.53, no.9, 698-709., WOS
- [1.1] EGEA, Gustavo - SERRA-PEINADO, Carla - SALCEDO-SICILIA, Laia - GUTIERREZ-MARTINEZ, Enric. Actin acting at the Golgi. In HISTOCHEMISTRY AND CELL BIOLOGY. ISSN 0948-6143, 2013, vol. 140, no. 3, pp. 347., WOS
- [1.1] FAN, Jun-Ling - WEI, Xue-Zhi - WAN, Li-Chuan - ZHANG, Ling-Yun - ZHAO, Xue-Qin - LIU, Wei-Zhong - HAO, Huai-Qin - ZHANG, Hai-Yan. Disarrangement of actin filaments and Ca<sup>2+</sup> gradient by CdCl<sub>2</sub> alters cell wall construction in Arabidopsis thaliana root hairs by inhibiting vesicular trafficking. In JOURNAL OF PLANT PHYSIOLOGY, 2011, vol.168, no.11, 1157-1167., WOS
- [1.1] GAO, Yong-Bin - WANG, Chun-Lei - WU, Ju-You - ZHOU, Hong-Sheng - JIANG, Xue-Ting - WU, Jun - ZHANG, Shao-Ling. Low temperature inhibits pollen tube growth by disruption of both tip-localized reactive oxygen species and endocytosis in Pyrus bretschneideri Rehd. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2014, vol. 74, no., pp. 255., WOS
- [1.1] HAO, Huaiqing - CHEN, Tong - FAN, Lusheng - LI, Ruili - WANG, Xiaohua. 2, 6-dichlorobenzonitrile Causes Multiple Effects on Pollen Tube Growth beyond Altering Cellulose Synthesis in Pinus bungeana Zucc. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 10, pp., WOS
- [1.1] HASHIDA, Shin-nosuke - TAKAHASHI, Hideyuki - TAKAHARA, Kentaro - KAWAI-YAMADA, Maki - KITAZAKI, Kazuyoshi - SHOJI, Kazuhiro - GOTO, Fumiuki - YOSHIHARA, Toshihiro - UCHIMIYA, Hirofumi. NAD(+) Accumulation during Pollen Maturation in Arabidopsis Regulating Onset of Germination. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 1, pp. 216., WOS
- [1.1] HEPLER, Peter K. - ROUNDS, Caleb M. - WINSHIP, Lawrence J. Control of Cell Wall Extensibility during Pollen Tube Growth. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 4, pp. 998., WOS
- [1.1] KLIMA, A. - FOISSNER, I. Actin-dependent deposition of putative endosomes and endoplasmic reticulum during early stages of wound healing in characean internodal cells. In PLANT BIOLOGY, 2011, vol.13, no.4, 590-601., WOS
- [1.1] LIANG, Wei-Hong - WANG, Hua-Hua - LI, Hui - WANG, Jun-Jie - YANG, Dan-Dan - HAO, Yu-Fan - LI, Jia-Jia - LOU, Chen - LIN, Qun-Ting -

- HOU, Cheng-Qian. Isolation and characterization of OsMY1, a putative partner of OsRac5 from *Oryza sativa* L. In MOLECULAR BIOLOGY REPORTS. ISSN 0301-4851, 2014, vol. 41, no. 3, pp. 1829., WOS
- [1.1] LOMBARDO, M. C. - LAMATTINA, L. Nitric oxide is essential for vesicle formation and trafficking in *Arabidopsis* root hairgrowth. In JOURNAL OF EXPERIMENTAL BOTANY, 2012, vol.63, no.13, 4875., WOS
- [1.1] MEDVEDEV, S. S. Mechanisms and physiological role of polarity in plants. In RUSSIAN JOURNAL OF PLANT PHYSIOLOGY, 2012, vol.59, no.4, 502., WOS
- [1.1] MURRAY, Jeremy D. Invasion by Invitation: Rhizobial Infection in Legumes. In MOLECULAR PLANT-MICROBE INTERACTIONS, 2011, vol.24, no.6, 631-639., WOS
- [1.1] QIN, Yunxia - SHI, Feng - TANG, Chaorong. Molecular characterization and expression analysis of cDNAs encoding four Rab and two Arf GTPases in the latex of *Hevea brasiliensis*. In PLANT PHYSIOLOGY AND BIOCHEMISTRY, 2011, vol.49, no.7, 729-737., WOS
- [1.1] SAMBADE, Adrian - FINDLAY, Kim - SCHAEFFNER, Anton R. - LLOYD, Clive W. - BUSCHMANN, Henrik. Actin-Dependent andIndependent Functions of Cortical Microtubules in the Differentiation of *Arabidopsis* Leaf Trichomes. In PLANT CELL. ISSN 1040-4651, 2014, vol. 26, no. 4, pp. 1629., WOS
- [1.1] SANG, Ya Lin - XU, Meng - MA, Fang Fang - CHEN, Hao - XU, Xiao Hui - GAO, Xin-Qi - ZHANG, Xian Sheng. Comparative proteomic analysis reveals similar and distinct features of proteins in dry and wet stigmas. In PROTEOMICS, 2012, vol.12, no.12, 1983., WOS
- [1.1] STEINHORST, Leonie - KUDLA, Joerg. Calcium a central regulator of pollen germination and tube growth. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. ISSN 0167-4889, 2013, vol. 1833, no. 7, pp. 1573., WOS
- [1.1] TAN, Julie - BRILL, Julie A. Cinderella story: PI4P goes from precursor to key signaling molecule. In CRITICAL REVIEWS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 1040-9238, 2014, vol. 49, no. 1, pp. 33., WOS
- [1.1] TRAN, Frances - PENNIKET, Carolyn - PATEL, Rohan V. - PROVART, Nicholas J. - LAROCHE, Andre - ROWLAND, Owen - ROBERT, Laurian S. Developmental transcriptional profiling reveals key insights into Triticeae reproductive development. In PLANT JOURNAL. ISSN 0960-7412, 2013, vol. 74, no. 6, pp. 971., WOS
- [1.1] WANG, Hao - JIANG, Liwen. Transient expression and analysis of fluorescent reporter proteins in plant pollen tubes. In NATURE PROTOCOLS, 2011, vol.6, no.4, 419-426., WOS
- [1.1] WANG, Hao - ZHUANG, Xiao-Hong - HILLMER, Stefan - ROBINSON, David G. - JIANG, Li-Wen. Vacuolar Sorting Receptor (VSR) Proteins Reach the Plasma Membrane in Germinating Pollen Tubes. In MOLECULAR PLANT, 2011, vol.4, no.5, 845-853., WOS
- [1.1] WANG, Pei-Hui - HUANG, Tianzhi - ZHANG, Xiaobo - HE, Jian-Guo. Antiviral defense in shrimp: From innate immunity to viral infection. In ANTIVIRAL RESEARCH. ISSN 0166-3542, 2014, vol. 108, no., pp. 129., WOS
- [1.1] XU, Na - GAO, Xin-Qi - ZHAO, Xin Ying - ZHU, Dong Zi - ZHOU,

Liang Zi - ZHANG, Xian Sheng. Arabidopsis AtVPS15 is essential for pollen development and germination through modulating phosphatidylinositol 3-phosphate formation. In PLANT MOLECULAR BIOLOGY, 2011, vol.77, no.3, 251-260., WOS

[1.1] YANG, Xue - BEN, Siqi - SUN, Yingjiao - FAN, Xinlei - TIAN, Chengming - WANG, Yonglin. Genome-Wide Identification, Phylogeny and Expression Profile of Vesicle Fusion Components in *Verticillium dahliae*. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 7, pp., WOS

[1.1] YE, Ting - ZHANG, Xiaobo. Involvement of Ran in the regulation of phagocytosis against virus infection in S2 cells. In DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY. ISSN 0145-305X, 2013, vol. 41, no. 4, pp. 491., WOS

[1.1] YOO, Cheol-Min - QUAN, Li - CANNON, Ashley E. - WEN, Jiangqi - BLANCAFLOR, Elison B. AGD1, a class 1 ARF-GAP, acts in common signaling pathways with phosphoinositide metabolism and the actin cytoskeleton in controlling *Arabidopsis* root hair polarity. In PLANT JOURNAL, 2012, vol.69, no.6, 1064., WOS

ADCA169 ŠUNDERLÍKOVÁ, Vanda - SALAJ, Ján - MATUŠÍKOVÁ, Ildikó - WILHELM, E. Isolation and characterization of an embryo-specific Em-like gene of pedunculate oak (*Quercus robur L.*) and its temporal and spatial expression patterns during somatic and zygotic embryo development. In *Trees*, 2009, vol.23, no.1, p.135-144. (1.629 - IF2008). (2009 - Current Contents). ISSN 0931-1890.

Ohlasy:

[1.1] LARA-CHAVEZ, Alejandra - EGERTSDOTTER, Ulrika - FLINN, Barry S. Comparison of gene expression markers during zygotic and somatic embryogenesis in pine. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT. ISSN 1054-5476, 2012, vol. 48, no. 3, pp. 341., WOS

[1.1] VALLADARES, Silvia - RICO, Saleta - VIEITEZ, Ana M. - COVELO, Purificacion - SANCHEZ, Conchi. Expression of the QrCPE gene is associated with the induction and development of oak somatic embryos. In TREE GENETICS & GENOMES. ISSN 1614-2942, 2013, vol. 9, no. 6, pp. 1383., WOS

[1.1] VIEITEZ, Ana M. - CORREDOIRA, Elena - TERESA MARTINEZ, M. - CARMEN SAN-JOSE, M. - SANCHEZ, Conchi - VALLADARES, Silvia - VIDAL, Nieves - BALLESTER, Antonio. Application of biotechnological tools to *Quercus* improvement. In EUROPEAN JOURNAL OF FOREST RESEARCH. ISSN 1612-4669, 2012, vol. 131, no. 3, pp. 519., WOS

ADCA170 ŠUNDERLÍKOVÁ, V. - SALAJ, Ján - KOPECKÝ, D. - SALAJ, Terézia - WILHELM, E. - MATUŠÍKOVÁ, Ildikó. Dehydrin genes and their expression in recalcitrant oak (*Quercus robur*) embryos. In *Plant Cell Reports*, 2009, vol. 28, no.7, p. 1011-1021. (1.946 - IF2008). ISSN 0721-7714.

Ohlasy:

[1.1] DELAHAIE, Julien - HUNDERTMARK, Michaela - BOVE, Jerome - LEPRINCE, Olivier - ROGNIAUX, Helene - BUITINK, Julia. LEA polypeptide profiling of recalcitrant and orthodox legume seeds reveals ABI3-regulated LEA protein abundance linked to desiccation tolerance. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2013, vol. 64, no. 14, pp. 4559., WOS

- [1.1] DEMETER, Zita - KANALAS, Peter - MATHE, Csaba - CSEKE, Klara - SZOLLOSI, Erzsebet - M-HAMVAS, Marta - JAMBRIK, Katalin - KISS, Zoltan - MESZAROS, Ilona. Osmotic stress responses of individual white oak (Quercus section, Quercus subgenus) genotypes cultured in vitro. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2014, vol. 171, no. 2, pp. 16., WOS
- [1.1] KALEMBA, Ewa Marzena - PUKACKA, Stanislawa. Association of Protective Proteins with Dehydration and Desiccation of Orthodox and Recalcitrant Category Seeds of Three Acer Genus Species. In JOURNAL OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2012, vol. 31, no. 3, pp. 351., WOS
- [1.1] KLEINWAECHTER, Maik - RADWAN, Alzahraa - HARA, Masakazu - SELMAR, Dirk. Dehydrin expression in seeds: an issue of maturation drying. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS
- [1.1] QIU, Honglin - ZHANG, Linhua - LIU, Chao - HE, Li - WANG, Aiying - LIU, Hai-Liang - ZHU, Jian-Bo. Cloning and characterization of a novel dehydrin gene, SiDhn2, from Saussurea involucrata Kar. et Kir. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2014, vol. 84, no. 6, pp. 707., WOS
- [1.1] RADWAN, A. - HARA, M. - KLEINWAECHTER, M. - SELMAR, D. Dehydrin expression in seeds and maturation drying: a paradigm change. In PLANT BIOLOGY. ISSN 1435-8603, 2014, vol. 16, no. 5, pp. 853., WOS
- [1.1] VALLADARES, Silvia - RICO, Saleta - VIEITEZ, Ana M. - COVELO, Purificacion - SANCHEZ, Conchi. Expression of the QrCPE gene is associated with the induction and development of oak somatic embryos. In TREE GENETICS & GENOMES. ISSN 1614-2942, 2013, vol. 9, no. 6, pp. 1383., WOS
- [1.1] VASEVA, Irina Ivanova - ANDERS, Iwona - FELLER, Urs. Identification and expression of different dehydrin subclasses involved in the drought response of Trifolium repens. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2014, vol. 171, no. 3-4, pp. 213., WOS
- [1.1] VIEITEZ, Ana M. - CORREDOIRA, Elena - TERESA MARTINEZ, M. - CARMEN SAN-JOSE, M. - SANCHEZ, Conchi - VALLADARES, Silvia - VIDAL, Nieves - BALLESTER, Antonio. Application of biotechnological tools to Quercus improvement. In EUROPEAN JOURNAL OF FOREST RESEARCH. ISSN 1612-4669, 2012, vol. 131, no. 3, pp. 519., WOS

ADCA171 TAKÁČ, Tomáš - PECHAN, Tibor - RICHTER, Hendrik - MÜLLER, Jens - ECK, Carola - BOEHM, Nils - OBERT, Bohuš - REN, Haiyun - NIEHAUS, Karsten - ŠAMAJ, Jozef. Proteomics on Brefeldin A-Treated Arabidopsis Roots Reveals Profilin 2 as a New Protein Involved in the Cross-Talk between Vesicular Trafficking and the Actin Cytoskeleton. In *Journal of Proteome Research*, 2011, vol.10, no.2, p. 488-501. (5.460 - IF2010). (2011 - Current Contents). ISSN 1535-3893.

