**CURRICULUM VITAE**

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| **Personal information** |  |
| **Surname, Name, title** | ***Mach, Mojmír RNDr., PhD.*** |
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| Telephone | *+421-2-32295718*  |
| E-mail | *mojmir.mach@savba.sk* |
| Nationality | *slovak* |
| Sex | *male* |
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| **Work experience** |  |
| Period | *2013 – till present* |
| Profession or performedfunction | *Head of the Department of the Developmental and Behavioral Toxicology* |
| Main job description andarea of responsibility | *To plan and carry out experimental studies and activities of the department, so as to maintain and develop new prospective scientific co-operation , strategic plans by studying new technological opportunities and recommending objectives for new grant proposals.*  |
| Employer’s name andaddress | *Institute of Experimental Pharmacology & Toxicology, SASc.**Dúbravská cesta 9, 541 04 Bratislava, Slovak Republic* |
| The area of activities orindustry | *Basic research in the field of toxicology and pharmacology* |
| Reference | *RNDr. Michal Dubovický, CSc. – director of the Institute* |
| Period | *2012 – till present* |
| Profession or performedfunction | *Deputy Director and Member of the Scientific Board of the Institute of Experimental Pharmacology & Toxicology, SASc.* |
| Main job description andarea of responsibility | *Advisory and control activity in accordance with agreed scientific plans of the Institute.* |
| Employer’s name andaddress | *Institute of Experimental Pharmacology & Toxicology, SASc.**Dúbravská cesta 9, 541 04 Bratislava, Slovak Republic* |
| The area of activities orindustry | *Basic research in the field of toxicology an pharmacology* |
| Reference | *RNDr. Michal Dubovický, CSc. – director of the Institute* |
| Period | *2008 – till present* |
| Profession or performedfunction | *Executive Editor-In-Chief and Director of Editorial Office* *Journal Interdisciplinary Toxicology (Slovak Toxicology Society SETOX, Bratislava, Slovakia)* |
| Main job description andarea of responsibility | *Managing the activities of the Editorial Office and develops strategic plan for increasing visibility of the Journal by studying presentation opportunities .* |
| Employer’s name andaddress | *Slovak Toxicology Society SETOX.**Dúbravská cesta 9, 541 04 Bratislava, Slovak Republic* |
| The area of activities orindustry | *Managing the Editorial Office* |
| Reference | *Assoc. Prof. RNDr. Eduard Ujházy, CSc. –Executive Committee of SETOX* |
| Period | *2008 – till present* |
| Profession or performedfunction | *Senior Research Scientist, Dept. Reproductive Toxicology,* *Institute of Experimental Pharmacology & Toxicology, SASc., Bratislava* |
| Main job description andarea of responsibility | *Carry out the toxicological experiments and managing the grant activities of the Department. Investigation of the drug effects on course of parturition as well as on neurobehavioral development of the rat's offspring after exposition during intrauterine development and lactation.* |
| Employer’s name andaddress | *Institute of Experimental Pharmacology & Toxicology, SASc.**Dúbravská cesta 9, 541 04 Bratislava, Slovak Republic* |
| The area of activities orindustry | *Basic research in the field of toxicology and pharmacology* |
| Reference | *Prof. MUDr. Radomír Nosáľ, DSc. – director of the Institute* |
| Period | *2006 – 2008* |
| Profession or performedfunction | *Junior Research Scientist, Dept. Reproductive Toxicology, Institute of Experimental Pharmacology & Toxicology, SASc., Bratislava* |
| Main job description andarea of responsibility | *Carry out the toxicological experiments* |
| Employer’s name andaddress | *Institute of Experimental Pharmacology & Toxicology, SASc., Dúbravská cesta 9, 541 04 Bratislava, Slovak Republic* |
| The area of activities orindustry | *Basic research in the field of toxicology and pharmacology* |
| Reference | *Prof. MUDr. Radomír Nosáľ, DSc. – director of the Institute* |
