

Curriculum Vitae

1. Name: Ladislav Roller

2. Office address: Institute of Zoology, Slovak Academy of Sciences, Dúbravská 9, 845 06 Bratislava, Slovak Republic

3. Home address: Hradištná 7, 841 07 Bratislava, Slovenská republika

4. Tel: office 42 7 59302640 **E-mail:** uzaeroll@savba.sk

5. Date and place of birth: 10.12.1969, Bratislava, Czechoslovakia

6. Marital status/ children: married / two

7. Education and qualification:

1984-1988 secondary technical-agricultural school, A-level (Slovak, Russian, poultry breeding, technology of poultry industry, practice examination)

1988-1992 University of Agriculture in Nitra, Faculty of Agronomy, Department of Zoology, graduated engineer of Agriculture (**ing.**) in 1992, with honor.

2000 Comenius University in Bratislava, Faculty of Natural Sciences, philosophiae doctor in zoology (**PhD**), Thesis: Communities of sawflies (Hymenoptera: Symphyta) in different zoogeographic regions of Slovakia

8. Professional employment history:

1992-1993 Institute of Phytopatology and Entomology, Slovak Academy of Sciences, Ivanka pri Dunaji,

1993- Institute of Zoology of Slovak Academy of Sciences, Department of Entomology, study of insect communities (Hymenoptera: Symphyta, Diptera: Sciomyzidae, Tabanidae) using the Malaise traps on different sites of Slovakia, PhD study, since 2000 Postdoc.

1.XI.2000-31.X.2001 – postdoctoral - STA Fellowship, National Institute of Entomological and Sericultural Sciences (Nat. Inst. of Agrobiol. Sci. From 2002), Tsukuba, Ibaraki, Japan: immunohistochemical study on distribution of neuropeptides corazonin and PTSP in insect CNS, cloning of corazonin gene in silkworm *B. mori*

2004 and 2005 – short term stays in Nat. Inst. of Agrobiol. Sci, Tsukuba, Ibaraki, Japan: Analysis of species- and tissue-specific function of neuropeptides in insects. Bilateral project SAV-JSPS

2006 – Institute of Zoology of Slovak Academy of Sciences, Department of Molecular and Applied Zoology. Function of neuropeptides and in insects and ticks. Methods: PCR cloning, in situ hybridization, immunohistochemistry, bioinformatics, insect transgenesis

2015 - Institute of Zoology of Slovak Academy of Sciences, Department of Molecular Physiology

9. Conferences, meetings, workshops, expeditions:

1995- Conference "Hmyz a životné prostredie", Zvolen, Slovakia

1997- Scientific expedition EURUS 97 (Russia, Far East, Ussuri)

1999- Congress of Slovak zoologists, Smolenice, Slovakia

2001- Annual meeting of Jap. Soc. Appl. Ent. Zool., Matsue, Japan

2001- The 14th Naito Conference on Bioactive natural products and their modes of action III, Kanagawa, Japan

2003 – The 17th Seminar of Czech and Slovak Dipterologists, Banská Štiavnica, Slovakia

2004 – Fauna Carpathica Meeting, Smolenice, Slovakia

2005 - NIAS/COE International Symposium, Present status of studies for utilization of insect properties, Tsukuba, Japan

2006 - Blanokřídli v českých zemích a na Slovensku, 2. setkání. Jihočeská Univerzita v Českých Budějovicích, Czech Republic

2007 - Biologically Active Peptides X, Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, Praha

2007 - Blanokřídli v českých zemích a na Slovensku, 3. setkání. Moravské zemské muzeum, Brno, Czech Republic

2008 – IV. Konferencia českých a slovenských hymneopterológov, Kamenný Mlyn - Plavecký Štvrtok, Slovakia

2008 - Konferencia: “Príroda Nízkyh Tatier.”, výročie NAPANTu, hotel Bernard, Liptovský Ján, Slovakia

2009 - “Labudove dni”; conference, Virologický ústav SAV, Bratislava, Slovakia

2009 - 5. Konferencia českých a slovenských hymneopterológov, Frýdek-Místek, Czech Republic