Ohlasy:

- [1.1] BAR, Maya - LEIBMAN, Meirav - SCHUSTER, Silvia - PITZHADZA, Hilla - AVNI, Adi. EHD1 Functions in Endosomal Recycling and Confers Salt Tolerance. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 1, pp., WOS

- [1.1] BAR, Maya - LEIBMAN, Meirav - SCHUSTER, Silvia - PITZHADZA, Hilla - AVNI, Adi. EHD1 Functions in Endosomal Recycling and Confers Salt Tolerance. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 1, pp., WOS
- [1.1] COLE, Rex A. - MCINALLY, Samantha A. - FOWLER, John E. Developmentally distinct activities of the exocyst enable rapid cell elongation and determine meristem size during primary root growth in *Arabidopsis*. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2014, vol. 14, no., pp., WOS
- [1.1] MATTEI, Benedetta - SABATINI, Sabrina - SCHININA, M. Eugenia. Proteomics in Deciphering the Auxin Commitment in the *Arabidopsis thaliana* Root Growth. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4685., WOS
- [1.1] MATTEI, Benedetta - SABATINI, Sabrina - SCHININA, M. Eugenia. Proteomics in Deciphering the Auxin Commitment in the *Arabidopsis thaliana* Root Growth. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2013, vol. 12, no. 11, pp. 4685., WOS
- [1.1] MISHEV, Kiril - DEJONGHE, Wim - RUSSINOVA, Eugenia. Small Molecules for Dissecting Endomembrane Trafficking: A Cross-Systems View. In CHEMISTRY & BIOLOGY. ISSN 1074-5521, 2013, vol. 20, no. 4, pp. 475., WOS
- [1.1] MISHEV, Kiril - DEJONGHE, Wim - RUSSINOVA, Eugenia. Small Molecules for Dissecting Endomembrane Trafficking: A Cross-Systems View. In CHEMISTRY & BIOLOGY. ISSN 1074-5521, 2013, vol. 20, no. 4, pp. 475., WOS
- [1.1] PIZARRO, Lorena - NORAMBUENA, Lorena. Regulation of protein trafficking: Posttranslational mechanisms and the unexplored transcriptional control. In PLANT SCIENCE. ISSN 0168-9452, 2014, vol. 225, no., pp. 24., WOS
- [1.1] SORIEUL, Mathias - LANGHANS, Markus - GUETZOYAN, Lucie - HILLMER, Stefan - CLARKSON, Guy - LORD, John Michael - ROBERTS, Lynne M. - ROBINSON, David G. - SPOONER, Robert A. - FRIGERIO, Lorenzo. An Exo2 Derivative Affects ER and Golgi Morphology and Vacuolar Sorting in a Tissue-Specific Manner in *Arabidopsis*. In TRAFFIC, 2011, vol.12, no.11, 1552-1562., WOS
- [1.1] SUN, Tiantian - LI, Shanwei - REN, Haiyun. Profilin as a regulator of the membrane-actin cytoskeleton interface in plant cells. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] SUN, Tiantian - LI, Shanwei - REN, Haiyun. Profilin as a regulator of the membrane-actin cytoskeleton interface in plant cells. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] UVACKOVA, Lubica - ONDRUSKOVA, Emilia - DANCHENKO, Maksym - SKULTETY, Ludovit - MIERNYK, Jan A. - HRUBIK, Pavel - HAJDUCH, Martin. Establishing a Leaf Proteome Reference Map for *Ginkgo biloba* Provides Insight into Potential Ethnobotanical Uses. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2014, vol. 62, no. 47, pp. 11547., WOS

ADCA172 UVÁČKOVÁ, Lúbica - ŠKULTÉTY, Ľudovít - BEKEŠOVÁ, Slávka - MCCLAIN, S. - HAJDUCH, Martin. MS(E) Based Multiplex Protein Analysis Quantified Important Allergenic Proteins and Detected Relevant Peptides Carrying

Known Epitopes in Wheat Grain Extracts. In *Journal of Proteome Research*, 2013, vol. 12, no..11, p. 4862-4869. (5.056 - IF2012). (2013 - Current Contents). ISSN 1535-3893.

Ohlasy:

- [1.1] Colgrave, ML (Colgrave, Michelle L.); Goswami, H (Goswami, Hareshwar); Blundell, M (Blundell, Malcolm); Howitt, CA (Howitt, Crispin A.); Tanner, GJ (Tanner, Gregory J.). Using mass spectrometry to detect hydrolysed gluten in beer that is responsible for false negatives by ELISA. *JOURNAL OF CHROMATOGRAPHY A* Volume: 1370 Pages: 105-114, 2014, WOS
- [1.1] Colgrave, ML (Colgrave, Michelle L.); Goswami, H (Goswami, Hareshwar); Blundell, M (Blundell, Malcolm); Howitt, CA (Howitt, Crispin A.); Tanner, GJ. Using mass spectrometry to detect hydrolysed gluten in beer that is responsible for false negatives by ELISA. *JOURNAL OF CHROMATOGRAPHY A* Volume: 1370 Pages: 105-114, 2014, WOS
- [1.1] Gilissen, Luud J. W. J.; van der Meer, Ingrid M.; Smulders, Marinus J. M. Reducing the incidence of allergy and intolerance to cereals. *JOURNAL OF CEREAL SCIENCE* Volume: 59 Issue: 3 Pages: 337-353 Published: MAY 2014, WOS
- [1.1] Koeberl, Martina; Clarke, Dean; Lopata, Andreas L. Next Generation of Food Allergen Quantification Using Mass Spectrometric Systems. *JOURNAL OF PROTEOME RESEARCH* Volume: 13 Issue: 8 Pages: 3499-3509 Published: AUG 2014, WOS

ADCA173 UVÁČKOVÁ, Lubica - TAKÁČ, Tomáš - BOEHM, Nils - OBERT, Bohuš - ŠAMAJ, Jozef. Proteomic and biochemical analysis of maize anthers after cold pretreatment and induction of androgenesis reveals an important role of anti-oxidative enzymes. In *Journal of Proteomics*, 2012, vol.75, no.6, p. 1886-1894. (4.878 - IF2011). (2012 - Current Contents). ISSN 1874-3919.

Ohlasy:

- [1.1] SEHRAWAT, Ankita - GUPTA, Ravi Kant - DESWAL, Renu. Nitric oxide-cold stress signalling cross-talk, evolution of a novel regulatory mechanism. In *Proteomics*. ISSN 16159853, 2013-06-01, 13, 12-13, pp. 1816-1835., WOS
- [1.1] STABENTHEINER, Edith - OBERLAENDER, Andreas - WILLFURTH, Regina. Microspore Reprogramming in Tobacco Effect of Cold Pretreatment on Anther Stress Markers and Embryogenic Efficiency. In *PHYTON-ANNALES REI BOTANICAE*. ISSN 0079-2047, 2014, vol. 54, no. 2, pp. 321., WOS
- [1.2] WU, Xiaolin - GONG, Fangping - WANG, Wei. Protein extraction from plant tissues for 2DE and its application in proteomic analysis. In *Proteomics*. ISSN 16159853, 2014-01-01, 14, 6, pp. 645-658., SCOPUS
- [3.1] Tang, J. - Fu, Z. - Wang, B. Proteomic Research Progress in Maize Development, Stress Response and Heterosis. In *Genetics, Genomics and Breeding of Maize*, 2014, pp. 189.

ADCA174 UVÁČKOVÁ, Lubica - ŠKULTÉTY, Ľudovít - BEKEŠOVÁ, Slávka - MCCLAIN, S. - HAJDUCH, Martin. The MS(E) - proteomic analysis of gliadins and glutenins in wheat grain identifies and quantifies proteins associated with celiac

disease and baker's asthma. In *Journal of Proteomics*, 2013, vol. 93, p. 65-73. (4.088 - IF2012). (2013 - Current Contents). ISSN 1874-3919.

Ohlasy:

[1.1] Fiedler, KL (Fiedler, Katherine L.)[ 1 ] ; McGrath, SC (McGrath, Sara C.)[ 1 ] ; Callahan, JH (Callahan, John H.)[ 1 ] ; Ross, MM Characterization of Grain-Specific Peptide Markers for the Detection of Gluten by Mass Spectrometry JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY Volume: 62 Issue: 25 Pages: 5835-5844 Special Issue: SI, 2014, WOS

ADCA175 VARHANÍKOVÁ, M. - UVÁČKOVÁ, Ľubica - ŠKULTÉTY, Ľudovít - PREŤOVÁ, Anna - OBERT, Bohuš - HAJDUCH, Martin. Comparative quantitative proteomic analysis of embryogenic and non-embryogenic calli in maize suggests the role of oxylipins in plant totipotency. In *Journal of Proteomics*, 2014, vol. 104, p. 57-65. (3.929 - IF2013). (2014 - Current Contents). ISSN 1874-3919.

Ohlasy:

[1.1] LUDOVICI, Matteo - IALONGO, Cristiano - REVERBERI, Massimo - BECCACCIOLI, Marzia - SCARPARI, Marzia - SCALA, Valeria. Quantitative profiling of oxylipins through comprehensive LC-MS/MS analysis of Fusarium verticillioides and maize kernels. In **FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT**. ISSN 1944-0049, 2014, vol. 31, no. 12, pp. 2026., WOS

ADCA176 VERNoud, V. - HAJDUCH, Martin - KHALED, A-S. - DEPEGE, N. - ROGOWSKY, P.M. Maize embryogenesis. In *MAYDICA*, 2005, vol.50, no. 3-4, p. 469-483. ISSN 0025-6153.

Ohlasy:

[1.1] CHEN, Jian - ZENG, Biao - ZHANG, Mei - XIE, Shaojun - WANG, Gaokui - HAUCK, Andrew - LAI, Jinsheng. Dynamic Transcriptome Landscape of Maize Embryo and Endosperm Development. In **PLANT PHYSIOLOGY**. ISSN 0032-0889, 2014, vol. 166, no. 1, pp. 252., WOS

[1.1] LELJAK-LEVANIC, Dunja - JURANIC, Martina - SPRUNCK, Stefanie. De novo zygotic transcription in wheat (*Triticum aestivum L.*) includes genes encoding small putative secreted peptides and a protein involved in proteasomal degradation. In **PLANT REPRODUCTION**. ISSN 2194-7953, 2013, vol. 26, no. 3, pp. 267., WOS

[1.1] LOPEZ-RIBERA, Ignacio - LUIS LA PAZ, Jose - REPISO, Carlos - GARCIA, Nora - MIQUEL, Merce - LUISA HERNANDEZ, Maria - MANUEL MARTINEZ-RIVAS, Jose - VICIENT, Carlos M. The Evolutionary Conserved Oil Body Associated Protein OBAP1 Participates in the Regulation of Oil Body Size. In **PLANT PHYSIOLOGY**. ISSN 0032-0889, 2014, vol. 164, no. 3, pp. 1237., WOS

[1.1] LU, Xiaoduo - CHEN, Dijun - SHU, Defeng - ZHANG, Zhao - WANG, Weixuan - KLUKAS, Christian - CHEN, Ling-ling - FAN, Yunliu - CHEN, Ming - ZHANG, Chunyi. The Differential Transcription Network between Embryo and Endosperm in the Early Developing Maize Seed(1[C][W][OA]). In **PLANT PHYSIOLOGY**. ISSN 0032-0889, 2013, vol. 162, no. 1, pp. 440., WOS

[1.1] PHILLIPS, Allison R. - EVANS, Matthew M. S. Analysis of stunter1, a Maize Mutant with Reduced Gametophyte Size and Maternal Effects on Seed

- Development. In GENETICS, 2011, vol.187, no.4, 1085., WOS
- [1.1] SILUE, Souleymane - JACQUEMIN, Jean-Marie - BAUDOIN, Jean-Pierre. Use of induced mutations in embryogenesis study in bean Phaseolus vulgaris L. and two model plants, Arabidopsis thaliana (L.) Heynh. and Zea mays L. In BIOTECHNOLOGIE AGRONOMIE SOCIETE ET ENVIRONNEMENT, 2011, vol.15, no.1, 195., WOS
- [1.1] SILUE, Souleymane - DIARRASSOUBA, Nafan - FOFANA, Inza Jesus - MUHOVSKI, Yordan - TOUSSAINT, Andre - MERGEAI, Guy - JACQUEMIN, Jean-Marie - BAUDOIN, Jean-Pierre. Description of Phaseolus vulgaris L. aborting embryos from ethyl methanesulfonate (EMS) mutagenized plants. In BIOTECHNOLOGIE AGRONOMIE SOCIETE ET ENVIRONNEMENT. ISSN 1370-6233, 2013, vol. 17, no. 4, pp. 563., WOS
- [1.1] WALLEY, Justin W. - SHEN, Zhouxin - SARTOR, Ryan - WU, Kevin J. - OSBORN, Joshua - SMITH, Laurie G. - BRIGGS, Steven P. Reconstruction of protein networks from an atlas of maize seed proteotypes. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2013, vol. 110, no. 49, pp. E4808., WOS

ADCA177 VITHA, S. - BALUŠKA, František - BRAUN, Markus - ŠAMAJ, Jozef - VOLKMANN, Dieter - BARLOW, Peter W. Comparison of cryofixation and aldehyde fixation for plant actin immunocytochemistry: aldehydes do not destroy F-actin. In *Histochemical journal : journal of cell and tissue biochemistry*, 2000, vol. 32, no. 8, p. 457-466. ISSN 0018-2214.

Ohlasy:

- [1.1] BORKOVCOVA, Petra - PEKAROVA, Blanka - VALKOVA, Martina - DOPITOVA, Radka - BRZOBOHATY, Bretislav - JANDA, Lubomir - HEJATKO, Jan. Antibodies against CKI1(RD), a receiver domain of the sensor histidine kinase in Arabidopsis thaliana: From antigen preparation to in planta immunolocalization. In Phytochemistry, 2014, vol. 100, no., pp. 6. ISSN 0031-9422., WOS
- [1.1] REBOUL, Rebecca - GESERICK, Claudia - PABST, Martin - FREY, Beat - WITTMANN, Doris - LUETZ-MEINDL, Ursula - LEONARD, Renaud - TENHAKEN, Raimund. Down-regulation of UDP-glucuronic Acid Biosynthesis Leads to Swollen Plant Cell Walls and Severe Developmental Defects Associated with Changes in Pectic Polysaccharides. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2011, vol.286, no.46, 39982-39992., WOS
- [1.1] VILLANUEVA, Marco A. - ARZAPALO-CASTANEDA, Georgina - EDUARDO CASTILLO-MEDINA, Raul. The actin cytoskeleton organization and disorganization properties of the photosynthetic dinoflagellate Symbiodinium kawagutii in culture. In Canadian Journal of Microbiology, 2014, vol. 60, no. 11, pp. 767. ISSN 0008-4166., WOS

ADCA178 VOIGT, Boris - TIMMERS, A. C. J. - ŠAMAJ, Jozef - HLAVAČKA, Andrej - UEDA, T. - PREUSS, M. - NIELSEN, E. - MATHUR, Jaideep - EMANS, N. - STENMARK, H. - NAKANO, A. - BALUŠKA, František - MENZEL, Diedrik. Actin-based motility of endosomes is linked to the polar tip growth of root hairs. In *European Journal of Cell Biology*. - Jena : Urban and Fischer Verlag, 2005, vol. 84, no. 6, p. 609-621. ISSN 0171-9335.