| Period | *2002 – 2004* |
| Profession or performedfunction | *Research consultant* |
| Main job description andarea of responsibility | *Carry out the toxicological experiments within the project of US Department of Defence regarding the topic of Gulf War Syndrome, Lecturer on the study program Horizon in Medicine 2004* |
| Employer’s name andaddress | *Wright State University, Dayton, Ohio, USA* |
| The area of activities orindustry | *Basic research in the field of toxicology* |
| Reference | *Prof. James B. Lucot, PhD.* |
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| **Education, vocational training** |  |
| Period | *2006 – 2008* |
| Achieved qualification/degree | *Senior Research Scientist* |
| Main subjects/professional skills | *Developmental toxicology and psychopharmacological studies* |
| The name and type of organisation which provided the education | *Dept. Reproductive Toxicology, Institute of Experimental Pharmacology & Toxicology, SASc., Bratislava* |
| The level of education in a national or international classification | *Assoc. Professor* |
| Period | *2006* |
| Achieved qualification/degree | *Certificate of Compliance in EUROTOX Education Course* |
| Main subjects/professional skills | *Continued education course in toxicology held in Borowetz, Bulgaria* |
| The name and type of organisation which provided the education | *Federation of National Toxicology Societies EUROTOX* |
| The level of education in a national or international classification | *basic educational course* |
| Period | *2001 -2006* |
| Achieved qualification/degree | *Philosophie doctor (PhD.)* |
| Main subjects/professional skills | *field of study: pharmacology/toxicology**behavioural pharmacology, developmental toxicology* |
| The name and type of organisation which provided the education | *Dept. Reproductive Toxicology, Institute of Experimental Pharmacology & Toxicology, SASc., Bratislava* |
| The level of education in a national or international classification | *PhD.* |
| Period | *1995 – 2000* |
| Achieved qualification/degree | *Master of Science* |
| Main subjects/professional skills | *biology, animal physiology and ethology* |
| The name and type of organisation which provided the education | *Faculty of Natural Sciences, Comenius University, Bratislava,Slovakia* |
| The level of education in a national or international classification | *Master degree* |
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| **Further experience, knowledge, skills** |  |
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| Native language | *Slovak/Czech* |
| Czech language certified level |  |
| Knowledge of English | *very good (spoken & written) – C2 (according to CEF level)* |
| Organizational abilities and skills | *Director of Organizing Committee for Annual Congresses of Slovak and Czech toxicologists - Interdisciplinary Toxicology Conference TOXCON**Member of Organizing Committee for International Congress of Toxicologists EUROTOX 2017.**Deputy Director of the Institute and Executive Editor in Chief of the journal Interdisciplinary Toxicology* |
| Experience of evaluating projects proposals | ***Scientific Reviewer for:****Neuroendocrinology Letters (Society of Integrated Sciences, Stockholm, Sweeden)**International Journal of Developmental Neuroscience (Elsevier, London, UK)**Naunyn-Schmiedeberg Archives of Pharmacology (Springer, New York, USA)**Food and Chemical Toxicology (Elsevier, London, UK)**Journal of Applied Biomedicine (Elsevier, Amsterdam, The Netherlands)**Toxicology Mechanisms and Methods (Taylor & Francis, Milton Park, UK)**Reviewed several projects for Slovak Grant Agency VEGA and APVV and Czech Grant Agency IGA* |
| Further relevant experience, knowledge and skills |  |
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| **Publication activities** | *The area of research interest involves studies to elucidate mechanisms of hypoxia during sensitive stages of development and involvement of drug during organogenesis and “fine tuning” of central nervous system. Using a variety of animal models of human diseases in conjunction with biochemical, histology and behavioral methods of analysis, trying to determine the extent to which these early influences can change the quality of later life. Screening for new prospective psychoactive drugs is also one of the research focuses.* |