2009 – VIth International Conference on Arthropods: Chemical, Physiological, Botechnological and Environmental Aspects. Ochotnica Dolna, Poland

2010 - 6. Konferencia českých a slovenských hymneopterológov, Mikulov, Czech Republic

2010 - 18th International Ecdysone Workshop, České Budejovice, Czech Republic

2010 - XIII International Congress of Acarology, Recife, Brazil

2011 - II. Labudove dni, conference, Virologický ústav SAV, Bratislava, Slovakia

2011 - VIIth International Conference on Arthropods, Bialka Tatrzańska, Poland

2012 - 8. Konferencia českých a slovenských hymneopterológov, Chaloupky-Třebíčsko, Czech Republic

2012 - 24th International Congress of Entomology - New Era in Entomology, Daegu, South Korea

2013 - III. Labudove dni, conference, Virologický ústav SAV, Bratislava, Slovakia

2013 - 9. Konferencia českých a slovenských hymneopterológov, CHKO Labské pískovce a Českolipsko, Czech Republic

2014 - XXIV. Biochemický zjazd SSBMB a ČSBMB, congress, Bratislava, Slovakia

2015 - Live cell confocal microscopy, new dimension for 21st century (workshop), Gloria Palace, Košice, Slovakia

10. Honors, awards, membership in professional societies:

Slovak Entomological Society SAS, member since 1990, chairman of the Bratislava branch of SES 1995 - 2001, secretary of the SES 2001 - 2010

European Peptide Society since 2002

11. Interests: entomology, photography, basketball

Appendix

Projects

VEGA 2/1139/94 Study of insect assemblages in major zoogeographical units of Slovakia, focusing on species diversity, seasonal dynamics and phenology of model taxonomical groups. Investigator

VEGA 2/4040/97 Distribution and bionomy of model groups of animals, analysis and synthesis of published data and their utilization for edition of monographs named "Fauna Slovenska". Investigator

VEGA 2/7025/99 Investigator

VEGA 2/1129/22 Bioactive substances in salivary glands and saliva of haematophagous arthropods and their effect on hemostasis of the host. Investigator

VEGA 02/4086/04 Typification of arthropod assemblages in alpine ecosystems of Western Carpathians. Investigator

APVV 51-004702 Selected zoonoses in genomic era with focus on ticks and tick borne diseases. Investigator

Bilateral project: Analysis of species- and tissue-specific function of neuropeptides in insects. In collaboration with the National Institute of Agrobiological Science, Japan (Apr. 2004- Apr. 2006), supported by JSPS, Investigator

APVV-51-039105 Expression and function of neuropeptides and their receptors in insects and ticks. Investigator

APVV-51-004505 Immunosuppressed tick-host interface – a gap for tick vaccine intervention. Investigator

VEGA 2/6156/26 Fauna of arthropods (Arthropoda) in relict oak forests in Borská nížina. Investigator

VEGA 2/6090/26 Identification and function of ecdysiotropic hormones in various insects. Investigator

HZ č. 257/07 Development of system for monitoring of forest ecosystems in areas influenced by the windstorm and in undamaged areas. Investigator

NIH grant GM0 67310-11 Molecular physiology of the epitracheal endocrine system. Subcontract from National Institute of Health, USA. Investigator

VEGA 2/0132/09 Molecular mechanisms in secretion of peptide hormones by the endocrine Inka cells. Investigator

ŠF OPVaV-2009/4.2/04-SORO (ITMS kód 26240220044) Development of diagnostic methods for the detection of tick-borne pathogens and techniques for the preparation of anti-tick vaccine. Investigator, Project manager

APVV-0827-11 Utilization of transgenic approaches for functional analysis of neuropeptides and their receptors regulating behavior and development in insects. Principal investigator

VEGA 2/0121/13 Identification and expression of neuropeptides in the silkworm (*Bombyx mori*). Principal investigator

APVV-14-0556 The role of neuropeptides and receptors in regulation of pathogen transfer from ticks to their hosts. Investigator