Ohlasy:

- [1.1] AVISAR, Dror - ABU-ABIED, Mohamad - BELAUSOV, Eduard -

SADOT, Einat. Myosin XIK is a major player in cytoplasm dynamics and is regulated by two amino acids in its tail. In *Journal of Experimental Botany*, 2012, vol. 63, no. 1, p. 241., WOS

[1.1] BAR, Maya - SCHUSTER, Silvia - LEIBMAN, Meirav - EZER, Ran - AVNI, Adi. The function of EHD2 in endocytosis and defense signaling is affected by SUMO. In *Plant Molecular Biology*, 2014, vol. 84, no. 4-5, pp. 509. ISSN 0167-4412., WOS

[1.1] BECK, Martina - ZHOU, Ji - FAULKNER, Christine - MACLEAN, Daniel - ROBATZEK, Silke. Spatio-Temporal Cellular Dynamics of the *Arabidopsis* Flagellin Receptor Reveal Activation Status-Dependent Endosomal Sorting. In *Plant Cell*, 2012, vol. 24, no. 10, pp. 4205. ISSN 1040-4651., WOS

[1.1] EK-RAMOS, Maria J. - AVILA, Julian - DITTRICH, Anna C. Nelson - SU, Dongyin - GRAY, Joel W. - DEVARENNE, Timothy P. The Tomato Cell Death Suppressor Adi3 Is Restricted to the Endosomal System in Response to the *Pseudomonas syringae* Effector Protein AvrPto. In *Plos One*, 2014, vol. 9, no. 10. ISSN 1932-6203., WOS

[1.1] HUANG, Guo-Qiang - LI, En - GE, Fu-Rong - LI, Sha - WANG, Qun - ZHANG, Chun-Qing - ZHANG, Yan. *Arabidopsis* RopGEF4 and RopGEF10 are important for FERONIA-mediated developmental but not environmental regulation of root hair growth. In *New Phytologist*, 2013, vol. 200, no. 4, pp. 1089. ISSN 0028-646X., WOS

[1.1] JORDE, Sigyn - WALTHER, Andrea - WENDLAND, Jurgen. The *Ashbya gossypii* fimbrin SAC6 is required for fast polarized hyphal tip growth and endocytosis. In *MICROBIOLOGICAL RESEARCH*, 2011, vol.166, no.3, 137-145., WOS

[1.1] KESKIN, B. Cevher - YUCA, E. - ERTEKIN, O. - YUKSEL, B. - MEMON, A. R. Expression characteristics of ARF1 and SAR1 during development and the de-etiolation process. In *Plant Biology*, 2012, vol. 14, no. 1, p. 24., WOS

[1.1] KLIMA, A. - FOISSNER, I. Actin-dependent deposition of putative endosomes and endoplasmic reticulum during early stages of wound healing in characean internodal cells. In *PLANT BIOLOGY*, 2011, vol.13, no.4, 590-601., WOS

[1.1] LOMBARDO, M. C. - LAMATTINA, L. Nitric oxide is essential for vesicle formation and trafficking in *Arabidopsis* root hairgrowth. In *Journal of Experimental Botany*, 2012, vol.63, no.13, 4875., WOS

[1.1] LU, Yi-Ju - SCHORNACK, Sebastian - SPALLEK, Thomas - GELDNER, Niko - CHORY, Joanne - SCHELLMANN, Swen - SCHUMACHER, Karin - KAMOUN, Sophien - ROBATZEK, Silke. Patterns of plant subcellular responses to successful oomycete infections reveal differences in host cell reprogramming and endocytic trafficking. In *Cellular Microbiology*, 2012, vol. 4, no. 5, p. 682., WOS

[1.1] MOSCATELLI, A. - IDILLI, A. I. - RODIGHIERO, S. - CACCIANIGA, M. Inhibition of actin polymerisation by low concentration Latrunculin B affects endocytosis and alters exocytosis in shank and tip of tobacco pollen tubes. In *Plant Biology*, 2012, vol.14, no.5, 770., WOS

[1.1] PRATELLI, Rejane - GUERRA, Damian D. - YU, Shi - WOGULIS, Mark - KRAFT, Edward - FROMMER, Wolf B. - CALLIS, Judy - PILOT, Guillaume. The Ubiquitin E3 Ligase LOSS OF GDU2 Is Required for GLUTAMINE DUMPER1-Induced Amino Acid Secretion in *Arabidopsis*. In

- Plant Physiology, 2012, vol. 158, no. 4, pp. 1628. ISSN 0032-0889., WOS
- [1.1] SHARFMAN, Miya - BAR, Maya - EHRLICH, Marcelo - SCHUSTER, Silvia - MELECH-BONFIL, Shiri - EZER, Ran - SESSA, Guido - AVNI, Adi. Endosomal signaling of the tomato leucine-rich repeat receptor-like protein LeEix2. In PLANT JOURNAL, 2011, vol.68, no.3, 413-423., WOS
- [1.1] SHARFMAN, Miya - BAR, Maya - SCHUSTER, Silvia - LEIBMAN, Meirav - AVNI, Adi. Sterol-Dependent Induction of Plant Defense Responses by a Microbe-Associated Molecular Pattern from *Trichoderma viride*. In Plant Physiology, 2014, vol. 164, no. 2, pp. 819. ISSN 0032-0889., WOS
- [1.1] SCHMIDT, Susanne - RAVEN, John A. - PAUNGFOO-LONHIENNE, Chanyarat. The mixotrophic nature of photosynthetic plants. In Functional Plant Biology, 2013, vol. 40, no. 5, pp. 425. ISSN 1445-4408., WOS
- [1.1] SUN, Furong - KALE, Shiv D. - AZURMENDI, Hugo F. - LI, Dan - TYLER, Brett I. - CAPELLUTO, Daniel G. S. Structural Basis for Interactions of the Phytophthora sojae RxLR Effector Avh5 with Phosphatidylinositol 3-Phosphate and for Host Cell Entry. In Molecular Plant-Microbe Interactions, 2013, vol. 26, no. 3, pp. 330. ISSN 0894-0282., WOS
- [1.1] URBINA, Daniela - PEREZ-HENRIQUEZ, Patricio - NORAMBUENA, Lorena - HICKS, GR - ROBERT, S. The Use of Multidrug Approach to Uncover New Players of the Endomembrane System Trafficking Machinery. In Plant Chemical Genomics: Methods and Protocols, 2014, vol. 1056, no., pp. 131. ISSN 1064-3745., WOS
- [1.1] ZHENG, Jiameng - HAN, Sang Won - RODRIGUEZ-WELSH, Maria Fernanda - ROJAS-PIERCE, Marcela. Homotypic Vacuole Fusion Requires VTI11 and Is Regulated by Phosphoinositides. In Molecular Plant, 2014, vol. 7, no. 6, pp. 1026. ISSN 1674-2052., WOS

ADCA179 VOIGT, Boris - TIMMERS, A. C. J. - ŠAMAJ, Jozef - MÜLLER, Josef - BALUŠKA, František - MENZEL, Diedrik. GFP-FABD2 fusion construct allows in vivo visualization of the dynamic actin cytoskeleton in all cells of *Arabidopsis* seedlings. In *European Journal of Cell Biology*, 2005, no. 6, p. 595-608. ISSN 0171-9335.

Ohlasy:

- [1.1] BECK, Martina - ZHOU, Ji - FAULKNER, Christine - MACLEAN, Daniel - ROBATZEK, Silke. Spatio-Temporal Cellular Dynamics of the *Arabidopsis* Flagellin Receptor Reveal Activation Status-Dependent Endosomal Sorting. In PLANT CELL. ISSN 1040-4651, 2012, vol. 24, no. 10, pp. 4205., WOS
- [1.1] BLANCAFLORE, Elison B. REGULATION OF PLANT GRAVITY SENSING AND SIGNALING BY THE ACTIN CYTOSKELETON. In AMERICAN JOURNAL OF BOTANY. ISSN 0002-9122, 2013, vol. 100, no. 1, pp. 143., WOS
- [1.1] CAO, Ping - SUN, Jing - ZHAO, Peng - LIU, Heng - ZHENG, Guochang. A new putative plasmodesmata-associated protein, At1g19190, in *Arabidopsis*. In AFRICAN JOURNAL OF BIOTECHNOLOGY, 2011, vol.10, no.76, 17409-17423., WOS
- [1.1] CEVHER-KESKIN, Birsen. ARF1 and SAR1 GTPases in Endomembrane Trafficking in Plants. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2013, vol. 14, no. 9, pp. 18181., WOS

- [1.1] DU, Fei - REN, Haiyun. Development and application of probes for labeling the actin cytoskeleton in living plant cells. In PROTOPLASMA, 2011, vol.248, no.2, 239-250., WOS
- [1.1] DYACHOK, Julia - SPARKS, J. Alan - LIAO, Fuqi - WANG, Yuh-Shuh - BLANCAFLOR, Elison B. Fluorescent protein-based reporters of the actin cytoskeleton in living plant cells: Fluorophore variant, actin binding domain, and promoter considerations. In CYTOSKELETON. ISSN 1949-3584, 2014, vol. 71, no. 5, pp. 311., WOS
- [1.1] FAN, Jun-Ling - WEI, Xue-Zhi - WAN, Li-Chuan - ZHANG, Ling-Yun - ZHAO, Xue-Qin - LIU, Wei-Zhong - HAO, Huai-Qin - ZHANG, Hai-Yan. Disarrangement of actin filaments and Ca<sup>2+</sup> gradient by CdCl<sub>2</sub> alters cell wall construction in *Arabidopsis thaliana* root hairs by inhibiting vesicular trafficking. In JOURNAL OF PLANT PHYSIOLOGY, 2011, vol.168, no.11, 1157-1167., WOS
- [1.1] GUAN, Xin - BUCHHOLZ, Guenther - NICK, Peter. Actin marker lines in grapevine reveal a gatekeeper function of guard cells. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2014, vol. 171, no. 13, pp. 1164., WOS
- [1.1] HENTY-RIDILLA, Jessica L. - LI, Jiejie - BLANCHOIN, Laurent - STAIGER, Christopher J. Actin dynamics in the cortical array of plant cells. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2013, vol. 16, no. 6, pp. 678., WOS
- [1.1] JIANG, Kun - SOREFAN, Karim - DEEKS, Michael J. - BEVAN, MichaelW. - HUSSEY, Patrick J. - HETHERINGTON, Alistair M. The ARP2/3 Complex Mediates Guard Cell Actin Reorganization and Stomatal Movement in *Arabidopsis*. In PLANT CELL, 2012, vol.24, no.5, 2031., WOS
- [1.1] JUNG, Seung-Ryoung - SEO, Jong Bae - SHIM, Donghwan - HILLE, Bertil - KOH, Duk-Su. Actin cytoskeleton controls movement of intracellular organelles in pancreatic duct epithelial cells. In CELL CALCIUM, 2012, vol.51, no.6, 459., WOS
- [1.1] LANZA, Monica - GARCIA-PONCE, Berenice - CASTRILLO, Gabriel - CATARECHA, Pablo - SAUER, Michael - RODRIGUEZ-SERRANO, Maria - PAEZ-GARCIA, Ana - SANCHEZ-BERMEJO, Eduardo - MOHAN, T. C. - LEO DEL PUERTO, Yolanda - MARIA SANDALIO, Luisa - PAZ-ARES, Javier - LEYVA, Antonio. Role of Actin Cytoskeleton in Brassinosteroid Signaling and in Its Integration with the Auxin Response in Plants. In DEVELOPMENTAL CELL, 2012, vol.22, no.6, 1275., WOS
- [1.1] LIU PEIWEI - QI MING - XUE XIUHUA - REN HAIYUN. Dynamics and functions of the actin cytoskeleton during the plant cell cycle. In CHINESE SCIENCE BULLETIN, 2011, vol.56, no.33, 3504-3510., WOS
- [1.1] LI, Ruixi - LI, Jieru - LI, Shuai - QIN, Genji - NOVAK, Ondrej - PENCÍK, Ales - LJUNG, Karin - AOYAMA, Takashi - LIU, Jingjing - MURPHY, Angus - GU, Hongya - TSUGE, Tomohiko - QU, Li-Jia. ADP1 Affects Plant Architecture by Regulating Local Auxin Biosynthesis. In PLOS GENETICS. ISSN 1553-7390, 2014, vol. 10, no. 1, pp., WOS
- [1.1] MATOUSKOVA, Jindrika - JANDA, Martin - FISER, Radovan - SASEK, Vladimir - KOCOURKOVA, Daniela - BURKETOVA, Lenka - DUSKOVA, Jirina - MARTINEC, Jan - VALENTOVA, Olga. Changes in actin dynamics are involved in salicylic acid signaling pathway. In PLANT SCIENCE. ISSN 0168-9452, 2014, vol. 223, no., pp. 36., WOS

- [1.1] PARK, Eunsook - NEBENFUEHR, Andreas. Myosin XIK of *Arabidopsis thaliana* Accumulates at the Root Hair Tip and Is Required for Fast Root Hair Growth. In PLOS ONE. ISSN 1932-6203, 2013, vol. 8, no. 10, pp., WOS
- [1.1] ROZERO, Amparo - ZARSKY, Viktor - CVRCKOVA, Fatima - ZARSKY - CVRCKOVA, F. Visualizing and Quantifying the In Vivo Structure and Dynamics of the *Arabidopsis* Cortical Cytoskeleton Using CLSM and VAEM. In PLANT CELL MORPHOGENESIS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2014, vol. 1080, no., pp. 87., WOS
- [1.1] Shi Lan-chun, Wang Bo-chu, Yang Xing-yan, Wang Yi-chuan. Influence of GFP-FABD2, GFP-MBD Fusion Protein on Culture and Stress Response Ability of *Arabidopsis* Suspension Cells. In *Xibei Zhiwu Xuebao*, 2012, vol.32, no.5, p.931-936., WOS
- [1.1] SHI, Lanchun - WANG, Bochu - GONG, Wei - ZHANG, Yungang - ZHU, Liqing - YANG, Xingyan. Actin filaments and microtubules of *Arabidopsis* suspension cells show different responses to changing turgor pressure. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 2011, vol.405, no.4, 632-637., WOS
- [1.1] SKAU, Colleen T. - COURSON, David S. - BESTUL, Andrew J. - WINKELMAN, Jonathan D. - ROCK, Ronald S. - SIROTKIN, Vladimir - KOVAR, David R. Actin Filament Bundling by Fimbrin Is Important for Endocytosis, Cytokinesis, and Polarization in Fission Yeast. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2011, vol.286, no.30, 26964-26977., WOS
- [1.1] SVUBOVA, Renata - BLEHOVA, Alzbeta. Stable transformation and actin visualization in callus cultures of dodder (*Cuscuta europaea*). In BIOLOGIA. ISSN 0006-3088, 2013, vol. 68, no. 4, pp. 633., WOS
- [1.1] VAN DER HONING, Hannie S. - VAN BEZOUWEN, Laura S. - EMONS, Anne Mie C. - KETELAAR, Tijs. High Expression of Lifeact in *Arabidopsis thaliana* Reduces Dynamic Reorganization of Actin Filaments but does not Affect Plant Development. In CYTOSKELETON, 2011, vol.68, no.10, 578-587., WOS
- [1.1] VENUS, Yvonne - OELMUELLER, Ralf. *Arabidopsis ROP1* and *ROP6* Influence Germination Time, Root Morphology, the Formation of F-Actin Bundles, and Symbiotic Fungal Interactions. In MOLECULAR PLANT. ISSN 1674-2052, 2013, vol. 6, no. 3, pp. 872., WOS
- [1.1] XU, Shi-Xiao - CAI, Xiao-Dong - TAN, Bin - GUO, Wen-Wu. Comparison of expression of three different sub-cellular targeted GFPs in transgenic Valencia sweet orange by confocal laser scanning microscopy. In PLANT CELL TISSUE AND ORGAN CULTURE, 2011, vol.104, no.2, 199-207., WOS
- [1.1] ZHANG, Yi - XIAO, Yingyu - DU, Fei - CAO, Lijuan - DONG, Huaijian - REN, Haiyun. *Arabidopsis VILLIN4* is involved in root hair growth through regulating actin organization in a Ca<sup>2+</sup>-dependent manner. In NEW PHYTOLOGIST, 2011, vol.190, no.3, 667-682., WOS

ADCA180 VOOKOVÁ, Božena - KORMUTÁK, Andrej. Comparison of induction frequency, maturation capacity and germination of *Abies numidica* during secondary somatic embryogenesis. In *Biologia Plantarum : international journal*, 2006, vol. 50, no. 4, p. 785-788. (0.792 - IF2005). ISSN 0006-3134.

