Curriculum Vitae

ÁRPÁD DOBOLYI

Personal data

Nationality: Hungarian

Date and place of birth: 25th March 1970, Budapest, Hungary

Family: married with 2 children

Contact information

Laboratory of Molecular and Systems Neurobiology, Department of Physiology and Neurobiology, Eötvös Loránd University, 1117 Budapest, Pázmány Péter sétány 1/C, Hungary, Tel: +36-1-372-2500 / 8775; Email: dobolyi.arpad@ttk.elte.hu

Department of Anatomy, Histology and Embryology, Semmelweis University, 1094 Budapest, Tűzoltó u. 58, Hungary, Tel: +36-1-215-6920 / 53634; Fax: +36-1-218-1612; Email: dobolyi.arpad@med.semmelweis-univ.hu

Education and appointments

2018- : Head of the Neuroscience and Human Biology Doctoral Program of the Eötvös Loránd University, Budapest, Hungary

2018- : Head of the Department of Physiology and Neurobiology, Eötvös Loránd University, Budapest, Hungary

2018- : Department of Physiology and Neurobiology, Eötvös Loránd University, Budapest, Hungary, Full Professor

2017- 2022: Head of the Laboratory of Molecular and Systems Neurobiology, Eötvös Loránd University and the Hungarian Academy of Sciences, Budapest, Hungary, Research Professor

2016- : Head of the Laboratory of Neuromorphology, Department of Anatomy, Histology and Embryology, Semmelweis University, Budapest, Hungary, Research Professor

2014-2017: Head of the NAP_B Laboratory of Molecular and Systems Neurobiology, Eötvös Loránd University and the Hungarian Academy of Sciences, Budapest, Hungary, Research Professor

2013-2016: Head of the Laboratory of Neuromorphology, Department of Anatomy, Histology and Embryology, Semmelweis University, Budapest, Hungary, Research Associate Professor

2007-2012: Neuromorphological and Neuroendocrine Research Laboratory, Department of Anatomy, Histology and Embryology, Semmelweis University and the Hungarian Academy of Sciences, Budapest, Hungary, Research Associate Professor

2005-2007: Laboratory of Neuromorphology, Hungarian Academy of Sciences, Budapest, Hungary, Marie Curie Fellow, Senior Investigator

2001-2005: Laboratory of Genetics, National Institute of Mental Health, NIH, Bethesda, USA, Research Fellow

1999-2001: Research Group of Neurobiology, Hungarian Academy of Sciences – Eötvös University, Research Associate

2000: PhD in Medicine, summa cum laude, supervisor: Dr. Gábor Juhász, title: The role of non-adenosine nucleosides in the central nervous system

1995-1998: Semmelweis University Doctoral School, Cellular and Molecular Physiology Program

1993-1994: University of Bristol, Bristol, UK; Pharmacology

1990-1995: Eötvös Loránd University, Budapest, Hungary; Chemistry

Honors and awards

2016: Honorary Professor of the University of Western-Hungary

2016: Habilitation at the Eötvös Loránd University

2015: János Bolyai Award of the Hungarian Academy of Sciences

2014: Doctor of Science of the Hungarian Academy of Sciences

2012: Principal Investigator of the Month of the Hungarian Scientific Research Fund OTKA

2007: János Bolyai Fellowship Award of the Hungarian Academy of Sciences

2005: Marie Curie Intra-European Fellowship Award of the European Commission, Brussels, EU

2004: Young Investigator Award of NARSAD (National Alliance for Research on Schizophrenia and Depression).