VEGA 2/0164/15 Web atlas of neuroendocrine system of insects. Investigator

LIST OF PUBLICATIONS (WOS, CCC, IF)

Ladislav Roller

1. **Roller L.** 1989. Príspevok k poznaniu čeláde rohačkovitých (Diptera, Sciomyzidae) na Slovensku. Správy Slovenskej entomologickej spoločnosti 1(3): 12-18.
2. **Roller L.** 1993. Príspevok k výskytu čeláde rohačkovitých (Diptera, Sciomyzidae) v ŠPR Šúr. Správy Slovenskej entomologickej spoločnosti 5(1-2): 25-30.
3. Slovák M., **Roller L.** 1993. Electrophoretic discrimination of horseflies (Diptera, Tabanidae) of Šúr (South-west Slovakia). Entomological Problems 24(1): 31-37.
4. **Roller L.** 1993. New records of sawflies (Hymenoptera, Symphyta) from Slovakia. Entomological Problems 24(2): 81-84.
5. **Roller L.** 1994. Faunistic records. Symphyta. Entomological Problems 25(2): 24.
6. **Roller L.** 1995. Seasonal dynamics of sciomyzids (Sciomyzidae, Diptera). **Biologia, Bratislava** 50(2): 171-176.
7. **Roller L.** 1996. New records of sawflies (Hymenoptera, Symphyta) in Slovakia. **Biologia, Bratislava** 51(5): 549-550.
8. **Roller L.** 1996. A new species of *Sciomyza* Fallén from central Europe (Diptera: Sciomyzidae). **Deutsche entomologische Zeitschrift** 43(2): 245-250.
9. Kozánek M., **Roller L.** 1997. A study of scatopsid (Diptera, Scatopsidae) communities in Slovakia. **Biologia, Bratislava** 52(5): 637-661.
10. **Roller L.** 1997. Diptera: Acroceridae. Faunistic records from Slovakia. Entomological Problems 28(2): 140.
11. Holuša J., **Roller L.** 1997. Hymenoptera: Cimbicidae, Faunistic records from Moravia – 3. Sborník Přírodovědného klubu v Uh. Hradišti 2: 130.
12. **Roller L.** 1998. Sawfly (Hymenoptera, Symphyta) community in the Devínska Kobyla National Nature Reserve. **Biologia, Bratislava** 53(2): 213-221.
13. **Roller L.** 1998. K rozšíreniu niektorých vzácnejších druhov rohačkovitých (Diptera, Sciomyzidae) na Slovensku. Entomofauna carpathica 10: 80-84.
14. Haris A., **Roller L.** 1998. Three new Tenthredo species from Yunan (Hymenoptera: Tenthredinidae). Folia entomologica Hungarica 59: 135-140.
15. **Roller L.**, Lukáš J., 1999. New records of sawflies (Hymenoptera, Symphyta) in Slovakia. **Biologia, Bratislava** 54(2): 225-228.
16. **Roller L.** 1999. Faunistic records from Slovakia. Hymenoptera: Symphyta: Tenthredinidae: Nematinae. Entomological Problems 30(1): 30, 52.
17. **Roller L.** 1999. First records of Nematinae (Hymenoptera, Symphyta, Tenthredinidae) in Slovakia. **Biologia, Bratislava** 54(5): 599-600.
18. Haris A., **Roller L.** 1999. Two new sawflies from Yunan (Hymenoptera: Tenthredinidae). **Acta Zoologica Academiae Scientiarum Hungaricae** 45(3): 217-219.
19. **Roller L.** 1999. Check list of the sawflies (Hymenoptera: Symphyta) of Slovakia. Entomological Problems 30(2): 37-48.