Ohlasy:

- [1.2] KORECKÝ, J. - VÍTÁMVÁS, J. Somatic embryogenesis of the hybrid *Abies cilicica* × *Abies cephalonica*. In *Journal of Forest Science*, 2011, vol.57, no.9, 401-408., SCOPUS

ADCA181 VOOKOVÁ, Božena - HŘIB, Jiří - KORMUTÁK, Andrej. Defence reactions of developing somatic embryos of Algerian fir (*Abies numidica*). In *Forest Pathology : Journal de pathologie forestiere*. - Oxford : Blackwell publishing, 2006, 2006, vol. 36, june, p.145-224. ISSN 1437-4781.

Ohlasy:

- [1.1] GLIWICKA, Marta - NOWAK, Katarzyna - CIESLA, Edyta - GAJ, Małgorzata D. Expression of seed storage product genes (CRA1 and OLEO4) in embryogenic cultures of somatic tissues of *Arabidopsis*. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2012, vol. 109, no. 2, pp. 235., WOS

- [1.1] NAWROT-CHORABIK, Katarzyna - JANKOWIAK, Robert - GRAD, Bartomiej. Growth of two blue-stain fungi associated with *Tetropium* beetles in the presence of callus cultures of *Picea abies*. In *DENDROBIOLOGY*, 2011, vol.66, no., 41-47., WOS

- [1.1] NAWROT-CHORABIK, Katarzyna. Possible use of dual cultures in the forestry practice. In *SYLWAN*. ISSN 0039-7660, 2013, vol. 157, no. 1, pp. 54., WOS

- [1.1] NAWROT-CHORABIK, K. Interactions between embryogenic callus of *Abies alba* and *Heterobasidion* spp. in dual cultures. In *BIOLOGIA PLANTARUM*. ISSN 0006-3134, 2014, vol. 58, no. 2, pp. 363., WOS

ADCA182 VOOKOVÁ, Božena - KORMUTÁK, Andrej. Effect of sucrose concentration, charcoal, and indole-3-butryic acid on germination of *Abies numidica* somatic embryos. In *Biologia Plantarum : international journal*, 2001, vol. 44, no. 4, p. 181-184. (2001 - Current Contents). ISSN 0006-3134.

Ohlasy:

- [1.1] LEHMANN, Johannes - RILLIG, Matthias C. - THIES, Janice - MASIELLO, Caroline A. - HOCKADAY, William C. - CROWLEY, David. Biochar effects on soil biota A review. In *SOIL BIOLOGY & BIOCHEMISTRY*, 2011, vol.43, no.9, 1812., WOS

- [3] CALIC-DRAGOSAVAC, Dusica - RADOJEVIC, Ljiljana. Improvement of maturation and conversion of horse chestnut androgenic embryos. In *Biologica Nyssana*, vol. 1, no. 1-2 December 2010, p. 49-55.

ADCA183 VOOKOVÁ, Božena - KORMUTÁK, Andrej - HŘIB, J. Effect of Myo-inositol on somatic embryogenesis of *Abies numidica*. In *JOURNAL OF APPLIED BOTANY-ANGEWANDTE BOTANIK*, 2001, vol.75, no.1-2, p. 46-49. ISSN 0949-5460.

Ohlasy:

- [1.1] VONDRAKOVA, Zuzana - ELIASOVA, Katerina - FISCHEROVA, Lucie - VAGNER, Martin. The role of auxins in somatic embryogenesis of *Abies alba*. In *CENTRAL EUROPEAN JOURNAL OF BIOLOGY*, 2011, vol.6, no.4, 587., WOS

ADCA184 VOOKOVÁ, Božena - MACHAVA, J. - ŠALGOVIČOVÁ, A. - KORMUTÁK, Andrej. Optimization of Algerian fir somatic embryos maturation. In *Biologia Plantarum : international journal*, 2010, vol. 54, no.1, p. 177-180. (1.656 - IF2009). (2010 - Current Contents). ISSN 0006-3134.

Ohlasy:

- [1.1] STOJICIC, D. - JANOSEVIC, D. - UZELAC, B. - COKESA, V. - BUDIMIR, S. Micropropagation of Pinus peuce. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2012, vol. 56, no. 2, pp. 362., WOS
- [1.1] VONDRAKOVA, Zuzana - ELIASOVA, Katerina - FISCHEROVA, Lucie - VAGNER, Martin. The role of auxins in somatic embryogenesis of Abies alba. In CENTRAL EUROPEAN JOURNAL OF BIOLOGY, 2011, vol.6, no.4, 587-596., WOS
- [1.1] YANG, Ling - BIAN, Lei - SHEN, Hai-long - LI, Yu-hua. Somatic embryogenesis and plantlet regeneration from mature zygotic embryos of Manchurian ash (Fraxinus mandshurica Rupr.). In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2013, vol. 15, no. 2, pp. 115., WOS

ADCA185 VOOKOVÁ, Božena - MATÚŠOVÁ, Radoslava - KORMUTÁK, Andrej. Secondary somatic embryogenesis in Abies numidica. In *Biologia Plantarum : international journal*, 2003, vol. 46, no. 4, p. 513-517. ISSN 0006-3134.

Ohlasy:

- [1.2] KORECKÝ, J. - VÍTÁMVÁS, J. Somatic embryogenesis of the hybrid Abies cilicica × Abies cephalonica. In Journal of Forest Science, 2011, vol.57, no.9, 401-408., SCOPUS

ADCA186 VOOKOVÁ, Božena - GAJDOSOVÁ, Alena - MATÚŠOVÁ, Radoslava. Somatic embryogenesis in Abies alba x Abies alba and Abies alba x Abies nordmanniana hybrids. In *Biologia Plantarum*, 1998, vol. 40, no. 4, p. 523-530. (0.393 - IF1997). (1998 - Current Contents). ISSN 0006-3134.

Ohlasy:

- [1.1] KRAJNAKOVA, Jana - BERTOLINI, Alberto - GOEMOERY, Dusan - VIANELLO, Angelo - HAGGMAN, Hely. Initiation, long-term cryopreservation, and recovery of Abies alba Mill. embryogenic cell lines. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT. ISSN 1054-5476, 2013, vol. 49, no. 5, pp. 560., WOS
- [3.1] Krajňáková, J - Gömöry, D. - Häggman, H. Biotechnology Tools for Conservation of the Biodiversity of European and Mediterranean Abies Species. In: Biotechnology and Biodiversity, Sustainable Development and Biodiversity 4. Chapter 14, 287-310. Springer International Publishing Switzerland 2014. DOI 10.1007/978-3-319-09381-9\_14.

ADCA187 VOOKOVÁ, Božena - KORMUTÁK, Andrej. Some features of somatic embryo maturation of Algerian fir. In *In vitro cellular and developmental biology - plant*, 2002, vol. 38, no. 6, p. 549-561. ISSN 1054-5476.

Ohlasy:

- [1.1] HERINGER, Angelo Schuabb - VALE, Ellen Moura - BARROSO, Tatiana - SANTA-CATARINA, Claudete - SILVEIRA, Vanildo. Polyethylene glycol effects on somatic embryogenesis of papaya hybrid UENF/CALIMAN 01 seeds. In THEORETICAL AND EXPERIMENTAL PLANT PHYSIOLOGY. ISSN 2197-0025, 2013, vol. 25, no. 2, pp. 116., WOS

- [1.1] KRAJNAKOVA, Jana - NIEMI, Karoliina - GOEMOERY, Dusan - HAGGMAN, Hely. Effects of different ectomycorrhizal fungi on somatic embryogenesis of *Abies cephalonica* Loud. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 109, no. 2, pp. 353., WOS
- [1.1] KRAJNAKOVA, Jana - SUTELA, Suvi - ARONEN, Tuija - GOEMOERY, Dusan - VIANELLO, Angelo - HAGGMAN, Hely. Long-term cryopreservation of Greek fir embryogenic cell lines: Recovery, maturation and genetic fidelity. In CRYOBIOLOGY, 2011, vol.63, no.1, 17-25., WOS
- [1.1] VONDRAKOVA, Zuzana - ELIASOVA, Katerina - FISCHEROVA, Lucie - VAGNER, Martin. The role of auxins in somatic embryogenesis of *Abies alba*. In CENTRAL EUROPEAN JOURNAL OF BIOLOGY, 2011, vol.6, no.4, 587-596., WOS
- [1.1] YANG, Ling - LI, Yuhua - SHEN, Hailong. Somatic embryogenesis and plant regeneration from immature zygotic embryo cultures of mountain ash (*Sorbus pohuashanensis*). In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2012, vol. 109, no. 3, pp. 547., WOS
- [1.2] KORECKÝ, J. - VÍTÁMVÁS, J. Somatic embryogenesis of the hybrid *Abies cilicica* × *Abies cephalonica*. In Journal of Forest Science, 2011, vol.57, no.9, 401-408., SCOPUS

ADCA188 WANG, Feng - JING, Y.P. - WANG, Zhen - MAO, T. - ŠAMAJ, Jozef - YUAN, M. - REN, H.Y. Arabidopsis Profilin Isoforms, PRF1 and PRF2 Show Distinctive Binding Activities and Subcellular Distributions. In *Journal of Integrative Plant Biology*. ISSN 1672-9072.

Ohlasy:

- [1.1] ARGIRIOU, Anagnostis - KALIVAS, Apostolos - MICHAELIDIS, Georgios - TSAFTARIS, Athanasios. Characterization of PROFILIN genes from allotetraploid (*Gossypium hirsutum*) cotton and its diploid progenitors and expression analysis in cotton genotypes differing in fiber characteristics. In MOLECULAR BIOLOGY REPORTS, 2012, vol.39, no.4, 3523., WOS
- [1.1] FAN, Tingting - ZHAI, Huanhuan - SHI, Wenwei - WANG, Jue - JIA, Honglei - XIANG, Yun - AN, Lizhe. Overexpression of profilin 3 affects cell elongation and F-actin organization in *Arabidopsis thaliana*. In PLANT CELL REPORTS. ISSN 0721-7714, 2013, vol. 32, no. 1, pp. 149., WOS
- [1.1] HUANG, Shanjin - XIANG, Yun - REN, Haiyun - LIU, B. Actin-Binding Proteins and Actin Dynamics in Plant Cells. In PLANT CYTOSKELETON, 2011, vol.2, no., 57., WOS
- [1.1] MEAGHER, Richard B. - KANDASAMY, Muthugapatti K. - KING, Lori - LIU, B. Actin Functions in the Cytoplasmic and Nuclear Compartments. In PLANT CYTOSKELETON, 2011, vol.2, no., 3., WOS

ADCA189 WANG, O. L. - KONG, L. G. - WANG, X. H. - LIN, Jinxing - ŠAMAJ, Jozef - BALUŠKA, František. Effects of brefeldin A on pollen germination and tube growth. Antagonistic effects on endocytosis and secretion. In *Plant Physiology*, 2005, vol. 139, no. 4, p. 1692-1703. (5.881 - IF2004). (2005 - Current Contents). ISSN 0032-0889.

Ohlasy:

- [1.1] BIAGINI, Giovanni - FALERI, Claudia - CRESTI, Mauro - CAI, Giampiero. Sucrose concentration in the growth medium affects the cell wall composition of tobacco pollen tubes. In Plant Reproduction, 2014, vol. 27, no. 3,

pp. 129. ISSN 2194-7953., WOS

- [1.1] DEL DUCA, Stefano - FALERI, Claudia - IORIO, Rosa Anna - CRESTI, Mauro - SERAFINI-FRACASSINI, Donatella - CAI, Giampiero. Distribution of Transglutaminase in Pear Pollen Tubes in Relation to Cytoskeleton and Membrane Dynamics. In *Plant Physiology*, 2013, vol. 161, no. 4, pp. 1706. ISSN 0032-0889., WOS
- [1.1] FUKUDA, Masako - WEN, Liuying - SATOH-CRUZ, Mio - KAWAGOE, Yasushi - NAGAMURA, Yoshiaki - OKITA, Thomas W. - WASHIDA, Haruhiko - SUGINO, Aya - ISHINO, Sonoko - ISHINO, Yoshizumi - OGAWA, Masahiro - SUNADA, Mariko - UEDA, Takashi - KUMAMARU, Toshihiro. A Guanine Nucleotide Exchange Factor for Rab5 Proteins Is Essential for Intracellular Transport of the Proglutelin from the Golgi Apparatus to the Protein Storage Vacuole in Rice Endosperm. In *Plant Physiology*, 2013, vol. 162, no. 2, pp. 663. ISSN 0032-0889., WOS
- [1.1] GAO, Yong-Bin - WANG, Chun-Lei - WU, Ju-You - ZHOU, Hong-Sheng - JIANG, Xue-Ting - WU, Jun - ZHANG, Shao-Ling. Low temperature inhibits pollen tube growth by disruption of both tip-localized reactive oxygen species and endocytosis in *Pyrus bretschneideri* Rehd. In *Plant Physiology and Biochemistry*, 2014, vol. 74, no., pp. 255. ISSN 0981-9428., WOS
- [1.1] HAVERKAMP, Ilka - FERNIE, Alisdair R. - NEUHAUS, H. Ekkehard. Adenine nucleotide transport in plants: much more than a mitochondrial issue. In *TRENDS IN PLANT SCIENCE*, 2011, vol.16, no.9, 507-515., WOS
- [1.1] CHEBLI, Youssef - KROEGER, Jens - GEITMANN, Anja. Transport Logistics in Pollen Tubes. In *Molecular Plant*, 2013, vol. 6, no. 4, pp. 1037. ISSN 1674-2052., WOS
- [1.1] CHO, Misuk - LEE, Zee-Won - CHO, Hyung-Taeg. ATP-Binding Cassette B4, an Auxin-Efflux Transporter, Stably Associates with the Plasma Membrane and Shows Distinctive Intracellular Trafficking from That of PIN-FORMED Proteins. In *Plant Physiology*, 2012, vol.159, no. 2, p. 642., WOS
- [1.1] KHAN, Abdul Latif - HAMAYUN, Muhammad - HUSSAIN, Javid - KANG, Sang-Mo - LEE, In-Jung. The Newly Isolated Endophytic Fungus *Paraconiothyrium* sp LK1 Produces Ascotoxin. In *Molecules*, 2012, vol. 7, no. 1, p. 1103., WOS
- [1.1] QIN, Yuan - YANG, Zhenbiao. Rapid tip growth: Insights from pollen tubes. In *SEMINARS IN CELL & DEVELOPMENTAL BIOLOGY*, 2011, vol.22, no.8, 816-824., WOS
- [1.1] RIEDER, Benjamin - NEUHAUS, H. Ekkehard. Identification of an *Arabidopsis* Plasma Membrane-Located ATP Transporter Important for Anther Development. In *PLANT CELL*, 2011, vol.23, no.5, 1932-1944., WOS
- [1.1] RICHTER, Sandra - MUELLER, Lena M. - STIERHOF, York-Dieter - MAYER, Ulrike - TAKADA, Nozomi - KOST, Benedikt - VIETEN, Anne - GELDNER, Niko - KONCZ, Csaba - JUERGENS, Gerd. Polarized cell growth in *Arabidopsis* requires endosomal recycling mediated by GBF1-related ARF exchange factors. In *Nature Cell Biology*, 2012, vol. 14, no. 1, p. 80., WOS
- [1.1] ROJAS, Enrique R. - HOTTON, Scott - DUMAIS, Jacques. Chemically Mediated Mechanical Expansion of the Pollen Tube Cell Wall. In *BIOPHYSICAL JOURNAL*, 2011, vol.101, no.8, 1844-1853., WOS
- [1.1] ROUNDS, Caleb M. - HEPLER, Peter K. - WINSHIP, Lawrence J. The Apical Actin Fringe Contributes to Localized Cell Wall Deposition and Polarized