2004: FARE Award (Fellows Award for Research Excellence) at the National Institutes of Health, an award for winners of the annual competition of fellows' scientific presentations

1997, 1999: Fellowship of the Japanese Ministry of Education to spend 2 months in 1997 and 3 months in 1999 in the National Institute for Physiological Sciences, Okazaki, Japan

1995: Second prize in the National Competition of University Students in Hungary in Animal Physiology, Gödöllő, Hungary

1994: Scholarship Award of the British Council and the Soros Foundation to spend the 1993-94 academic year at the University of Bristol, Bristol, UK

1993: Scholarship Award of the Republic of Hungary for academic achievements at Eötvös University

1988: Szent-Györgyi Albert Award of the Hungarian Society for Chemistry for winning silver medal on the International Chemical Olympiad for Highschool Students in Helsinki, Finland

Grant support

As principal investigator:

2022-2025 National Brain Program 3.0 of the Hungarian Academy of Sciences. Title: Characterization of social brain centers

2021-2022 NKFIH MEC_SZ140942. Title: Organization of International Neuroscience Meeting Budapest 2022 IBRO Workshop

2020-2024 OTKA K134221 Research Grant of the Hungarian Scientific Research Fund. Title: The role of novel thalamo-limbic projections in controlling social behaviours.

2017-2022 Research Group of the Hungarian Academy of Sciences. Title: Neurobiology of social behavior

2017-2021 NKFIH-4300-1/2017-NKP, National Brain Program of the National Excellence Program of the Hungarian National Research, Development and Innovation Office Title: Brain mechanisms of parental care.

2017-2022 Research Group of the Hungarian Academy of Sciences. Title: Neurobiology of social behaviours.

2016-2018 KTIA_NAP_13-2-2017-0007 Infrastructural Grant of the National Brain Program. Title: Physiological, surgical and histological units.

2016-2017 Hungarian Academy of Sciences Conference Grant. Title: Sex-role evolution: integrating neuroal, behavioural and phylogenetic approaches.

2016-2019 OTKA K116538 Research Grant of the Hungarian Scientific Research Fund. Title: Neurogenomic basis of parental behaviour: gene expressional differences in brain on phylogenetic and individual levels.

2014-2017 KTIA_NAP_13-2-2014-0004 Research Grant of the National Brain Program. Title: Neurobiology of parenthood: a systems biological approach.

2012-2015 OTKA K100319 Research Grant of the Hungarian Scientific Research Fund. Title: Novel peptiderg mechanisms in central maternal adaptations.

2011-2012 OTKA NNF 85612 Research Grant of the Hungarian Scientific Research Fund. Title: The function of transforming growth factor beta proteins in the central nervous system.

2010-2011 Pfizer Basic Research Grant. Title: Identification of novel target proteins for the treatment of postpartum depression and psychosis.

2009-2011 NFM-OTKA NNF 78219 Research Grant of the Hungarian Scientific Research Fund. Title: Transforming growth factor beta proteins in the central nervous system.

2007-2011 NKTH-OTKA K67646 Research Grant of the Hungarian Scientific Research Fund. Title: Morphological basis of the role of a novel peptidergic neuromodulator system in nociceptive information processing.

2005-2007 MC-IRG 016423 Marie Curie International Reintegration Grant of the European Commission. Title: Expression and neuroprotective function of latent transforming growth factor beta binding proteins in the central nervous system of rodent and human.

2004-2005 NARSAD Young Investigator Award Grant. Title: The action of TIP39 on corticotropin-driven stress systems.

As senior participant:

2021-2025 NKFIH OTKA K138763. Title: Relationship between stress control and depression from the prespective of the median raphe, gender differences in the role of the brain stem corticotropin-releasing hormone.

2017-2019 NKFIH NVKP _16-1-2016-0016. Title: Toxic effects of Fusarium on the central nervous system.

2016-2017 Richter Gedeon Foundation. Title: Early metabolic markers in chronic hypoperfusion model of dementia.

2016-2019 NKFIH VEKOP-2.3.3-15 infrastructural grant. Title: Spinning disc, TIRF and confocal laser spinning microscopic facility for the fast visualization of molecular processes and cellular interactions.

2015-2016 Richter Gedeon Foundation. Title: Mitochondrium-associated ER proteins targets in β-amyloid-indiced dementia.

2009-2013 NKTH TECH_09_A1 Grant of the National Office for Research and Technology (Hungary). Title: Development of intelligent nanosensor diagnosing ion homeostasis at subcellular level.

2008-2011 OTKA NK 72929 Research Grant of the Hungarian Scientific Research Fund. Title: Topography and neurochemical characterization of hypothalamic and central autonomic pathways.