|  | *Important Publications:**KOPRDOVÁ, Romana - OSACKÁ, Jana - MACH, Mojmír - KISS, Alexander. Acute impact of selected pyridoindole derivatives on Fos expression in different structures of the rat brain. In Cellular and Molecular Neurobiology, 2018, vol. 38, no. 1, p. 171-180. ISSN 0272-4340.**KOPRDOVÁ, Romana - BÖGI, Eszter - BELOVIČOVÁ, Kristína - SEDLÁČKOVÁ, Natália - OKULIAROVÁ, Monika - UJHÁZY, Eduard - MACH, Mojmír. Chronic unpredictable mild stress paradigm in male Wistar rats: effect on anxiety- and depressive-like behavior. In Neuroendocrinology Letters, 2016, vol. 37, suppl. 1, p. 103-110.**ŠVECOVÁ, Blanka - MACH, Mojmír. Content of 5-hydroxymethyl-2-furfural in biscuits for kids. In Interdisciplinary toxicology, 2017, vol. 10, no. 2, p. 66-69. (2017 - SCOPUS). ISSN 1337-6853.**SVITOK, Pavel - MOLČAN, L. - STEBELOVÁ, Katarína - VESELÁ, A. - SEDLÁČKOVÁ, Natália - UJHÁZY, Eduard - MACH, Mojmír - ZEMAN, Michal. Prenatal hypoxia in rats increased blood pressure and sympathetic drive of the adult offspring. In Hypertension Research, 2016, vol. 39, no. 7, p. 501-505.**BRUCKNEROVÁ, Ingrid - MACH, Mojmír - DUBOVICKÝ, Michal - UJHÁZY, Eduard. Neonatal withdrawal syndrome and perinatal asphyxia. How to manage the patient? In Neuroendocrinology Letters, 2015, vol. 36, suppl. 1, p. 53-56.**SEDLÁČKOVÁ, Natália - KRAJČIOVÁ, Martina - KOPRDOVÁ, Romana - UJHÁZY, Eduard - BRUCKNEROVÁ, Ingrid - MACH, Mojmír. Subchronic perinatal asphyxia increased anxiety- and depression-like behaviors in the rat offspring. In Neuroendocrinology Letters, 2014, vol. 35, suppl. 2, p. 214-217. (0.935 - IF2013).* *UJHÁZY, Eduard - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - SEDLÁČKOVÁ, Natália - DANIHEL, Ľudovít - BRUCKNEROVÁ, Ingrid - MACH, Mojmír. Subchronic perinatal asphyxia in rats: Embryo-foetal assessment of a new model of oxidative stress during critical period of development. In Food and chemical toxicology, 2013, vol. 61, p. 233-239.* *UJHÁZY, Eduard - MACH, Mojmír - NAVAROVÁ, Jana - DUBOVICKÝ, Michal. Teratology on the crossroads: historical aspects and modern approaches. In Neuroendocrinology Letters, 2012, vol. 33, no. 3, p. 304 - 313.* *BRUCKNEROVÁ, Ingrid - BEHÚLOVÁ, Darina - BZDÚCH, Vladimír - MACH, Mojmír - DUBOVICKÝ, Michal - UJHÁZY, Eduard. Newborn with neonatal form of molybdenum cofactor deficiency - the first patient in the Slovak Republic. In Neuroendocrinology Letters, 2010, vol. 31, suppl. 2, p. 5-7.* *BRUCKNEROVÁ, Ingrid - KALDARÁROVÁ, Monika - GAJDOŠ, Marek - MACH, Mojmír - DUBOVICKÝ, Michal - UJHÁZY, Eduard. The influence of malformation of Galen vein on the cardiovascular system in a newborn. In Neuroendocrinology Letters, 2011, vol. 32, suppl. 1, p. 5-7.* *BRUCKNEROVÁ, Ingrid - HOLOMÁŇOVÁ, Anna - UJHÁZY, Eduard - MACH, Mojmír. Sixty-year anniversary of the Apgar scoring system and 100-year anniversary of the "Moro" reflex. In Neuroendocrinology Letters, 2012, vol. 33, no. 8, p. 729-731.* *BRUCKNEROVÁ, Ingrid - HOLOMÁŇOVÁ, Anna - MACH, Mojmír - UJHÁZY, Eduard. From pediatric history. Important personalities in relation to some genetic defects - "trisomies". In Neuroendocrinology Letters, 2012, vol. 33, no. 7, p. 661-664.* *GÁSPÁROVÁ, Zdenka - ŠNIRC, Vladimír - ŠTOLC, Svorad - DUBOVICKÝ, Michal - MACH, Mojmír - UJHÁZY, Eduard. Maternal treatment of rats with the new pyridoindole antioxidant during pregnacy and lactation resulting in improved offspring hippocampal resistance to ischemia in vitro. In Neuroendocrinology Letters, 2010, vol. 31, no. 3, p. 348-352.* *MACH, Mojmír. Ethological approaches in pharmacology: prenatal antioxidant supplementation during intrauterine hypoxia in rats and behavioral effects of acetylcholinesterase inhibitors in mice. Saarbrücken : VDM Verlag Dr.Müller, 2009. 