20. Haris A., **Roller** L. 1999. Four new sawfly species from Yunan (Hymenoptera: Tenthredinidae). *Folia entomologica Hungarica* 60: 231-237.
21. **Roller** L., Holuša, J. 2000: Využití Malaisého lapače při studiu pilatek a dalších širokopasích blanokřídých (Hymenoptera: Symphyta). *Zpravodaj ochrany lesa* 6: 4-8.
22. Úradník M., **Roller** L. 2000. New records of webspinning and tenthredinid sawflies (Hymenoptera: Pamphiliidae, Tenthredinidae) from Slovakia. *Biologia, Bratislava* 55(2): 193-194.
23. **Roller** L. 2000. First records of Blasticotomidae, Tenthredinidae, Pamphiliidae (Hymenoptera) from Slovakia. *Biologia, Bratislava* 55(5): 561-562.
24. **Roller** L. 2000. Súčasný stav poznania fauny hrubopásych (Hymenoptera, Symphyta) na Slovensku. *Správy Slovenskej zooloickej spoločnosti* 18: 109-114.
25. Holuša J., **Roller** L. 2000. The records of rarely collected sawflies of genus *Pristiphora* subg. *Lygaeonematus* (Hymenoptera: Tenthredinidae) in the Czech Republic. *Acta Universitates agriculturae et silviculturae* 48(5): 7-11.
26. **Roller** L., 2001. Príspevok k poznaniu hrubopásych (Hymenoptera, Symphyta) a rohačkovitých (Diptera, Sciomyzidae) prírodnej pamiatky Mitická slatina. p. 32-36. In: Májsky, J. (ed.), *Zborník výsledkov inventarizačného výskumu prírodnej pamiatky Mitická slatina*. Občianske združenie Pre Prírodu, Trenčín, 99 pp.
27. Úradník M., **Roller** L. 2002. First records of Tenthredininae (Hymenoptera, Symphyta, Tenthredinidae) from Slovakia. *Biologia, Bratislava* 57(2): 151-152.
28. Tanaka, Y., Hua, Y.-J., **Roller**, L., Tanaka, S. 2002. Corazonin reduces the spinning rate in the silkworm, *Bombyx mori*. *Journal of Insect Physiology* 48: 707-714.
29. **Roller**, L, Tanaka, Y., Tanaka, S. 2003. Corazonin and corazonin-like substances in the central nervous system of the Pterygote and Apterygote insects. *Cell & Tissue Research* 312: 393-406.
30. Rajska P, Pechanova O, Takac P, Kazimirova M, **Roller** L, Vidlicka L, Ciampor F, Labuda M, Nuttall P.A. 2003: Vasodilatory activity in horsefly and deerfly salivary glands. *Medical And Veterinary Entomology* 17 (4): 395-402.)
31. **Roller** L. 2004. Hrubopáse blanokřídlovce (Hymenoptera, Symphyta) Tematínskych kopcov. *Entomofauna Carpathica* 16: 56-64.
32. Holuša J., **Roller** L. 2004. Notes to distribution and seasonal activity of spruce diprionids (Hymenoptera: Diprioidae) in the eastern part of the Czech Republic. *Journal of Forest Science* 50(12): 579-585.
33. **Roller** L. 2005. Blanokřídlovce (Hymenoptera): hrubopáse (Symphyta). p. 117-123 In: Majzlan, O. (ed.), *Fauna Devínskej Kobyly*. APOP, Bratislava, 181 pp.
34. **Roller** L. 2006. Seasonal flight activity of sawflies (Hymenoptera, Symphyta) in submontane region of the West Carpathians, Central Slovakia. *Biologia, Bratislava* 61(2): 193-205.
35. **Roller** L., Tanaka S., Kimura K., Satake H., Tanaka Y. 2006. Molecular cloning of [Thr4, His7]-corazonin (Apime-corazonin) and its distribution in the central nervous system of the honey bee *Apis mellifera* (Hymenoptera: Apidae). *Appl Entomol Zool* 41(2): 331-338.
36. **Roller** L. 2006. Hrubopáse blanokřídlovce (Hymenoptera, Symphyta) Tematínskych vrchov – zhrnutie faunistického výskumu. p. 53-55. In: K. Rajcová (ed.): *Najvzácnejšie prírodné hodnoty Tematínskych vrchov*. Zborník výsledkov inventarizačného výskumu územia európskeho významu Tematínske vrchy. KOZA, Trenčín a Pre Prírodu, Trenčín, 101 pp.
37. **Roller** L., Beneš K., Blank S. M., Holuša J., Jansen E., Jänicke M., Kaluza S., Kehl A., Kehr I., Kraus M., Liston A. D., Nyman T., Nie H., Savina H., Taeger A., Wei M., 2006. - Contribution to the knowledge of sawfly fauna (Hymenoptera, Symphyta) of the Low Tatras National Park in Central Slovakia. *Naturae Tutela* 10: 57-72.