Invited scientific lectures

A. Dobolyi (2023) The control of social behaviours by thalamo-preoptic projections, Plenary Speaker at Joint Meeting of the Hungarian Neuroscience Society (MITT) and the Austrian Neuroscience Association (ANA)**,** Budapest, Hungary

A. Dobolyi (2022) Peptidergic control of social behaviour, Speaker at The 24rd International Symposium on Regulatory Peptides, Sterling, UK

A. Dobolyi (2021) Tuberoinfundibular peptide 39: an emerging new social neuropeptide, Plenary Speaker at The 23rd International Symposium on Regulatory Peptides, Acapulco, Mexico

A. Dobolyi (2019) IGF-I regulation of behavioural and hormonal effects during central maternal adaptations, FASEB Science Research Conference, West Palm Beach, Florida, USA

A. Dobolyi (2019) Systems biological identification of genes involved in depression, Hungarian Psychiatric Association, Győr

A. Dobolyi (2018) Novel strategy to identify protein targets for drug development in depression, Chemistry Towards Biology – Biomolecules as Potential Drug Targets, Budapest

A. Dobolyi (2018) IGF-1 regulates lactation and maternal responsiveness based on validated systems biological studies, The 6th international Conference on The Parental Brain Conference, Toronto, Canada

A. Dobolyi (2017) A systems biological approach to understand parental behaviour. Chicago Medical School, Rosalind Franklin University of Medicine and Science, Chicago, USA

A. Dobolyi (2017) Neurogenomics and connectomics of parental behaviour. Evolution of Sex Roles Workshop, Tihany, Hungary

A. Dobolyi (2017) A systems biological approach to understand parental behaviour. Regional Meeting of the Federation of European Neuroscience Societies, Pécs, Hungary

A. Dobolyi (2016) Maternal alterations in the proteome of the medial prefrontal cortex and the hypothalamus. 10th Central and Eastern European Proteomic Conference, Budapest, Hungary

A. Dobolyi (2015) Neuropeptides and maternal responsiveness. 14th international congress on amino acids and proteins, Vienna, Austria

A. Dobolyi (2015) Inputs and activational mechanisms of preoptic galanin neurons in mother rats. Neuropeptides 2015, Aberdeen, UK

A. Dobolyi (2015) Neurobiology of motherhood – a systems biological approach. Hungarian Academy of Sciences, Section of Medicine, Budapest, Hungary

A. Dobolyi (2014) Systems biological tools to identify drug targets for the treatment of postpartum depression. XIII. Conference of the Hungarian Clinical Neurogenetics Society, Galyatető, Hungary.

A. Dobolyi (2014) A systems biological approach to identify drug targets in stroke. VIII. Symposium of the Experimental Pharmacological Section of the Hungarian Society of Experimental and Clinical Pharmacology, Velence, Hungary.

A. Dobolyi (2013) A thalamic relay center affecting maternal physiology by peptidergic mechanisms. The 5th International Conference on The Parental Brain Conference, Regensburg, Germany.

A. Dobolyi (2013) Identification of potential drug targets in postpartum depression. XIV. Hungarian Neuroscience Society Meeting, Budapest, Hungary.

A. Dobolyi (2012) Brain circuitry of maternal adaptation. ´The Impact of the next generation of neurobiologists´. The IBRO International Workshop 2012, Szeged, Hungary.

A. Dobolyi (2010) Central amylin expression and its potential involvement in maternal regulations. 7th International Symposia on the CGRP Family, Queenstown, New Zealand.

A. Dobolyi (2010) The role of TIP39 in maternal adaptations. Neural Cell Function Interest Group, National Institutes of Health, Bethesda, USA.

A. Dobolyi (2010) Microarray reveals robust induction of amylin in the maternal preoptic area. The 4th International Conference on The Parental Brain, Edinburgh, Scotland, UK.

A. Dobolyi, M. Cservenák, I. Bodnár, M. Palkovits, G.M. Nagy, T.B. Usdin (2010) Anatomical and functional evidence for the involvement of tuberoinfundibular peptide of 39 residues in the regulation of suckling-induced prolactin release. The 7th International Congress of Neuroendocrinology, Rouen, France.