Growth in the Lily Pollen Tube. In *Plant Physiology*, 2014, vol. 166, no. 1, pp. 139. ISSN 0032-0889., WOS

[1.1] SALEM, Tamara - MAZZELLA, Agustina - LAURA BARBERINI, Maria - WENGER, Diego - MOTILLO, Viviana - PARISI, Gustavo - MUSCHIETTI, Jorge. Mutations in Two Putative Phosphorylation Motifs in the Tomato Pollen Receptor Kinase LePRK2 Show Antagonistic Effects on Pollen Tube Length. In *JOURNAL OF BIOLOGICAL CHEMISTRY*, 2011, vol.286, no.6, 4882-4891., WOS

[1.1] SIMIONI, Carmen - ROVER, Ticiane - SCHMIDT, Eder C. - FELIX, Marthiellen R. de L. - POLO, Luz Karime - DOS SANTOS, Rodrigo - COSTA, Giulia Burle - KREUSCH, Marianne - PEREIRA, Debora T. - OURIQUES, Luciane C. - BOUZON, Zenilda L. Effects of brefeldin A on the endomembrane system and germ tube formation of the tetraspore of *Gelidium floridanum* (Rhodophyta, Florideophyceae). In *Journal of Phycology*, 2014, vol. 50, no. 3, pp. 577. ISSN 0022-3646., WOS

[1.1] WANG, Xiaoxia - GAO, Yuan - FENG, Yu - LI, Xue - WEI, Qian - SHENG, Xianyong. Cadmium Stress Disrupts the Endomembrane Organelles and Endocytosis during *Picea wilsonii* Pollen Germination and Tube Growth. In *Plos One*, 2014, vol. 9, no. 4. ISSN 1932-6203., WOS

[1.1] ZHU, Jingen - WU, Xiaorong - YUAN, Shunjie - QIAN, Dong - NAN, Qiong - AN, Lizhe - XIANG, Yun. Annexin5 Plays a Vital Role in *Arabidopsis* Pollen Development via Ca<sup>2+</sup>-Dependent Membrane Trafficking. In *Plos One*, 2014, vol. 9, no. 7. ISSN 1932-6203., WOS

ADCA190 WANG, X. H. - TENG, Y. - WANG, Qin - LI, X. - SHENG, X. Y. - ZHENG, Maozhong - LIN, Jinxing - ŠAMAJ, Jozef - BALUŠKA, František. Imaging of dynamic secretory vesicles in living pollen tubes of *Picea meyeri* using evanescent wave microscopy. In *Plant Physiology*, 2006, vol. 141, no. 4, p. 1591-1603. (6.114 - IF2005). (2006 - Current Contents). ISSN 0032-0889.

Ohlasy:

[1.1] DOMOZYCH, David S. The quest for four-dimensional imaging in plant cell biology: its just a matter of time. In *Annals of Botany*, 2012, vol. 110, no. 2, p. 461., WOS

[1.1] CHEBLI, Youssef - KROEGER, Jens - GEITMANN, Anja. Transport Logistics in Pollen Tubes. In *Molecular Plant*, 2013, vol. 6, no. 4, pp. 1037. ISSN 1674-2052., WOS

[1.1] KROEGER, Jens - GEITMANN, Anja. The pollen tube paradigm revisited. In *Current Opinion in Plant Biology*, 2012, vol. 15, no. 6, p. 618. ISSN 1369-5266., WOS

[1.1] LAZZARO, M.D. - MAROM, E.Y. - REDDY, A.S.N. Polarized cell growth, organelle motility, and cytoskeletal organization in conifer pollen tube tips are regulated by KCBP, the calmodulin-binding kinesin. In *Planta*, 2013, vol. 238, no. 3, p. 587-597. ISSN 0032-0935., WOS

[1.1] LIU, Jun-Tao - HU, Liang-Sheng - LIU, Yan-Ling - CHEN, Rong-Sheng - CHENG, Zhi - CHEN, Shi-Jing - AMATORE, Christian - HUANG, Wei-Hua - HUO, Kai-Fu. Real-Time Monitoring of Auxin Vesicular Exocytotic Efflux from Single Plant Protoplasts by Amperometry at Microelectrodes Decorated with Nanowires. In *Angewandte Chemie-International Edition*, 2014, vol. 53, no. 10, pp. 2643. ISSN 1433-7851., WOS

- [1.1] LIU, Lulu - WOOLF, Alexander - RODRIGUEZ, Alejandro W. - CAPASSO, Federico. Absolute position total internal reflection microscopy with an optical tweezer. In *Proceedings of the National Academy of Sciences of the United States of America*, 2014, vol. 111, no. 52, pp. E5609. ISSN 0027-8424., WOS
- [1.1] STENDER, Anthony S. - MARCHUK, Kyle - LIU, Chang - SANDER, Suzanne - MEYER, Matthew W. - SMITH, Emily A. - NEUPANE, Bhanu - WANG, Gufeng - LI, Junjie - CHENG, Ji-Xin - HUANG, Bo - FANG, Ning. Single Cell Optical Imaging and Spectroscopy. In *Chemical Reviews*, 2013, vol. 113, no. 4, pp. 2469. ISSN 0009-2665., WOS
- [1.1] VIZCAY-BARRENA, Gema - WEBB, Stephen E. D. - MARTIN-FERNANDEZ, Marisa L. - WILSON, Zoe A. Subcellular and single-molecule imaging of plant fluorescent proteins using total internal reflection fluorescence microscopy (TIRFM). In *JOURNAL OF EXPERIMENTAL BOTANY*, 2011, vol.62, no.15, 5419-5428., WOS

ADCA191 WANG, Y. - CHEN, T. - ZHANG, Ch. - HAV, H.Q. - LIN, P. - ZHENG, M.Z. - BALUŠKA, František - ŠAMAJ, Jozef - LIN, J.X. Nitric oxide modulates the influx of extracellular Ca<sup>2+</sup> and actin filament organization during cell wall construction in *Pinus bungeana* pollen tubes. In *New Phytologist*, 2009, vol.182, no. 4, p. 851-862. (5.178 - IF2008). ISSN 0028-646X.

Ohlasy:

- [1.1] ADAMAKIS, Ioannis-Dimosthenis S. - PANTERIS, Emmanuel - ELEFTHERIOU, Eleftherios P. The nitrate reductase inhibitor, tungsten, disrupts actin microfilaments in *Zea mays* L. In *PROTOPLASMA*. ISSN 0033-183X, 2014, vol. 251, no. 3, pp. 567., WOS
- [1.1] BROWNLEE, Colin - HETHERINGTON, Alistair. Introduction to a Virtual Special Issue on calcium signalling in plants. In *NEW PHYTOLOGIST*, 2011, vol.192, no.4, 786-789., WOS
- [1.1] CORPAS, Francisco J. - ALCHE, Juan D. - BARROSO, Juan B. Current overview of S-nitrosoglutathione (GSNO) in higher plants. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] GUHA, S. - RAO, I. Usha. Nitric oxide promoted rhizome induction in *Cymbidium* shoot buds under magnesium deficiency. In *BIOLOGIA PLANTARUM*, 2012, vol.56, no.2, 227., WOS
- [1.1] GUPTA, Kapuganti J. - FERNIE, Alisdair R. - KAISER, Werner M. - VAN DONGEN, Joost T. On the origins of nitric oxide. In *TRENDS IN PLANT SCIENCE*, 2011, vol.16, no.3, 160-168., WOS
- [1.1] CHEN, Juan - LIU, Ting-Wu - HU, Wen-Jun - SIMON, Martin - WANG, Wen-Hua - CHEN, Juan - LIU, Xiang - ZHENG, Hai-Lei. Comparative Proteomic Analysis of Differentially Expressed Proteins Induced by Hydrogen Sulfide in *Spinacia oleracea* Leaves. In *PLOS ONE*. ISSN 1932-6203, 2014, vol. 9, no. 9, pp., WOS
- [1.1] JIAO, Jiao - ZHOU, Benguo - ZHU, Xiaoping - GAO, Zhengliang - LIANG, Yuancun. Fusaric acid induction of programmed cell death modulated through nitric oxide signalling in tobacco suspension cells. In *PLANTA*. ISSN 0032-0935, 2013, vol. 238, no. 4, pp. 727., WOS
- [1.1] LARGO-GOSENS, Asier - HERNANDEZ-ALTAMIRANO, Mabel - GARCIA-CALVO, Laura - ALONSO-SIMON, Ana - ALVAREZ, Jesus -

- ACEBES, Jose L. Fourier transform mid infrared spectroscopy applications for monitoring the structural plasticity of plant cell walls. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2014, vol. 5, no., pp., WOS
- [1.1] LI, Lianzhen - LIU, Xiaoli - PEIJNENBURG, Willie J. G. M. - ZHAO, Jianmin - CHEN, Xiaobing - YU, Junbao - WU, Hufeng. Pathways of cadmium fluxes in the root of the halophyte *Suaeda salsa*. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, 2012, vol.75, no., 1., WOS
- [1.1] LOMBARDO, M. C. - LAMATTINA, L. Nitric oxide is essential for vesicle formation and trafficking in *Arabidopsis* root hairgrowth. In JOURNAL OF EXPERIMENTAL BOTANY, 2012, vol.63, no.13, 4875., WOS
- [1.1] MANOLI, Alessandro - BEGHELDI, Maura - GENRE, Andrea - LANFRANCO, Luisa - TREVISAN, Sara - QUAGGIOTTI, Silvia. NO homeostasis is a key regulator of early nitrate perception and root elongation in maize\*. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2014, vol. 65, no. 1, pp. 185., WOS
- [1.1] SERRANO, Irene - ROMERO-PUERTAS, Maria C. - RODRIGUEZ-SERRANO, Maria - SANDALIO, Luisa M. - OLMEDILLA, Adela. Peroxynitrite mediates programmed cell death both in papillar cells and in self-incompatible pollen in the olive (*Olea europaea* L.). In JOURNAL OF EXPERIMENTAL BOTANY, 2012, vol.63, no.3, 1479., WOS
- [1.1] SIROVA, Jana - SEDLAROVA, Michaela - PITERKOVA, Jana - LUHOVA, Lenka - PETRIVALSKY, Marek. The role of nitric oxide in the germination of plant seeds and pollen. In PLANT SCIENCE, 2011, vol.181, no.5, 560-572., WOS
- [1.1] STEINHORST, Leonie - KUDLA, Joerg. Calcium a central regulator of pollen germination and tube growth. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. ISSN 0167-4889, 2013, vol. 1833, no. 7, pp. 1573., WOS
- [1.1] TRAVERSO, Jose A. - PULIDO, Amada - RODRIGUEZ-GARCIA, Maria I. - ALCHE, Juan D. Thiol-based redox regulation in sexual plant reproduction: new insights and perspectives. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS
- [1.1] ZHANG, Li-li - ZHU, Shu-hua - CHEN, Chang-bao - ZHOU, Jie. Metabolism of endogenous nitric oxide during growth and development of apple fruit. In SCIENTIA HORTICULTURAE, 2011, vol.127, no.4, 500-506., WOS
- [1.1] ZHANG, Long - CHEN, Zhen - ZHU, Cheng. Endogenous nitric oxide mediates alleviation of cadmium toxicity induced by calcium in rice seedlings. In JOURNAL OF ENVIRONMENTAL SCIENCES-CHINA, 2012, vol.24, no.5, 940., WOS

ADCA192 WU, Xiaoqin - CHEN, T. - ZHENG, Maozhong - CHEN, Yanmei - TENG, Nianjun - ŠAMAJ, Jozef - BALUŠKA, František - LIN, Jinxing. Integrative proteomic and cytological analysis of the effects of extracellular Ca(2+) influx on *Pinus bungeana* pollen tube development. In *Journal of Proteome Research*, 2008, vol. 7, no. 10, p. 4299-4312. (5.675 - IF2007). (2008 - Current Contents). ISSN 1535-3893.

Ohlasy:

- [1.1] ABRIL, Nieves - GION, Jean-Marc - KERNER, Rene - MUELLER-STARCK, Gerhard - NAVARRO CERRILLO, Rafael M. - PLOMION, Christophe - RENAUT, Jenny - VALLEDOR, Luis -

- JORRIN-NOVO, Jesus V. Proteomics research on forest trees, the most recalcitrant and orphan plant species. In *PHYTOCHEMISTRY*, 2011, vol.72, no.10, 1219-1242., WOS
- [1.1] DAI, Shaojun - CHEN, Sixue. Single-cell-type Proteomics: Toward a Holistic Understanding of Plant Function. In *Molecular & Cellular Proteomics*, 2012, vol. 11, no. 12, pp. 1622. ISSN 1535-9476., WOS
- [1.1] HUANG, Jong-Chin - CHANG, Liang-Chi - WANG, Min-Long - GUO, Cian-Ling - CHUNG, Mei-Chu - JAUAH, Guang-Yuh. Identification and Exploration of Pollen Tube Small Proteins Encoded by Pollination-Induced Transcripts. In *PLANT AND CELL PHYSIOLOGY*, 2011, vol.52, no.9, 1546-1559., WOS
- [1.1] ISCHEBECK, Till - VALLEDOR, Luis - LYON, David - GINGL, Stephanie - NAGLER, Matthias - MEIJON, Monica - EGELHOFER, Volker - WECKWERTH, Wolfram. Comprehensive Cell-specific Protein Analysis in Early and Late Pollen Development from Diploid Microsporocytes to Pollen Tube Growth. In *Molecular & Cellular Proteomics*, 2014, vol. 13, no. 1, pp. 295. ISSN 1535-9476., WOS
- [1.1] KANCHISWAMY, Chidananda Nagamangala - MALNOY, Mickael - OCCHIPINTI, Andrea - MAFFEI, Massimo E. Calcium Imaging Perspectives in Plants. In *International Journal of Molecular Sciences*, 2014, vol. 15, no. 3, pp. 3842. ISSN 1422-0067., WOS
- [1.1] RAFINSKA, Katarzyna - SWIDZINSKI, Michal - BEDNARSKA-KOZAKIEWICZ, Elzbieta. Homogalacturonan deesterification during pollen-ovule interaction in *Larix decidua* Mill.: an immunocytochemical study. In *Planta*, 2014, vol. 240, no. 1, pp. 195. ISSN 0032-0935., WOS
- [1.1] ZHANG, Fengjiao - WANG, Zhiqian - DONG, Wen - SUN, Chunqing - WANG, Haibin - SONG, Aiping - HE, Lizhong - FANG, Weimin - CHEN, Fadi - TENG, Nianjun. Transcriptomic and proteomic analysis reveals mechanisms of embryo abortion during chrysanthemum cross breeding. In *Scientific Reports*, 2014, vol. 4. ISSN 2045-2322., WOS
- [1.1] ZHAO, Xin - YANG, Ning - WANG, Tai. Comparative Proteomic Analysis of Generative and Sperm Cells Reveals Molecular Characteristics Associated with Sperm Development and Function Specialization. In *Journal of Proteome Research*, 2013, vol. 12, no. 11, pp. 5058. ISSN 1535-3893., WOS

ADCA193 XU, Chunyang - ZHAO, Lu - PAN, Xiao - ŠAMAJ, Jozef. Developmental Localization and Methylesterification of Pectin Epitopes during Somatic Embryogenesis of Banana (*Musa* spp. AAA). In *PLoS ONE*, 2011, vol. 6, no. 8, p. e22992. (4.411 - IF2010). (2011 - Current Contents, MEDLINE). ISSN 1932-6203.