104 p. ISBN 978-3-639-13140-6.**MACH, Mojmír - UJHÁZY, Eduard - DUBOVICKÝ, Michal. Psychopharmacological properties of the pyridoindole derivative SMe1EC2. In Toxicology Letters, 2009, vol.189S, p. S252.* *DUBOVICKÝ, Michal - MACH, Mojmír - NAVAROVÁ, Jana - GÁSPÁROVÁ, Zdenka - BEZEK, Štefan - UJHÁZY, Eduard. Developmental toxicity study of the pyridoindole SMe1EC2 in rats. In Toxicology Letters, 2009, vol.189S, p. S147.* *MACH, Mojmír - GRUBBS, Robert D. - PRICE, William A. - NAGAOKA, Maya - DUBOVICKÝ, Michal - LUCOT, James B. Delayed behavioral and endocrine effects of sarin and stress exposure in mice. Journal of applied toxicology. 2008, vol.28, p.132-139.* *BEZEK, Štefan - UJHÁZY, Eduard - DUBOVICKÝ, Michal - MACH, Mojmír. Nongenomic memory of foetal history in chronic diseases development. Neuroendocrinology Letters. 2008, vol.29, no.5, p.620-626.* *BRUCKNEROVÁ, Ingrid - BZDÚCH, Vladimír - BEHÚLOVÁ, Darina - FERIANEC, Vladimír - DUBOVICKÝ, Michal - UJHÁZY, Eduard - MACH, Mojmír. Reversible asphyxial status in a newborn due to neonatal form of carnitine palmitoyltransferase II deficiency. Neuroendocrinology Letters. 2008, vol.29, no.5, p.627-630.* *UJHÁZY, Eduard - DUBOVICKÝ, Michal - PONECHALOVÁ, Veronika - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - ŠNIRC, Vladimír - MACH, Mojmír. Prenatal developmental toxicity study of the pyridoindole antioxidant SMe1EC2 in rats. Neuroendocrinology Letters. 2008, vol.29, no.5, p.639-643.* *BEZEK, Štefan - UJHÁZY, Eduard - MACH, Mojmír - NAVAROVÁ, Jana - DUBOVICKÝ, Michal. Developmental origin of chronic diseases: toxicological implication. Interdisciplinary toxicology. 2008, vol.1, no.1, p. 29-31.* *BRUCKNEROVÁ, Ingrid - UJHÁZY, Eduard - DUBOVICKÝ, Michal - MACH, Mojmír. Early assessment of the severity of asphyxia in term newborns using parameters of blood count. Interdisciplinary toxicology. 2008, vol.1, no.3-4, p.211-213.* *DUBOVICKÝ, Michal - MACH, Mojmír - BRUCKNEROVÁ, Ingrid - UJHÁZY, Eduard. Evaluation of developmental neurotoxicity: most important issues focused on neurobehavioral development. Interdisciplinary toxicology. 2008, vol.1, no.3-4, p.206-210.* *UJHÁZY, Eduard - NAVAROVÁ, Jana - DUBOVICKÝ, Michal - BEZEK, Štefan - MACH, Mojmír. Important issues in developmental toxicity testing : topical essay. Interdisciplinary toxicology. 2008, vol.1, no.1, p. 27-28.* *KOVAČOVSKÝ, Pavel - MACH, Mojmír. Behavioral evaluation of new psychopharmacs using ANY-maze video tracking system. Psychologica XXXIX. Bratislava : STIMUL, 2008. ISBN 978-80-89-236-459, s. 380-387 [in slovak].* *DUBOVICKÝ, Michal - MACH, Mojmír - KEY, Mary - MORRIS, Mariana - PATON, Sarah - LUCOT, James B. Diurnal behavioral and endocrine effects of chronic shaker stress in mice. Neuroendocrinology Letters. 2007, vol.28, no.6, p.846-853.* *DUBOVICKÝ, Michal - PATON, Sarah - MORRIS, Mariana - MACH, Mojmír - LUCOT, James B. Effect of combined exposure to pyridostigmine bromide and shaker stress on acoustic startle response, pre-pulse inhibition and open field behavior in mice. Journal of applied toxicology. 2007, vol.27, p.276-283.* *LUCOT, James B. - MACH, Mojmír - DUBOVICKÝ, Michal. Shaker stress - a psychogenic model of stress with use in toxicology. Cell stress & chaperones : a comprehensive journal of stress biology and medicine. 2007, vol. 12, iss. 2, p. 7B 13 P.* *LUCOT, James B. - POINDEXTER, S. - BAIRD, S. - ATEM, P. - MACH, Mojmír. Low dose sarin suppresses dopamine function in selected brain regions: relevance to fear potentiated startle responding. Neuroscience 2007 : San Diego, California, November 7-7, 2007. - San Diego : Society for Neuroscience, 2007, p. 495.5/EE9.* *Eurotox Basic Toxicology Course : programme & lectures. September 16 - 22, 2007 Stará Lesná, Slovakia. [Bratislava] : SETOX Slovak toxicology Society : Institute of Experimental Pharmacology Slovak Academy of Sciences, 2007. 190 p. ISBN 978-80-969474-2-3.* *UJHÁZY, Eduard - SADLOŇOVÁ, Irina - DUBOVICKÝ, Michal - MACH, Mojmír - MÚČKOVÁ, Marta - FLAŠKÁROVÁ, Eva. Teratological study of the herbicide 4-chloro-2-methylphenoxyacetic acid in rabbits. Journal of applied toxicology. 