A. Dobolyi (2010) Brain distribution of mRNAs encoding TGF-betas and latent TGF-beta binding proteins. Colloquium series, Institute for Anatomy and Cell Biology, University Freiburg, Germany.

<u>Editoral activity:</u>

Editor of the following journals:
Biologica Futura
Scientific Reports
International Journal of Molecular Sciences

Editor of the following book:
V. Grinevich and A. Dobolyi, Editors (2021) Neuroanatomy of Neuroendocrine Systems,Series: Masterclass in Neuroendocrinology, Publisher: Springer-Nature

Other Professional Experience and Memberships

2022 – President of the International Brain Research Organization (IBRO) Workshop of the Humgarian Neuronscience Society, Budapest, Hungary (https://mitt2022.mitt.hu/invitation)

2021 – Member of the International Behavioral Neuroscience Society

2020 – Member of the Steering Committee of the International Regulatory Peptide Society

2020 – Program Committee member of the 10th International Conference of Neuroendocrinology, Glasgow, UK

2020 – Member of the Society for Behavioral Neuroendocrinology

2018 – Program Committee member of the 6th International Conference on Parental Brain, Toronto, Canada

2017 – President of the Conference: Evolution of Sex Roles Workshop, Tihany

2017 – Head of symposium: Neurobiology of Social Behavior at the Regional Meeting of the Federation of European Neuroscience Societies, Pécs, Hungary

2017 – Head of symposium: Neuro-genomic Regulation of Sex Roles at the Evolution of Sex Roles Workshop, Tihany, Hungary

2017 - Member of the Neurobiology Committee of the Hungarian Academy of Sciences

2017 - Member of the Scientific Advisory Board of the Research Groups of the Hungarian Academy of Sciences

2016 - Chair of the Financial Committee of the Hungarian Neuroscience Society

2015- Member of the Program Committee of the 15th Conference of the Hungarian Neuroscience Society

2014- Member of the Neurobiology Committee of the Hungarian Academy of Sciences

2013- Member of the Executive Committee of the Hungarian Neuroscience Society

2013- Secretary of the Organizing Committee of the 14th Conference of the Hungarian Neuroscience Society

2010-2014 Member of the Young Scientist Advisory Board of the President of the Hungarian Academy of Sciences

2009 Membership in the Steering Committee on Quality Assurance at Semmelweis University

2007-2009 Head of the Confocal Microscopy Facility supervised by a consortium of departments of the Semmelweis University and the Institute of Experimental Medicine of the Hungarian Academy of Sciences

2009-2014 Member of the Endocrine Society

2003- Member of the Society for Neuroscience

2000- Member of the Forum of European Neuroscience Societies

1998- Member of the International Brain Research Organization

1998- Member of the Hungarian Neuroscience Society

Teaching experience

Previous supervision of Ph.D. students:

There are 8 researchers who obtained PhD degree with the supervision of Arpad Dobolyi: Dr. Attila György Bagó (2012), Dr. Melinda Vitéz-Cservenák (2014), Dr. Csilla Vincze (2015), Dr. Éva Rebeka Szabó (2017), Dr. Gabriella Pál (2017), Dr. András Hugó Lékó (2018), Edina Brigitta Udvari (2020), Emese Alexandra Fazekas (2021)

2013- 2016 Dr. Gabriella Pál at the Szentágothai János Neuroscience Doctoral Program of the Semmelweis University. The title of the research topic is: The reproductive functions of transforming growth factor beta proteins in the central nervous system.

2011- 2016 Éva Rebeka Szabó at the Szentágothai János Neuroscience Doctoral Program of the Semmelweis University. The title of the research topic is: Central amylin as a novel neuropeptide in the control of maternal care.

2009-2015 Dr. Csilla Vincze received a Ph.D. degree at the Szentágothai János Neuroscience Doctoral Program of the Semmelweis University. The title of the Dissertation is: The transforming growth factor beta proteins in the central nervous system and their roles in ischemia.