Ohlasy:

- [1.1] CARNEIRO, Rene G. S. - OLIVEIRA, Denis C. - ISAIAS, Rosy M. S. Developmental anatomy and immunocytochemistry reveal the neo-ontogenesis of the leaf tissues of *Psidium myrtoides* (Myrtaceae) towards the globoid galls of *Nothotriozia myrtoidis* (Triozidae). In *PLANT CELL REPORTS*. ISSN 0721-7714, 2014, vol. 33, no. 12, pp. 2093., WOS
- [1.1] DOMOZYCH, David S. - SORENSEN, Iben - POPPER, Zoe A. - OCHS, Julie - ANDREAS, Amanda - FANGEL, Jonatan U. - PIELACH, Anna - SACKS, Carly - BRECHKA, Hannah - RUISI-BESARES, Pia - WILLATS, William G. T. - ROSE, Jocelyn K. C. Pectin Metabolism and Assembly in the Cell Wall of the Charophyte Green Alga *Penium margaritaceum*. In *PLANT*

- PHYIOLOGY. ISSN 0032-0889, 2014, vol. 165, no. 1, pp. 105., WOS
- [1.1] FORMIGA, Anete Teixeira - DE OLIVEIRA, Denis Coelho - FERREIRA, Bruno Garcia - MAGALHAES, Thiago Alves - DE CASTRO, Ariane Chagas - WILSON FERNANDES, G. - DOS SANTOS ISAIAS, Rosy Mary. The role of pectic composition of cell walls in the determination of the new shape-functional design in galls of Baccharis reticularia (Asteraceae). In PROTOPLASMA. ISSN 0033-183X, 2013, vol. 250, no. 4, pp. 899., WOS
- [1.1] GRIFFITHS, Jonathan S. - TSAI, Allen Yi-Lun - XUE, Hui - VOINICIUC, Catalin - SOLA, Kresimir - SEIFERT, Georg J. - MANSFIELD, Shawn D. - HAUGHN, George W. SALT-OVERLY SENSITIVE5 Mediates Arabidopsis Seed Coat Mucilage Adherence and Organization through Pectins. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2014, vol. 165, no. 3, pp. 991., WOS
- [1.1] PILARSKA, Maria - KNOX, J. Paul - KONIECZNY, Robert. Arabinogalactan-protein and pectin epitopes in relation to an extracellular matrix surface network and somatic embryogenesis and calllogenesis in Trifolium nigrescens Viv. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2013, vol. 115, no. 1, pp. 35., WOS
- [1.1] PILARSKA, Maria - POPIELARSKA-KONIECZNA, Marzena - SLESAK, Halina - KOZIERADZKA-KISZKURNO, Małgorzata - GORALSKI, Grzegorz - KONIECZNY, Robert - BOHDANOWICZ, Jerzy - KUTA, Elzbieta. Extracellular matrix surface network is associated with non-morphogenic calli of Helianthus tuberosus cv. Albik produced from various explants. In ACTA SOCIETATIS BOTANICORUM POLONIAE. ISSN 0001-6977, 2014, vol. 83, no. 1, pp. 67., WOS
- [1.1] SALA, K. - POTOCKA, I. - KURCZYNSKA, E. Spatio-temporal distribution and methyl-esterification of pectic epitopes provide evidence of developmental regulation of pectins during somatic embryogenesis in Arabidopsis thaliana. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2013, vol. 57, no. 3, pp. 410., WOS
- [1.1] VOINICIUC, Catalin - DEAN, Gillian H. - GRIFFITHS, Jonathan S. - KIRCHSTEIGER, Kerstin - HWANG, Yeen Ting - GILLETT, Alan - DOW, Graham - WESTERN, Tamara L. - ESTELLE, Mark - HAUGHN, George W. FLYING SAUCER1 Is a Transmembrane RING E3 Ubiquitin Ligase That Regulates the Degree of Pectin Methylesterification in Arabidopsis Seed Mucilage. In PLANT CELL. ISSN 1040-4651, 2013, vol. 25, no. 3, pp. 944., WOS

ADCA194 ZIEGENHAGEN, B. - SCHAUERTE, M. - KORMUŤÁK, Andrej - SCHOLZ, F. Plastid DNA polymorphism of megagametophytes and pollen in two Abies species. In *Silvae Genetica*, 1996, vol.45, no.5-6, p. 355-358. ISSN 0037-5349.

Ohlasy:

- [1.1] HASEGAWA, Yoichi - SUYAMA, Yoshihisa - SEIWA, Kenji. Difference in Pollen Donor Composition During the Early Phases of Reproduction as Revealed by DNA Analysis of Pollen Grains and Seeds in the Monoecious Tree Castanea crenata. In SINGLE-POLLEN GENOTYPING, 2011, vol., no., 33-46., WOS
- [1.1] SUYAMA, Yoshihisa. Procedure for Single-Pollen Genotyping. In SINGLE-POLLEN GENOTYPING, 2011, vol., no., 7-15., WOS

**ADDA Scientific papers in domestic journals registered in Current Contents Connect with IF (impacted)**

ADDA01 HŘIB, Jiří - VOOKOVÁ, Božena - SALAJ, Terézia - BOLVANSKÝ, Milan - FLÁK, Pavel. Testing of embryogenic and non-embryogenic calli of European pine (*Pinus nigra* Arn.) for defense reactions to the fungus *Phaeolus schweinitzii*. In *Biologia*, 1995, vol. 50, no. 4, s. 403-410. ISSN 1335-6372.

Ohlasy:

[1.1] NAWROT-CHORABIK, Katarzyna - JANKOWIAK, Robert - GRAD, Bartomiej. Growth of two blue-stain fungi associated with Tetropium beetles in the presence of callus cultures of *Picea abies*. In *DENDROBIOLOGY*, 2011, vol.66, no., 41., WOS

[1.1] NAWROT-CHORABIK, K. Interactions between embryogenic callus of *Abies alba* and *Heterobasidion* spp. in dual cultures. In *BIOLOGIA PLANTARUM*. ISSN 0006-3134, 2014, vol. 58, no. 2, pp. 363., WOS

ADDA02 KORMUŤÁK, Andrej - LEE, S. W. - HONG, K. N. - YANG, B. H. - HONG, Y. P. Crossability relationships between Korean firs *Abies koreana*, *A. nephrolepis* and *A. holophylla* and some other representatives of the genus *Abies*. In *Biologia*, 2008, vol. 63 no.1, p. 94-99. (0.207 - IF2007). (2008 - Current Contents, SCOPUS). ISSN 0006-3088.

Ohlasy:

[1.1] AGUIRRE-PLANTER, Erika - JARAMILLO-CORREA, Juan P. - GOMEZ-ACEVEDO, Sandra - KHASA, Damase P. - BOUSQUET, Jean - EGUILARTE, Luis E. Phylogeny, diversification rates and species boundaries of Mesoamerican firs (*Abies*, Pinaceae) in a genus-wide context. In *MOLECULAR PHYLOGENETICS AND EVOLUTION*. ISSN 1055-7903, 2012, vol. 62, no. 1, pp. 263., WOS

[1.1] SEMERIKOVA, S. A. - SEMERIKOV, V. L. Mitochondrial DNA variation and reticulate evolution of the genus *Abies*. In *RUSSIAN JOURNAL OF GENETICS*. ISSN 1022-7954, 2014, vol. 50, no. 4, pp. 366., WOS

[1.1] VASILYEVA, G. V. - GOROSHKEVICH, S. N. Crossability of *Pinus sibirica* and *P. pumila* with their hybrids. In *SILVAE GENETICA*. ISSN 0037-5349, 2013, vol. 62, no. 1-2, pp. 61., WOS

ADDA03 LIBANTOVÁ, Jana - BAUER, Miroslav - MLYNÁROVÁ, Ludmila - MORAVČÍKOVÁ, Jana - MATUŠÍKOVÁ, Ildikó. Transgenic tobacco and potato plants expressing basic vacuolar beta-1,3-glucanase from *Nicotiana plumbaginifolia*. In *Biologia : journal of the Slovak Academy of Science*, 1998, vol. 53, no. 6, p. 739-748. (0.283 - IF1997). (1998 - Current Contents). ISSN 0006-3088.

Ohlasy:

[1.1] ARORA, R. K. - SHARMA, Sanjeev - GOYAL, A - MANOHARACHARY, C. Pre and Post Harvest Diseases of Potato and Their Management. In *FUTURE CHALLENGES IN CROP PROTECTION AGAINST FUNGAL PATHOGENS*. ISSN 2198-7777, 2014, vol., no., pp. 149., WOS

[3.1] Arora, R. K. - Sharma, Sanjeev. Pre and Post Harvest Diseases of Potato and Their Management In *FUTURE CHALLENGES IN CROP PROTECTION AGAINST FUNGAL PATHOGENS* Book Series: Fungal Biology-US, 2014, p. 149-183.

ADDA04 LIBIAKOVÁ, Gabriela - GAJDOŠOVÁ, Alena - VOOKOVÁ, Božena - KUBINCOVÁ, M. - DOLEŽEL, J. Karyological study of *Abies concolor* x *Abies grandis* calli and shoots regenerated in vitro. In *Biológia*, 1995, vol. 50, no. 1, p. 61-64. ISSN 0006-3088.

Ohlasy:

- [1.1] RAZIK, M. M. - SAMSUL KAMAL, R. - TARMIZI, A. H. - NULIT, R. - MADON, M. ANALYSIS OF OIL PALM CLONES, THEIR SUSPENSION CALLI AND REGENERANTS VIA FLOW CYTOMETRY (FCM) AND rDNA-FLUORESCENCE *in situ* HYBRIDISATION (rDNA-FISH). In JOURNAL OF OIL PALM RESEARCH. ISSN 1511-2780, 2013, vol. 25, no. 3, pp. 357., WOS
- [1.1] SINGH, Mithilesh - CHATURVEDI, Rakhi. Screening and quantification of an antiseptic alkylamide, spilanthol from in vitro cell and tissue cultures of *Spilanthes acmella* Murr. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2012, vol. 36, no. 1, pp. 321., WOS
- [3] Singh, M. - Chaturvedi, R., Screening and quantification of an antiseptic alkylamide, spilanthol from in vitro cell and tissue cultures of *Spilanthes acmella* Murr. In Industrial Crops and Products. 2012, vol.36, no. 1, p. 321-328.

ADDA05 MATUŠÍKOVÁ, Ildikó - LIBANTOVÁ, Jana - MORAVČÍKOVÁ, Jana - MLYNÁROVÁ, Ľudmila - NAP, Jan Peter. The insectivorous sundew (*Drosera rotundifolia*, L.) might be a novel source of PR genes for biotechnology. In *Biologia : journal of the Slovak Academy of Sciences*, 2004, vol. 59, no. 6, p. 719-725. (0.183 - IF2003). (2004 - Current Contents). ISSN 0006-3088.

Ohlasy:

- [1.1] RENNER, Tanya - SPECHT, Chelsea D. Inside the trap: gland morphologies, digestive enzymes, and the evolution of plant carnivory in the Caryophyllales. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2013, vol. 16, no. 4, pp. 436., WOS
- [3] Reddy, P.P. Pathogenesis-related protein. In Recent advances in crop protection. Springer, Heidelberg, ISBN 978-81-322-0722-1, 2013, pp. 245-252.

ADDA06 MORAVČÍKOVÁ, Jana - LIBANTOVÁ, Jana - MATUŠÍKOVÁ, Ildikó - LIBIAKOVÁ, Gabriela - NAP, Ján Peter - MLYNÁROVÁ, Ľudmila. Genetic transformation of Slovak cultivar of potato (*Solanum tuberosum* L.): efficiency and the behaviour of the transgene. In *Biologia : journal of the Slovak Academy of Science*, 1998, vol. 53, no. 6, p. 739-748. (0.283 - IF1997). (1998 - Current Contents). ISSN 0006-3088.

Ohlasy:

- [3] Saker, M.M. – Moussa, T.A.A. – Heikal, N.Z. – ELLI, A.H.A.A. – Abdel-Rahman, R.M.H. Selection of an efficient in vitro micropropagation and regeneration system for potato (*Solanum tuberosum* L.) cultivar Desirée. African Journal of Biotechnology 2012, 11(98): 1638888-16404.

ADDA07 NAHALKOVÁ, J. - HŘIB, Jiří - GEMEINER, P. - VOOKOVÁ, Božena - CHRTIANSKY, J. Lectin-like activity in European black pine (*Pinus nigra*) seed protein bodies. In *Biológia*, 1999, vol. 54, no. 1, p. 113-117. ISSN 1335-6372.

Ohlasy:

- [1.1] MATARUGA, Milan - ISAJEV, Vasilije - KONSTANTINOV, Kosana

- MLAĐENOVIC-DRINIC, Snezana - BALLIAN, Dalibor. Proteins as Gene Markers of Tolerance to Drought in Austrian Pine (*Pinus nigra* ARNOLD). In PHYTON-ANNALES REI BOTANICAE. ISSN 0079-2047, 2012, vol. 52, no. 2, pp. 263., WOS

ADDA08 OSTROLUCKÁ, Mária-Gabriela - BOLVANSKÝ, Milan - TOKÁR, Ferdinand. Vitality of pine pollen (*Pinus sylvestris* L. and *Pinus nigra* ARNOLD) on sites with different ecological conditions. In *Biologia : journal of the Slovak Academy of Science*, 1995, vol. 50, no. 1, p. 47-51. (0.043 - IF1994). (1995 - Current Contents, WOS). ISSN 0006-3088.