2006, vol. 26, p. 368 -373.* *MACH, Mojmír - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - KOVAČOVSKÝ, Pavel - UJHÁZY, Eduard. Vitamin E supplementation in phenytoin induced developmental toxicity in rats: postnatal study. Neuroendocrinology Letters. 2006, vol. 27, suppl. 2, p. 69 -73.* *NAVAROVÁ, Jana - SCHMIDTOVÁ, Miroslava - UJHÁZY, Eduard - DUBOVICKÝ, Michal - MACH, Mojmír. Selected biochemical variables in a model of neonatal anoxia in rats. Neuroendocrinology Letters. 2006, vol. 27, suppl. 2, p. 78 -81.* *STEBELOVÁ, K. - MACH, Mojmír - HERICHOVÁ, Iveta - UJHÁZY, Eduard - ZEMAN, Michal. Melatonin concentration in plasma, pineal gland and duodenum of pregnant rats and their fetuses after melatonin and phenytoin administration. Acta Veterinaria Brno. - Brno : Veterinarni a Farmaceuticka Univerzita Brno. 2006, vol. 75, p. 161-167.* *UJHÁZY, Eduard - SCHMIDTOVÁ, Miroslava - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - MACH, Mojmír. Neurobehavioural changes in rats after neonatal anoxia: effect of natioxidant stobadine pretreatment. Neuroendocrinology Letters. 2006, vol. 27, suppl. 2, p. 82 -85.* *MACH, Mojmír - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - KOVAČOVSKÝ, Pavel - UJHÁZY, Eduard. Prenatal vitamin E supplementation induces postnatal somatic changes in rats. The International journal of prenatal and perinatal psychology and medicine : the official journal of the International Society of Prenatal and Perinatal Psychology and Medicine. Affiliated with the 3rd Medical Faculty, Charles University, Prague. 2006, vol.18, nu.1-4, p.674-683.* *MACH, Mojmír - DUBOVICKÝ, Michal - NAGAOKA, Maya - LUCOT, James B. Behavioral similarities and differences between acetylcholinestrerase ihibitors in mice. 2006 Neuroscience Meeting Planner : Oct. 15, 2006, Atlanta, Society for Neuroscience, 2006. Online [elektronický zdroj]. - Atlanta : Society for Neuroscience, 2006, pos. 163.11/Z17.* *KOVAČOVSKÝ, Pavel - DUBOVICKÝ, Michal - UJHÁZY, Eduard - MACH, Mojmír. Ethopharmacological approaches used in developmental neurotoxicology. Biologia : section cellular and molecular biology. 2005, vol. 60, suppl. 17, p. 41-44.* *MACH, Mojmír - UJHÁZY, Eduard - DUBOVICKÝ, Michal - KOVAČOVSKÝ, Pavel - NAVAROVÁ, Jana. High-dose vitamin E supplementation in phenytoin-induced intrauterine hypoxia: teratological study. Biologia: section cellular and molecular biology. 2005, vol. 60, suppl. 17, p. 45-49* *UJHÁZY, Eduard - MACH, Mojmír - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - JURÁNEK, Ivo. Effect of pyridoindole stobadine on maternal and embryo-foetal toxicity induced by phenytoin in rats. Biologia : section cellular and molecular biology. 2005, vol. 60, suppl. 17, p. 57-60.* *MACH, Mojmír - GRUBBS, Robert D. - PRICE, William A. - PATON, Sara J. - LUCOT, James B. Behavioral changes after acetylcholinesterase inhibition with physostigmine in mice. Pharmacology, biochemistry and behavior. 2004, vol. 79, p. 533-540.* |
| **Supplementary information** | *Member of Executive Committee of EUROTOX (2010-2016)**General Secretary of the Slovak Toxicology Society SETOX**Participation in scientific projects:**AS A PRINCIPAL INVESTIGATOR**VEGA 2/0166/16 (2016-2019):Prenatal programming of adult diseases: subchronic prenatal asphyxia in rats as a suitable model for studying mechanisms of embryo-fetal programming of neurobehavioral disorders**VEGA 2/0107/12 (2012-2015): Prenatal programming of psychiatric diseases: experimental approaches for evaluation of causes and mechanisms of their origin**Visegrad Fund Project No. StG 09/2009 (2009): TOXCON 2010: Borderless Toxicology**VEGA 2/0066/09 (2009-2011): Early screening of anxiolytic and antidepressive properties of pyridoindole derivatives.**Visegrad Fund Project No. 12736 (2008): TOXCON 2008: Integration of toxicological research within V4* |

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|  **Mojmir Mach, RNDr. PhD.** |
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