2008-2013 Dr. Melinda Cservenák received a Ph.D. degree at the Szentágothai János Neuroscience Doctoral Program of the Semmelweis University. The title of the Dissertation was: The role of tuberoinfundibular peptide of 39 residues in maternal adaptations. During her Ph.D. education, Dr. Cservenák was Poster Section Winner at PhD Scientific Days 2010; Neuroendocrinology Poster Section Winner at 13th Conference of Hungarian Neuroscience Society, 2011.

2007-2012 Dr. Attila G. Bagó received a Ph.D. degree at the Szentágothai János Neuroscience Doctoral Program of the Semmelweis University. The title of the Dissertation was: The TIP39-PTH2 receptor neuromodulator system in the rodent and human central nervous system.

Present supervision of Ph.D. students:

2020- MR Hasanuzzaman Khanat the Physiology and Neurobiology Doctoral Program of the Eötvös Loránd University. The title of the research topic is: Chemogenetic investigation of the social brain

2019- Dávid at the Janos Szentagothai Neuroscience Doctoral Program of the Semmelweis University. The title of the research topic is: The role of the tuberoinfundibular peptide 39 in the control of social behaviour

2018- Rashmi Kumari at the Physiology and Neurobiology Doctoral Program of the Eötvös Loránd University. The title of the research topic is: Social activity-dependent gene expressional alterations in the brain

2018- Fanni Dóra at the Janos Szentagothai Neuroscience Doctoral Program of the Semmelweis University. The title of the research topic is: Gene expressional alterations in the depressed human brain

2018- Vivien Csikós at the Physiology and Neurobiology Doctoral Program of the Eötvös Loránd University. The title of the research topic is: The role of microglial cells in the maternal brain

2017- Szilvia Oláh at the Physiology and Neurobiology Doctoral Program of the Eötvös Loránd University. The title of the research topic is: Neuronal activational mechanisms in the maternal brain

Supervision of medical and master students:

2015- Dávid Keller, a registered student researcher at Semmelweis University. Research topic: Activation of oxytocin neurons by an ascending somatosensory pathway. First prize at the Conference of the Registered Student Researchers in Neuroscience Section at Semmelweis University in 2017.

2014-2015 Edina Udvari, a registered student researcher at Eötvös Loránd University. Research topic: Changes of the synaptic proteome in the maternal hypothalamus. First prize at the Conference of the Registered Student Researchers in Neuroscience Section at Eötvös Loránd University in 2014.

2011-2015 András Lékó, a registered student researcher at Semmelweis University. Research topic: Identification of gene targets in postpartum depression. Third and second prize at the Conference of the Registered Student Researchers in Neuroscience Section at Semmelweis University in 2013 and 2014. First prize at the National Conference of the Registered Student Researchers in 2015.

2011-2012 Károly Gubik, a registered student researcher at Semmelweis University. Research topic: Ultrasonic pup vocalization in rodents as a model of baby crying.

2010-2011 M.Sc. Dissertation of Éva Rebeka Szabó at Eötvös University. The title of the thesis: Recombinant viruses as neuronal tracers.

2009-2013 Gabriella Pál, a registered student researcher at Semmelweis University. Research topic: Induction of transforming growth factor beta proteins in the rat brain following focal ischemia elicited experimentally by middle cerebral artery occlusion. Third prize at the Conference of the Registered Student Researchers in Neuroscience Section at Semmelweis University in 2012, and first prize in 2013.

2008-2012 Bence Mogyoródi, a registered student researcher at Semmelweis University. Research topic: The neuronal connections of the medial paralemniscal nucleus. First prize at the Conference of the Registered Student Researchers in Neuroscience Section at Semmelweis University in 2011.

2008-2011 Dominika Domokos, a registered student researcher at Semmelweis University. Research topic: Neuronal activation of brainstem neurons in the maternal brain. First prize in the Theoretical Medicine Section of Student Researchers in 2009.

2006-2007 Rectoral Dissertation of Dávid Brenner at Semmelweis University. The title of the thesis: Tuberoinfundibular peptide of 39 residues in the embryonic and early postnatal rat brain.