38. Tanaka Y, **Roller** L 2006. Comprehensive analysis of neuropeptides in the silkworm, *Bombyx mori*. Zoological Science 23 (12): 1218-1218.
39. David S., Kalivoda H., Kalivodová E., Šteffek J., Bulánková E., Fedor P., Fend'a P., Gajdoš P., Hreško J., Kautman J., Olšovský T., Országh I., **Roller** L., Vidlička L. 2007. Xerothermné biotopy Slovenska. Edícia Biosféra, séria vedeckej literatúry, Vol. A3, vydalo združenie Biosféra, Bratislava, 74 pp.
40. Shinohara A, **Roller** L. 2007. *Neurotoma gansuensis* sp. nov. (Hymenoptera, Pamphiliidae) from Gansu Province, China. Japanese Journal of Systematic Entomology 13(1): 63-66.
41. **Roller** L. 2007. Hrubopáse blanokrídlovce (Hymenoptera, Symphyta) ostrova Kopáč. pp 197-206. In: Majzlan O. (ed.) *Príroda ostrova Kopáč*. Fytoterapia OZ, Bratislava, 287 pp.
42. Žitňan D., Kim YJ, Žitňanová I, **Roller** L, Adams ME, 2007: Complex steroid-peptide-receptor cascade controls insect ecdysis. **General and Comparative Endocrinology** 153: 88-96.
43. Haris A., **Roller** L. 2007. Sawflies from Meghalaya, India (Hymenoptera: Tenthredinidae). *Natura Somogyiensis* 10: 159-163.
44. Haris A., **Roller** L. 2007. Sawflies from Gansu province, China (Hymenoptera: Symphyta: Tenthredinidae). *Natura Somogyiensis* 10: 165-172.
45. Haris A., **Roller** L. 2007. Sawflies from Laos (Hymenoptera: Tenthredinidae). *Natura Somogyiensis* 10: 173-190.
46. Rajska, P., Knezl, V., Kazimírová, M., Takáč, P., **Roller**, L., Vidlička, L., Čiampor, F., Labuda, M., Weston-Davies, W. & Nuttall, P.A. 2007. Effects of horsefly (Tabanidae) salivary gland extracts on isolated perfused rat heart. **Medical and Veterinary Entomology**, 21: 384-389.
47. **Roller** L., Tanaka Y., Valachová-Spálovská I., Šimo L. & Žitňan D. 2007. The analysis of neuropeptides encoded in the silkworm (*Bombyx mori*) genome. Biologically active peptides, Collection Symposium Series (Vol. 9): 83-85.
48. Daubnerová, I., Shiomi, K., **Roller**. L. & Žitňan, D. 2007. Baculovirus-mediated gene transfer for analysis of moth behaviors regulated by multiple neuropeptides. Biologically active peptides, Collection Symposium Series (Vol. 9): 33-35.
49. **Roller** L., Haris A. 2008. Sawflies of the Carpathian Basin, History and Current Research. *Natura Somogyiensis* series 11. Kaposvár. pp 259. ISBN 978-963-7212-60-4 (vystup B)
50. **Roller**, L., Yamanaka, N., Watanabe, K., Daubnerová, I., Žitňan, D., Kataoka, H. & Tanaka, Y. 2008. The unique evolution of neuropeptide genes in the silkworm *Bombyx mori*. **Insect Biochemistry and Molecular Biology** 38: 1147-1157. (IF 2,62)
51. Xia Q., Wang J., Zhou Z., Li R., Fan W., Cheng D., Cheng T., Qin J., Duan J., Xu H., Li Q., Li N., Wang M., Dai F., Liu C., Lin Y., Zhao P., Zhang H., Liu S., Zhaa X., Li Ch., Zhao A., Pan M., Pan G., Shen Y., Gao Z., Wang Z., Wang G., Wu Z., Hou Y., Chai C., Yu Q., He N., Zhang Z., Li S., Yang H., Lu C., Wang J., Xiang Z., Mita K., Kasahara M., Nakatani Y., Yamamoto K., Abe H., Ahsan B., Daimon T., Doi K., Fujii T., Fujiwara H., Fujiyama A., Futahashi R., Hashimoto S., Ishibashi J., Iwami M., Kadono-Okuda K., Kanamori H., Kataoka H., Katsuma S., Kawaoka S., Kawasaki H., Kohara Y., Kozaki T., Kuroshu R.M., Kuwazaki S., Matsushima K., Minami H., Nagayasu Y., Nakagawa T., Narukawa J., Nohata J., Ohishi K., Ono Y., Osanai-Futahashi M., Ozaki K., Qu W., **Roller** L., Sasaki S., Sasaki T., Seino A., Shimomura M., Shimomura M., Tadasu Shin-I, Shinoda T., Shiotsuki T., Suetsugu Y., Sugano S., Suwa M., Suzuki Y., Takiya S., Tamura T., Tanaka H., Tanaka Y., Touhara K., Yamada T., Yamakawa M., Yamanaka N., Yoshikawa H., Zhong Y-S., Shimada T. & Morishita, S. 2008. The genome of a lepidopteran model insect, the silkworm *Bombyx mori*. **Insect Biochemistry and Molecular Biology** 38: 1036-1145. (IF 2,62)