Ohlasy:

[1.1] MUSZYNSKA, Ewa - HANUS-FAJERSKA, Ewa - CIARKOWSKA, Krystyna. Evaluation of Seed Germination Ability of Native Calamine Plant Species on Different Substrata. In POLISH JOURNAL OF ENVIRONMENTAL STUDIES. ISSN 1230-1485, 2013, vol. 22, no. 6, pp. 1775., WOS

ADDA09 PIRŠELOVÁ, Beáta - MISTRÍKOVÁ, Veronika - LIBANTOVÁ, Jana - MORAVČÍKOVÁ, Jana - MATUŠÍKOVÁ, Ildikó. Study on metal-triggered callose deposition in roots of maize and soybean. In *Biologia*, 2012, vol. 67, no. 4, p. 698-705. (0.557 - IF2011). (2012 - Current Contents). ISSN 0006-3088.

Ohlasy:

[1.1] FAHR, Mouna - LAPLAZE, Laurent - BENDAOU, Najib - HOCHER, Valerie - EL MZIBRI, Mohamed - BOGUSZ, Didier - SMOUNI, Abdelaziz. Effect of lead on root growth. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS

[1.1] SAGER, Ross - LEE, Jung-Youn. Plasmodesmata in integrated cell signalling: insights from development and environmental signals and stresses. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2014, vol. 65, no. 22, pp. 6337., WOS

[3] Bilska, A. Regulation of intercellular transport through plasmodesmata under abiotic stresses. In Symplastic Transport in Vascular Plants, Springer New York, ISBN 978-1-4614-7764-8, 2013, pp. 83-100.

[3] Fahr, M.- Laplaze, L.- Bendaou, N.- Hocher, V.- El Mzibri, M.- Bogusz, .- Smouni, A. Effect of lead on root growth. In Frontiers in Plant Science, 2013, ISSN 1664-462X, no.4, pp.175.

ADDA10 TAKÁČ, Tomáš - LUXOVÁ, Miroslava - GAŠPARÍKOVÁ, Otília. Cold induced changes in antioxidant enzymes activity in roots and leaves of two maize cultivars. In *Biologia : section botany*. - Bratislava : Slovak Academic Press, 1994-2005, 2003, vol. 58, no. 4, p. 875-880. ISSN 1335-6372.

Ohlasy:

[1.1] GEORGIEVA, E. - PETROVA, D. - YORDANOVA, Z. - KAPCHINA-TOTEVA, V. - CELLAROVA, E. - CHANEVA, G. Influence of cryopreservation on the antioxidative activity of in vitro cultivated *Hypericum* species. In Biotechnology & Biotechnological Equipment, 2014, vol. 28, no. 5, p. 863-870. ISSN 1310-2818., WOS

[1.1] RASOOL, S. - SINGH, S. - HASANUZZAMAN, M. - REHMAN, M.U. - AZOOZ, M.M. - LONE, H.A. - AHMAD, P. Plant Resistance under Cold Stress: Metabolomics, Proteomics, and Genomic Approaches. In Emerging

Technologies and Management of Crop Stress Tolerance, Vol.1: Biological Techniques, 2014, p. 79-98., WOS

ADDA11 VOOKOVÁ, Božena - KORMUTÁK, Andrej. Improved plantlet regeneration from open-pollinated families of Abies alba trees of Dobroč primeval forest and adjoining managed stand via somatic embryogenesis. In *Biologia : journal of the Slovak Academy of Science*, 2009, vol.64, no.6, p.1136-1140. (0.406 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0006-3088.

Ohlasy:

- [1.1] Krajnakova, J. - Bertolini, A.- Zoratti, L.- Gomory, D.- Haggman, H.- Vianello, A. Changes in ATP, glucose-6-phosphate and NAD(P)H cellular levels during the proliferation and maturation phases of Abies alba Mill. embryogenic cultures . In TREE PHYSIOLOGY, 2013, Vol. 33, Iss. 10, p. 1099-1110., WOS
- [1.1] Krajnakova, J.- Bertolini, A.- Gomory, D.-Vianello, A.- Haggman, H. Initiation, long-term cryopreservation, and recovery of Abies alba Mill. embryogenic cell lines. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT, 2013, Vol. 49, Iss.5, p. 560-571., WOS
- [1.1] SALAJ, Terezia - FRATEROVA, Lenka - CARACH, Martin - SALAJ, Jan. The effect of culture medium formulation on Pinus nigra somatic embryogenesis. In DENDROBIOLOGY. ISSN 1641-1307, 2014, vol. 71, no., pp. 119., WOS
- [1.2] SALAJ, Terézia - FRÁTEROVÁ, Lenka - CÁRACH, Martin - SALAJ, Ján. Somatic embryogenesis: Method for vegetative reproduction of conifers. In Folia Oecologica. ISSN 13365266, 2013-12-01, 40, 2, pp. 251-255., SCOPUS

ADDA12 ZUR, I. - GOLEBIOWSKA, G. - DUBAS, E. - GOLEMIEC, E. - MATUŠÍKOVÁ, Ildikó - LIBANTOVÁ, Jana - MORAVČÍKOVÁ, Jana. β-1,3-glucanase and chitinase activities in winter triticales during cold hardening and subsequent infection by Microdochium nivale. In *Biologia*, 2013, vol. 68, no. 2, p. 241-248. (0.506 - IF2012). (2013 - Current Contents). ISSN 0006-3088.

Ohlasy:

- [1.1] Cletus, J - Balasubramanian, V - Vashisht, D - Sakthivel, N. Transgenic expression of plant chitinases to enhance disease resistance. In BIOTECHNOLOGY LETTERS, ISSN 0141-5492, 2013, vol.35, no.11, p.1719-1732., WOS

#### ADEB Scientific papers in other foreign journals not registered in Current Contents Connect without IF (non-impacted)

ADEB01 GAJDOŠOVÁ, Alena - OSTROLUCKÁ, Mária-Gabriela - LIBIAKOVÁ, Gabriela - ONDRUŠKOVÁ, Emília - ŠIMALA, Daniel. Microclonal propagation of Vaccinium sp. and Rubus sp. and detection of genetic variability in culture in vitro. In *Journal of Fruit and Ornamental Plant Research*, 2006, vol. 14, suppl. 1, p. 61-76. ISSN 1231-0948.

Ohlasy:

- [1.1] SEDLÁK, J. - PAPRŠTEIN, F. Micropropagation of cranberry (Vaccinium macrocarpon ) through shoot tip culture - Short communication.In Horticultural science. ISSN 0862-867X, 2011, vol. 38, no. 4, p. 159-162., WOS
- [3] CLAPA, D. - FIRA, A. - VESCAN, L.A. Aspects regarding the in vitro culture and ex vitro rooting in Vaccinium macrocarpon cultivar 'Pilgrim'. In Bulletin UASVM Animal Science and Biotechnologies. 2012, vol. 69, no.1-2, p.

226-234, ISSN 1843-5262.

- [3] FIRA, A. - CLAPA, D. – VESCAN, LA. Direct ex Vitro Rooting and Acclimation in Blackberry Cultivar 'Loch Ness'. In Bulletin UASVM Animal Science and Biotechnologies, 2012, vol. 69, no.1-2, p. 247-254, ISSN 1843-5262.
- [3] FIRA, A. – CLAPA, D. - RAKOSY –TICAN, E. In vitro propagation of the thornless blackberry cultivar 'Loch Ness'. In Bulletin UASVM Horticulture, 2011, vol. 68, no. 1, p. 39-46. ISSN 1843-5254.
- [3] VESCAN, L.A. - PAMFIL, D. - CLAPA, D. - FIRA, A. - SISEA, C.R. - POP, I.F. - PETRICELE, I.V. - CIUZAN, O. – POP, R. Efficient micropagation protocol for highbush blueberry (*Vaccinium corymbosum* L.) cv. 'Elliot'. In Romanian Biotechnological Letters, 2012, vol. 17, no. 1, ISSN 6893-6902.
- [3.1] Fira, A. - Clapa, D. – Simu, M. Studies regarding the micropagation of some blackberry cultivars. In Bulletin UASVM Horticulture, 2014, vol. 71, no.1, pp. 29-37.
- [3.1] Źróbek-Sokolnik, A. - Dynowski, P. – Hołdyński, C. In vitro callus and shoot organogenesis from leaf and stem explants of *Chamaedaphne calyculata*. In Dendrobiology, 2014, 72, pp. 85-92.

ADEB02     HAJDUCH, Martin - DEBRE, F. - BOHMOVÁ, B. - DOLEŠOVÁ, P. -  
PREŤOVÁ, Anna. Two soybean mutants with increased total and sulphur amino acids content induced by sodium azide. In *Journal of Genetics & Breeding*, 2000, vol. 54, no. 2, p. 83-87. ISSN 0394-9257.

Ohlasy:

- [3.1] Mundhe, B. F. EMS and Gamma Rays Induced Oil Content in Soybean (*Glycine max*. L.). In Advances in Plant Sciences 27, pp. 205-206 (2014).

ADEB03     ILIEV, I. - SCALTZOYIANNES, A. - TSAKTSIRA, M. - GAJDOŠOVÁ, Alena. Micropropagation of *Betula pendula* Roth cultivars by adventitious shoot induction from leaf callus. In *ISHS Acta Horticulturae* 885. - 2010, p. 161-173.  
ISBN 978-90-66056-63-3.

Ohlasy:

- [1.2] LI, Naiwei - SHU, Xiaochun - TANG, Shijie - TANG, Gengguo - LU, Xiaoqing. In vitro propagation of Nanjing linden (*Tilia miqueliana* Maxim.). In Propagation of Ornamental Plants. ISSN 13119109, 2013-12-01, 13, 4, pp. 168-173., SCOPUS
- [1.2] ŠEDIVÁ, Jana. In vitrorot formation in *Pulsatilla vernalis* (L.) Mill. In Propagation of Ornamental Plants. ISSN 13119109, 2012-12-01, 12, 2, pp. 96-101., SCOPUS

ADEB04     OSTROLUCKÁ, Mária-Gabriela - LIBIAKOVÁ, Gabriela - ONDRUŠKOVÁ, Emília - GAJDOŠOVÁ, Alena. In vitro propagation of *Vaccinium* species. In *Acta Universitatis Latviensis.Biology*, 2004, vol. 676, p. 207-212. ISBN 9984-770-31-1.  
ISSN 1407-2157.

Ohlasy:

- [1.1] SEDLÁK, J. - PAPRŠTEIN, F. Micropropagation of cranberry (*Vaccinium macrocarpon*) through shoot tip culture - Short communication. In Horticultural science. ISSN 0862-867X, 2011, vol. 38, no. 4, p. 159-162., WOS
- [1.2] Pereira, M.J. Germplasm selection and breeding by in vitro culture of wild grown azorean blueberry (*Vaccinium cylindraceum*) at São Miguel Island.

In Acta Horticulturae 2014, 1017, 169-176.

- [3] Al-Taleb, M.M.- Hassawi, D.S. - Abu-Romman, S.M. Production of virus free potato plants using meristem culture from cultivars grown under Jordanian environment. In American-Eurasian J. Agric. & Environ. Sci., 2011, vol. 11, no.4, p. 467-472, ISSN 1818-6769.
- [3] Castro-Restrepo, D. – Álvarez-Guzmán, J.A. Clonal micropropagation of three genotypes of mortino, Vaccinium meridionale SW., by axillary shoots proliferation. In Actual Biol 2013, vol. 35, no.99, p. 135-144.
- [3] Ciuzan, O. – Pop, R. Efficient micropropagation protocol for highbush blueberry (Vaccinium corymbosum L.) cv. ‘Elliot’. In Romanian Biotechnological Letters, 2012, vol. 17, no. 1, p. 6893-6902.
- [3] CLAPA, D. - FIRA, A. - VESCAN, L.A. Aspects regarding the in vitro culture and ex vitro rooting in Vaccinium macrocarpon cultivar 'Pilgrim'. In Bulletin UASVM Animal Science and Biotechnologies.2012, vol.69, no.1-2, p. 226-234. ISSN 1843-5262.
- [3] Cüce, M. - BektaŞ, E. - Sökmen, A. Micropropagation of Vaccinium arctostaphylos L. via lateral-bud culture. In Turkish Journal of Agriculture and Forestry, 2013, vol. 37, no.1, p. 40-44.
- [3] Dakah, A. – Suleiman, M. – Zaid, S. Effect of some environmental stress in tissue culture media on in vitro propagation and antioxidant activity of medicinal plant Ziziphora canescens Benth. In Advances in Natural and Applied Sciences, 2014, vol. 8 (4): 224-232.
- [3] Dar, Ch.T. - Abdullah, J.O. - Namasivayam, P. – Roowi, S.H. Sterilization of Hibiscus rosa-sinensis L. vegetative explants sourced from plants grown in open environment and influences of organic ingredients on in vitro direct regeneration. In American Journal of Plant Sciences, 2012, vol. 3, p. 791-798, Published Online June 2012 (<http://www.SciRP.org/journal/ajps>).
- [3] Marković, M. - Grbić, M. – Djukić, M. Micropropagation of the endangered and decorative specie Dianthus serotinus Waldst. In Not Bot Horti Agrobo, 2013, vol. 41, no. 2, p. 370-377.
- [3] Santiago, J.P. - Smagula, J.M. Effects of nitrogen form and ratio on in vitro shoot multiplication and growth of Lowbush blueberry (Vaccinium angustifolium Ait.). In Acta Horticulturae, 2013, 988: 129-136.
- [3] Shahina Parveen - Anwar Shahzad. Factors affecting in vitro plant regeneration from cotyledonary node explant of Senna sophera (L.) Roxb. - A highly medicinal legume. In African Journal of Biotechnology 2014, vol. 13, no.3, pp.413-422.
- [3] Vujovic, T. - Cerovic, R. - Ruzic, Dj. Ploidy level stability of adventitious shoots of sour cherry 'aanski Rubin' and Gisela 5 cherry rootstock. In Plant Cell Tissue And Organ Culture, 2012, vol. 111, no. 3, p. 323-333.
- [3.1] LIVIU ADRIAN VESCAN, L.A. - PAMFIL, D. - CLAPA, D. - FIRA, A. - SISEA, C.R. - POP, I.F. - PETRICELE, I.V. - CIUZAN, O. – POP, R. Efficient micropropagation protocol for highbush blueberry (Vaccinium corymbosum L.) cv. ‘Elliot’. In Romanian Biotechnological Letters, 2012, vol. 17, no. 1, p. 6893-6902.

ADEB05     OSTROLUCKÁ, Mária-Gabriela - GAJDOŠOVÁ, Alena - ONDRAŠKOVÁ, Emília - LIBIAKOVÁ, Gabriela. In vitro propagation of several Vaccinium corymbosum L. and Vaccinium vitis-idaea L. cultivars. In *Latvian Journal of Agronomy*, 2009, no.12, p.75-80. ISSN 1691-3485.