Supervision of MSc theses:

2021: Junó Vanda Katalin, Eötvös Loránd University

2021: Narisetty Madhansai, Eötvös Loránd University

2017: Sidó Öllös Hanna, Eötvös Loránd University

2017: Madarasi Dóra, Eötvös Loránd University

2017: Csillag Veronika, Eötvös Loránd University

2017: Mayer Márton István, Eötvös Loránd University

2016: Arszovszki Antónia, Semmelweis University

2016: Kozocsay Gréti, Eötvös Loránd University

2016: Oláh Szilvia, Eötvös Loránd University

2015: Udvari Edina, Eötvös Loránd University

2015: Lékó András, Semmelweis University

2013: Pál Gabriella, Semmelweis Egyetem University

2012: Mogyoródi Bence, Semmelweis Egyetem University

2010: Szabó Éva Rebeka, Eötvös Loránd University

2007: Brenner Dávid, a Semmelweis Egyetem University

Organized courses:

2017- : Participation in the development and introduction of the Biologist MSc course at the Eötvös Loránd University as the Head of the Neuroscience and Human Biology specialization.

2017- : Participation in the development and introduction of the English language Biologist MSc course at the Eötvös Loránd University as the Head of the Neuroscience and Human Biology specialization.

2017-: Lecturer and Organizer of the mandatory MSc course Behavioural Physiology at the Department of Physiology and Neurobiology, Eötvös Loránd University.

2017- : Lecturer of the mandatory MSc course Research Methods at the Department of Physiology and Neurobiology, Eötvös Loránd University.

2017- : Lecturer and Organizer of the mandatory MSc course Introduction to Systems Biology at the Department of Physiology and Neurobiology, Eötvös Loránd University.

2017- : Organizer and lecturer of the mandatory MSc course Systems and Omics Biology at the Eötvös Loránd University Rendszerbiológia és Omika kötelező Biológus MSc kurzus tárgyfelelőse és előadója az Eötvös Loránd Tudományegyetemen.

2015- : Organizer and lecturer of the mandatory BSc practical course Methods in Physiology Research at the Department of Physiology and Neurobiology, Eötvös Loránd University.

2014- : Lecturer of the mandatory MSc course Regulatory Biology and Physiology at the Department of Physiology and Neurobiology, Eötvös Loránd University.

2014- : Lecturer of the MSc course Introduction to Molecular Neurobiology, Eötvös Loránd University.

2014- : Lecturer in Mammalian and Human Histology and Developmental Biology for MSc students at the Department of Anatomy, Cellular and Developmental Biology, Eötvös Loránd University.

2014- : Organizer and Lecturer in Systems Biology mandatory MSc course at the Department of Biochemistry, Eötvös Loránd University.

2012- : Lecturer in Cell Biology and Neuroanatomy for medical students at the Department of Anatomy, Histology and Embryology, Semmelweis University.

2013 -: Invited lecturer at the mandatory Ph.D. course Neuroendocrinology at the Szentágothai János Neuroscience Doctoral Program of the Semmelweis University. The title of the lecture: Hormonal regulation of the maternal behaviour.

2012 -: Invited lecturer at the mandatory Ph.D. course Cellular and Molecular Neurobiology at the Szentágothai János Neuroscience Doctoral Program of the Semmelweis University. The titles of the lectures: Neuropeptides; Growth factors and their receptors in the central nervous system.

2010, 2012: Organizer and lecturer of the Ph.D. course Neuropeptides in the Nervous System at the Szentágothai János Neuroscience Doctoral Program of the Semmelweis University.

2010: Invited lecturer at the course Clinical and Theoretical Audiology organized by the State Health Center for the advanced education of medical doctors. The title of the lecture: The brain auditory system.

2009: Invited lecturer at the Ph.D. course Human Neuroanatomy 3 – Regulatory Systems at the Szentágothai János Neuroscience Doctoral Program of the Semmelweis University. The title of the lecture: The neuroanatomy of sleep, wakefulness and dreaming.

1999-2000: Instructor in Laboratory Practice and Seminar of Physiology at Semmelweis University.