52. Dvořák L., Bogush P., Malenovský I., Bezděčka P., Bezděčková K, Holý K., Liška P., Macek J., **Roller** L., Říha M., Smetana V., Straka J. & Šima P. 2008. Hymenoptera of Hády Hill, near the city of Brno (Czech Republic), collected during the Third Czech-Slovak Hymenoptera meeting. *Acta Musei Moravice, Scientiae biologicae (Brno)* 93: 53-92.
53. **Roller** L., Havlíková S., Peterková K., Kazimírová M. 2009. Neobyčejná variabilita potenciálních inhibitorov trombínu v slinných žľazách kliešťa *Amblyomma variegatum*. p. 55-57. In: (Eds E. Špitalská, M. Kazimírová, E. Kocianová, Z. Šustek) Zborník z Konferencie "Labudove dni". Virologický ústav SAV, Bratislava.
54. Daubnerová I., **Roller** L., Žitňan D. 2009. The transgenesis approaches for functional analysis of peptidergic cells in the silkworm *Bombyx mori*. *Gen. Comp. Endocrinol.* 162: 36-42. (IF 2,73)
55. Havlíková S., **Roller** L., Koči J., Trimnell A.R., Kazimírová M., Klempa B., Nuttall P.A. 2009. Functional role of 64P, the candidate transmission-blocking vaccine antigen from the tick, *Rhipicephalus appendiculatus*. *International Journal of Parasitology* 39: 1485-1494. (IF 3,81)
56. **Roller** L., Žitňanová I., Dai L., Šimo L., Park Y., Satake H., Tanaka Y., Adams M.E., Žitňan D. 2010. Ecdysis triggering hormone signalling in arthropods. *Peptides* 31: 429-441. (IF 2,65)
57. Yamanaka N., Hua Y-J., **Roller** L., Spalovská-Valachová I., Mizoguchi A., Kataoka H., Tanaka Y. 2010. *Bombyx* prothoracicostatic peptides activate the sex peptide receptor to regulate ecdysteroid biosynthesis. *Proceedings of the National Academy of Sciences of the United States of America* 107(5): 2060-2065. (IF 9,77)
58. **Roller** L. 2010. Hrubopáse blanokrídlowce (Hymenoptera: Symphyta) PR Šúr. p. 215-236. In: Majzlan O. & Vidlička E. (eds): *Príroda rezervácie Šúr*. Ústav zoológie SAV, Bratislava, 410 pp.
59. Blank S.M., Hara H., Mikuláš J., Csóka G., Ciornei C., Constantineanu R., Constantineanu I., **Roller** L., Altenhofer E., Huflejt T., Véték G. 2010. *Aproceros leucopoda* (Hymenoptera: Argidae): An East Asian pest of elms (*Ulmus* spp.) invading Europe. *Eur. J. Entomol.* 107: 357-367. (IF 0,94)
60. Smetana V., **Roller** L., Beneš K., Bogush P., Dvořák L., Holý K., Karas Z., Macek J., Straka J., Šima P., Tyrner P., Vepřek D., Zeman V. 2010. Blanokrídlowce (Hymenoptera) na vybraných lokalitách Borskej nížiny. *Acta Musei Tekovenss Levice* 8: 78-111.
61. Yamanaka N., **Roller** L., Žitňan D., Satake H., Mizoguchi A., Kataoka H., Tanaka Y. 2011. *Bombyx* orcokinin are brain-gut peptides involved in the neuronal regulation of ecdysteroidogenesis. *Journal of Comparative Neurology* 519: 238-246. (IF 3,80)
62. Attardo Geoffrey M., Benoit Joshua B., Michalkova Veronika, Yang, Guangxiao, **Roller** Ladislav, Bohova Jana, Takáč Peter, Aksoy Serap. 2012. Analysis of lipolysis underlying lactation in the tsetse fly, *Glossina morsitans*. *Insect Biochemistry and Molecular Biology* 42(5): 360-370. (IF 3,23)
63. **Roller** Ladislav, Olšovský Tomáš. 2012. Prvónálezy hrubopásych blanokrídlowcov (Hymenoptera, Symphyta) v slatinných lesoch s tavoločníkom vrboolistým (*Spiraea salicifolia*) v Borskej nížine. *Entomofauna Carpathica* 24(1):15-20.
64. Žďárek J., Takáč P., Keszelyová D., Šimo L., **Roller** L., Cvačka J., Šanda M. 2012. Parturition in Tsetse Flies: Endocrine control. In: *Quality Control for Expanded Tsetse Production, Sterilization and Field Application*. IAEA-TECDOC / International Atomic Energy Agency Technical Documents. 1683 / International Atomic Energy Agency. Vienna : IAEA / International Atomic Energy Agency, 2012. ISBN 978-92-0-130110-9. p. 63-82.