Ohlasy:

- [3.1] Kudryashova, O.A. – Volotovich, A.A. – Gerasimovich, T.V. – Arkhipenko, T.A. – Vodchic, M.P. – Sakhvon, E.V. The effects of exogenic auxins on the change of quantitative traits at regenerants of *Vaccinium corymbosum* in vitro. In Proceedings of the National Academy of Sciences of Belarus, Biological Series 2013, vol.3, p. 28-35.
- [3.1] Vordomackaya, D.A. - Mendeleva, V.A. - Kudryashova, O.A. –Volotovich, A.A. Analysis of variability of quantitative traits at «Bluecrop» cultivar of highbush blueberry *Vaccinium corymbosum* L. in vitro. Веснік Палескага дзяржаўнага ўніверсітэта. Серыя прыродазнаўчых науک: научно-практический журнал. Пінск: ПолесГУ, 2013, vol.1, p.24-30.
- [3.1] Божидай, Т.Н. - Кухарчик Н.В. Укоренение *in vitro* голубики сорта Duke. Опыт и перспективы возделывания голубики на территории Беларуси и сопредельных стран. Материалы международной научной конференции. (17–18 июля 2014 г. Минск), 15-21.

ADEB06     OSTROLUCKÁ, Mária-Gabriela - GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela. Influence of zeatin on microclonal propagation of *Vaccinium corymbosum* L. In *Propagation of Ornamental Plants*, 2002, vol. 2, no. 12, p. 14-18. ISSN 1311-9109.

Ohlasy:

- [3.1] Bertsouklis, K.F. - Papafotiou, M. Effect of various cytokinins on micropagation of *Arbutus × Andrachnoides* link. *Acta Hortic.* 2011, 923: 213-218. Escobedo, V. - Escobedo, J.A. Use of individual dark chambers as a method for obtaining etiolated shoots in nurse plants of 'duke' avocado (*Persea americana*). *Acta Hortic.* 2011, 923: 221-225.
- [3.1] Escobedo, V. - Escobedo, J.A. Use of individual dark chambers as a method for obtaining etiolated shoots in nurse plants of 'duke' avocado (*Persea americana*). In *Acta Hortic.* 2011, 923: p. 221-225.
- [3.1] Papafotiou, M. - Trigka, M. - Bertsouklis, K.F. In vitro propagation of *Arbutus × Andrachnoides* Link. from seedling tissues. In *Acta Hortic.* 2013, 990, p. 405-408.

ADEB07     RUŽIČ, Djurdjina - VUJOVIČ, Tatjana - LIBIAKOVÁ, Gabriela - CEROVIČ, Radoslav - GAJDOŠOVÁ, Alena. Micropropagation in vitro of highbush blueberry (*Vaccinium corymbosum* L.). In *Journal of Berry Research*, 2012, vol.2, no.2, p. 97-103. ISSN 1878-5093.

Ohlasy:

- [1.2] PEREIRA, M. J. Germplasm selection and breeding by in vitro culture of wild grown azorean blueberry (*vaccinium cylindraceum*) at São miguel island. In *Acta Horticulturae*. ISSN 05677572, 2014-01-13, 1017, pp. 169-176., SCOPUS

ADEB08     VOOKOVÁ, Božena - KORMUTÁK, Andrej. Plantlet regeneration in *Abies cilicica* Carr. and *Abies cilicica* x *Abies nordmanniana* hybrid via somatic embryogenesis. In *Turkish Journal of Botany*, 2003, vol. 27, no. 2, p. 71-76. ISSN 1300-008X.

Ohlasy:

- [1.2] KRAJNÁKOVÁ, J. - NIEMI, K. - GÖMÖRY, D. - HÄGGMAN, H. Effects of different ectomycorrhizal fungi on somatic embryogenesis of *Abies*

cephalonica Loud. In Plant Cell, Tissue and Organ Culture, 2012, 109, 2, pp. 353-361., SCOPUS

**ADFB Scientific papers in other domestic journals not registered in Current Contents Connect without IF (non-impacted)**

ADFB01 MÚDRY, P. - HRICOVÁ, Andrea - LIBIAKOVÁ, Gabriela - GAJDOŠOVÁ, Alena. Methodological approaches to simple enzyme polymorphism analyses of amaranth (Amaranthus sp.). In *Agriculture. Poľnohospodárstvo, Vol.57, no. 1 (2011), p.1-11 : journal for Agricultural Sciences*. ISSN 0551-3677.

Ohlasy:

[3] LABAJOVÁ, MÁRIA – SENKOVÁ, SLAVOMÍRA – ŽIAROVSKÁ, JANA – RAŽNÁ, KATARÍNA – BEŽO, MILAN – ŠTEFÚNOVÁ, VERONIKA – ZELEŇÁKOVÁ, LUCIA. The potential of ISSR markers in amaranth gamma-radiance mutants genotyping. In *Journal of Microbiology, Biotechnology and Food Sciences*, 2011, vol. 1, no. 4, p. 507-521.

[3] Žiarovská, J. - Ražná, K. - Labajová, M. Using of Inter Microsatellite Polymorphism to evaluate gamma-irradiated Amaranth mutants. In *EMIRATES JOURNAL OF FOOD AND AGRICULTURE*, 2013, vol. 25, no.9, p. 673-681.

**ADMA Scientific papers in foreign impacted journals registered in Web of Sciences or Scopus**

ADMA01 KLUBICOVÁ, Katarína - DANCHENKO, Maksym - ŠKULTÉTY, Ľudovít - BEREZHNA, V.V. - UVÁČKOVÁ, Lubica - RASHYDOV, N.M. - HAJDUCH, Martin. Soybeans grown in the Chernobyl area produce fertile seeds that have increased heavy metal resistance and modified. In *PLoS ONE*, 2012, vol. 7, no. 10, p.e 48169 - 11. (4.092 - IF2011). (2012 - MEDLINE). ISSN 1932-6203.

Ohlasy:

[1.1] NATARAJAN, Savithiry - LUTHRIA, Devanand - BAE, Hanhong - LAKSHMAN, Dilip - MITRA, Amitava. Transgenic Soybeans and Soybean Protein Analysis: An Overview. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2013, vol. 61, no. 48, pp. 11736., WOS

[1.2] NATARAJAN, Savithiry S. - LUTHRIA, Devanand L. Current update in methodologies for extraction and analysis of proteins and isoflavones. In *Legumes: Types, Nutritional Composition and Health Benefits*, 2013-12-01, pp. 295-303., SCOPUS

ADMA02 QUESADA, Víctor - SARMIENTO-MAÑÚS, Raguel - GONZÁLEZ-BAYÓN, Rebeca - HRICOVÁ, Andrea - ROSA PONCE, María - LUIS MICOL, José. Porphobilinogen deaminase deficiency alters vegetative and reproductive development and causes lesions in Arabidopsis. In *PLoS ONE*, 2013, vol. 8, no. 1, e53378. (3.730 - IF2012). (2013 - MEDLINE). ISSN 1932-6203.

Ohlasy:

[1.1] CHIN, Kimberley - DEFALCO, Thomas A. - MOEDER, Wolfgang - YOSHIOKA, Keiko. The Arabidopsis Cyclic Nucleotide-Gated Ion Channels AtCNGC2 and AtCNGC4 Work in the Same Signaling Pathway to Regulate Pathogen Defense and Floral Transition. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2013, vol. 163, no. 2, pp. 611., WOS

[1.1] MATEO-BONMATI, Eduardo - CASANOVA-SAEZ, Ruben - CANDELA, Hector - MICOL, Jose Luis. Rapid identification of angulata leaf mutations using next-generation sequencing. In *PLANTA*. ISSN 0032-0935,

2014, vol. 240, no. 5, pp. 1113., WOS

[1.2] CHEKUNOVA, E. M. Genetic control of the chlorophyll metabolism. In Russian Journal of Genetics: Applied Research. ISSN 20790597, 2014-01-01, 4, 5, pp. 351-367., SCOPUS

#### **ADMB Scientific papers in foreign non-impacted journals registered in Web of Sciences or Scopus**

ADMB01 KLUBICOVÁ, Katarína - VESEL, Martin - RASHYDOV, Namik M. - HAJDUCH, Martin. Seeds in Chernobyl: the database on proteome response on radioactive environment. In *Frontiers in Plant Science*, 2012, vol.3, article 231, p.1-3.

Ohlasy:

[1.1] CARROLL, Andrew W. - JOSHI, Hiren J. - HEAZLEWOOD, Joshua L. Managing the green proteomes for the next decade of plant research. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2013, vol. 4, no., pp., WOS

#### **AED Scientific papers in domestic peer-reviewed proceedings, monographs**

AED01 FEJÉR, Jozef - GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela - HRICOVÁ, Andrea. Charakteristika láskavca s ohľadom na možnosti využitia jeho fytomasy na energetické účely. = Characterization of amaranth in regard to utilization of its biomass as alternative energy source. In *Pestovanie a využitie láskavca (Amaranthus L.) a iných plodín na energetické účely..* - Nitra : Slovenská poľnohospodárska univerzita v Nitre, 2011, s. 17-21. ISBN 978-80-552-0561-8.

Ohlasy:

[3.1] Labajová, M - Žiarovská, J - Ražná, K - Lancíková, V. Restriction analyze of starch synthesis genes in amaranth mutant lines. In PAKISTAN JOURNAL OF BIOLOGICAL SCIENCES, 2014, vol. 17, no.1, p. 68-73.

#### **AEE Scientific papers in foreign non peer-reviewed proceedings, monographs**

AEE01 GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela - HUSKA, Jozef. Improvement of selected Amaranthus cultivars by means of mutation techniques and biotechnological approaches. In *Genetic Improvement of Under-utilized and Neglected Crops in Low Income Food Deficit Countries through Irradiation and Related Techniques..* - Vienna : International Atomic Energy Agency, 2004, p. 25-36. ISBN 92-0-113604-8.

Ohlasy:

[3.1] L. Gomez-Pando. Development of improved varieties of native grains through radiation-induced mutagenesis. Chapter 4. In Mutagenesis: exploring novel genes and pathways, 2014, Wageningen Academic Publishers, p. 105-123.

#### **AEF Scientific papers in domestic non peer-reviewed proceedings, monographs**

AEF01 GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela. Breeding programme for cultural species of amaranth. In "New knowledge from genetics and breeding of agricultural crops" : proc. from IXth scientific seminar. - Piešťany, 2002, p.123-124.

Ohlasy:

[3] Labajová, M. – Žiarovská, J. – Ražná, K. – Lancíková, V. Restriction analyze of starch synthesis genes in amaranth mutant lines. In Pakistan Journal of Biological Sciences, 2013, ISSN 1028-8880, 1-6.

[3] Ražná, K. - Žiarovská, J. - Labajová M. Genome changes in mutant

lines of Amaranthus as detected by microsatelite-directed PCR. In ARPN Journal of Agricultural and Biological Science, 2012, vol. 7, no.1, p. 877-884.

[4] LABAJOVÁ, MÁRIA - SENKOVÁ, SLAVOMÍRA - ŽIAROVSKÁ, JANA - RAŽNÁ, KATARÍNA - BEŽO, MILAN - ŠTEFÚNOVÁ, VERONIKA - ZELEŇÁKOVÁ, LUCIA. The potential of ISSR markers in amaranth gamma-radiance mutants genotyping. In Journal of Microbiology, Biotechnology and Food Sciences, 2011: 1 (4) p. 507-521.

#### **AFG Abstracts of papers from foreign conferences**

AFG01 ILIEV, I. - ILIEV, N. - DANCHEVA, D. - CORNEANU, M. - TSAKTSIRA, M. - GAJDOŠOVÁ, Alena - MLADENOVA, S. Factors affecting the rooting of cuttings from cultivars of Chamaecyparis lawsoniana Parl. In *Durable Agriculture – Agriculture of the Future*. - Analele Universitatii din Craiova, 2010, 2010, vol. XL, no.2, p. 174-181.

Ohlasy:

[3.1] Giancarlo, Fasella - Marcello, Militello - Alessandra, Carrubba. PROPAGATION OF ARTEMISIA ARBORESCENS L. BY STEM-CUTTING: ADVENTITIOUS ROOT FORMATION UNDER DIFFERENT CONDITIONS. In Propagation of Ornamental Plants, 2010, vol. 12, no. 3, p. 171-177.

#### **AFHA Abstracts of papers from international conferences in Slovakia**

AFHA01 GAJDOŠOVÁ, Alena - LIBIAKOVÁ, Gabriela - OSTROLUCKÁ, Mária-Gabriela - FEJÉR, Jozef. Mutation breeding in selected Amaranthus spp. In *Amaranth - Plant for the Future: 5th International Symposium of the European Amaranth Association*. - Nitra : Institute of Plant Genetics and Biotechnology SAS, 2008, s. 93. ISBN 978-80-89088-70-6.

Ohlasy:

[3.1] Labajová, M. – Žiarovská, J. – Ražná, K. – Lancíková, V. Restriction analyze of starch synthesis genes in amaranth mutant lines. In Pakistan Journal of Biological Sciences, 2013, ISSN 1028-8880, 1-6.

[3.1] Žiarovská, J. - Ražná, K. - Labajová, M. Using of Inter Microsatellite Polymorphism to evaluate gamma-irradiated Amaranth mutants. In Emir. J. Food Agric. 2013, vol. 25,no.9, p. 673-681.

[3.1] -Ražná, K. - Žiarovská, J. - Labajová M. Genome changes in mutant lines of Amaranthus as detected by microsatelite-directed PCR. In ARPN Journal of Agricultural and Biological Science, 2012, vol. 7,no.1, p. 877-884.

[4.1] Kečkešová, M. – Gálová, Z. – Hricová, A. Changes of protein profiles in amaranth mutant lines. In Journal of Microbiology, Biotechnology and Food Sciences, 2012 (1), p. 1129-1135.

[4.1] LABAJOVÁ, MÁRIA – SENKOVÁ, SLAVOMÍRA - ŽIAROVSKÁ, JANA – RAŽNÁ, KATARÍNA – BEŽO, MILAN – ŠTEFÚNOVÁ, VERONIKA – ZELEŇÁKOVÁ, LUCIA. The potential of ISSR markers in amaranth gamma-radiance mutants genotyping. In Journal of Microbiology, Biotechnology and Food Sciences, 2011: 1 (4), p. 507-521.

#### **BDEB Professional papers in other foreign non- impacted journals (not registered in CCC)**

BDEB01 KAMENICKÁ, Aurélia - KORMUTÁK, Andrej - LANÁKOVÁ, Mária. Establishing micropropagation conditions for three Magnolia species. In *Propagation of Ornamental Plants*, 2001, vol. 1, p.41-45. ISSN 1311-9109.

Ohlasy:

- [3.1] PARRIS, J.K.; TOUCHELL, D. H.; RANNEY, G. T.; ADELBERG, J. Basal salt composition, cytokinins, and phenolic binding agents influence in vitro growth and ex vitro establishment of *Mangolia* 'Ann'. In HortScience, ISSN 2327-9834, 2012, vol. 47, iss. 11, p. 1625-1629.
- [3.1] Sokolov, Rossen S.; Atanassova, Bistra Y.; Iakimova, Elena T. Physiological response of in vitro cultured *Magnolia* Sp. to nutrient medium composition. In JOURNAL OF HORTICULTURAL RESEARCH, ISSN , 2014, vol. 22, iss. 1, p. 49-61.