1997-1998: Assistant Instructor in Laboratory Practice of Comparative Physiology in Eötvös University.

Reviewer activity

Grant proposal reviews:

Member of the following grant review panels of the Research Executive Agency, European Commission, Brussels, EU as expert evaluator and rapporteur:

Horizon 2020, PHC-14-2015, 2015

7th Framework Programme, Marie Curie Actions, 2010-2014

7th Framework Programme, KBBE Consortial Theme, 2010

Regular scientific reviewer for the following national agencies:

Research Technological Development & Innovation Actions, Greece

Research Promotion Foundation of Cyprus

National Office for Research and Technology, Hungary

Hungarian Scientific Research Fund, Hungary

Bolyai Fellowship, Hungarian Academy of Sciences, Hungary

National, Research, Development and Innovation Office, Hungary

Merit Award, Semmelweis University, Hungary

Manuscript reviews:

Registered reviewer with regular activity for the following international scientific journals: Endocrinology (over 10 manuscripts), The Journal of Clinical Endocrinology and Metabolism, PlosOne, European Journal of Nutrition, Reproductive Biology and Endocrinology, Experimental Neurology, Brain Research, Acta Physiologica Hungarica, Current Medicinal Chemistry, International Journal of Molecular Sciences, Journal of Neuroendocrinology, Neuropeptides, Neuroscience Letters, Physiological Research, Physiology and Behaviour, Proteomics, J Proteomics, Biological Psychiatry

Reviews for Ph.D. evaluations:

Opponent reviewer of Ph.D. dissertations at Semmelweis, Eötvös, and Pécs University Doctoral Schools 12 times since 2007.

Committee Member for Ph.D. defenses at Semmelweis and Eötvös University Doctoral Schools 12 times since 2008.

Examiner at Ph.D. final examinations at Semmelweis University Doctoral School 10 times since 2009.

Reviews for student competitions:

Reviewer at the PhD Symposium of the Semmelweis University in 2011 and 2012.

Committee member at the Scientific Student Competition at Semmelweis University in 2012, 2013, 2014, and 2015.

Committee member at the Scientific Student Competition at Eötvös Loránd University in 2008, 2012, and 2014.

Languages

English: advanced level C-type state certificate

German: intermediate level C-type state certificate

French: intermediate level C-type state certificatte

LIST OF PUBLICATIONS

Research articles, total impact factor: 463,575, H-index: 36 (Google scholar), 32 (WoS)

1. Koech PK, Jócsák G, Boldizsár I, Moldován K, Borbély S, Világi I, **Dobolyi A**, Varró P. (2023) Anti-gluatamatergic effects of three lignin compounds: arctigenin, matairesinol and trachelogenin – An ex vivo study on rat brain slices. *Planta Med*. doi: 10.1055/a-2005-5497.
   Impact factor: **3.007,** Q2

2. Keller D, Lang T, Cservenák M, Puska G, Barna J, Csillag V, Farkas I, Zelena D, Dóra F, Küppers S, Barteczko L, Usdin TB, Palkovits M, Hasan MT, Grinevich V, **Dobolyi A**. (2022) A thalamo-preoptic pathway promotes social grooming in rodents. *Current Biology*. 32:4593-4606. doi: 10.1016/j.cub.2022.08.062.
   Impact factor: **10.900,** Q1 (D1)

3. Renner É, Dóra F, Oszwald E, **Dobolyi Á**, Palkovits M. (2022) Elevated glucagon-like peptide-1 receptor level in the pareventricular hypothalamic nucleus of type 2 diabeted mellitus patients. *Int J Mol Sci*. 23:15945. doi: 10.3390/ijms232415945.
   Impact factor: **6.208,** Q1 (D1)

4. Keller D, Tsuda MC, Usdin TB, **Dobolyi A.** (2022) Behavioural actions of tuberoinfundibular peptide 39 (parathyroid hormone 2). *J Neuroendocrinol*. e13130. doi: 10.1111/jne.13130.
   Impact factor: **3.870,** Q2