65. Havlíková S, Ličková M, Ayllón N, **Roller** L, Kazimírová M, Slovák M, Moreno-Cid JA, Pérez de la Lastra JM, Klempa B, de la Fuente J. 2013. Immunization with recombinant subolesin does not reduce tick infection with tick-borne encephalitis virus nor protect mice against disease. **Vaccine** 31(12):1582-1589. (IF 3,49)
66. Krascsenitsová E, Kozánek M, Ferenčík J, **Roller** L, Stauffer Ch, Bertheau C. 2013. Impact of the Carpathians on the genetic structure of the spruce bark beetle *Ips typographus*. **J Pest Sci** 86: 669–676. DOI 10.1007/s10340-013-0508-8 (IF 2,66)
67. **Roller** L, Šimo L, Mizoguchi A, Slovák M, Park Y, Žitňan D. 2015. Orcokinin-like immunoreactivity in central neurons innervating the salivary glands and hindgut of ixodid ticks. **Cell Tissue Res.** 360(2):209-22. doi: 10.1007/s00441-015-2121-z. Epub 2015 Mar 20.
68. Shah R, Kronekova Z, Zahoranová A, **Roller** L, Saha N, Saha P, Kronek J. 2015. In vitro study of partially hydrolyzed poly(2-ethyl-2-oxazolines) as materials for biomedical applications. **J Mater Sci Mater Med.** 2015 Apr;26(4):157. doi: 10.1007/s10856-015-5485-4. Epub 2015 Mar 18.
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