5. Dóra F, Renner É, Keller D, Palkovits M, **Dobolyi Á.** (2022) Transcriptome profiling of the dorsomedial prefrontal cortex in suicide victims. *Int J Mol Sci*. 23:2518. doi: 10.3390/ijms23137067.
   Impact factor: **6.208,** Q1 (D1)

6. Koech PK, Boldizsár I, **Dobolyi A**, Varró P. (2022) Effects of dibenzylbutyrolactone lignans acrtigenin and trachelogenin on the motility of isolated rat ileum. *Toxicol Rep*. 9:1222-1232. doi: 10.1016/j.toxrep.2022.05.019
   Impact factor: Q1

7. Kumari R, Fazekas EA, Morvai B, Udvari EB, Dóra F, Zachar G, Székely T, Pogány Á, **Dobolyi Á.** (2022) Transcriptomics of parental care in the hypothalamic-septal region of female zebra finch brain. *Int J Mol Sci*. 23:2518. doi: 10.3390/ijms23052518.
   Impact factor: **6.208,** Q1 (D1)

8. Gelencsér-Horváth A, Kopácsi L, Varga V, Keller D, **Dobolyi Á**, Karacs K, Lőrincz A. (2022) Tracking highly similar rat instances under heavy occlusions: an unsupervised deep generative pipeline. *J Imaging.* 8:109. doi: 10.3390/jimaging8040109.
   Impact factor: **3.806,** Q2

9. Dimén D, Puska G, Szendi V, Sipos E, Zelena D, **Dobolyi A** (2021) Sex-specific parenting and depression evoked by preoptic inhibitory neurons. *iScience*. 24:103090. doi: 10.1016/j.isci.2021.103090.
   Impact factor: **6.107,** Q1 (D1)

10. Kopácsi L., **Dobolyi A**, Fóthi Á, Keller D, Varga V, Lőrincz A (2021) RATS: Robust Automated Tracking and Segmentation of Similar Instances. *Lecture Notes in Computer Science*. 12893:507-518. doi: 10.1007%2F978-3-030-86365-4_41.
   Impact factor: **1.363,** Q3

11. Lékó AH, Kumari R, Dóra F, Keller D, Udvari EB, Csikós V, Renner É, **Dobolyi A.** (2021) Transcriptome sequencing in the preoptic region of rat dams reveals a role of androgen receptor in the control of maternal behavior. *Int J Mol Sci*. 22:1517. doi: 10.3390/ijms22041517.
   Impact factor: **5.923,** Q1

12. Bódi V, Csikós V, Májer T, Tóth A, **Dobolyi Á**, Világi I, Varró P (2021) Zearalenone alters the excitability of rat neuronal networks after acute in vitro exposure. *Neurotoxicology*. 86:139-148. doi: 10.1016/j.neuro.2021.08.001.
   Impact factor: **4.294,** Q1

13. Csikós V, Varró P, Bódi V, Oláh S, Világi I, **Dobolyi A** (2020) The mycotoxin Deoxynivalenol activates GABAergic neurons in the reward system and inhibits feeding and maternal behaviours. *Arch Toxicol.* 94:3297-3313. doi: 10.1007/s00204-020-02791-6.
   Impact factor: **5.153,** Q1 (D1)

14. Tóth A, Pethő M, Keserű D, Simon D, Hajnik T, Détári L, **Dobolyi A** (2020) Complete sleep and local field potential analysis regarding estrus cycle, pregnancy, postpartum and post-weaning periods and homeostatic sleep regulation in female rats. *Sci Rep.* 10:8546. doi: 10.1038/s41598-020-64881-w.
   Impact factor: **4.011,** Q1 (D1)

15. **Dobolyi A**, Oláh S, Keller D, Kumari R, Fazekas EA, Csikós V, Renner É, Cservenák M (2020) Secretion and function of pituitary prolactin in evolutionary perspective. *Front Neurosci.* 14:621. doi: 10.3389/fnins.2020.00621.
   Impact factor: **4.677,** Q1

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57. Barbara Gellén, Katalin Völgyi, Balázs Györffy, Tamás Janáky, Zoltán Szabó, András Czurkó, István Hernádi, Gábor Juhász, **Árpád Dobolyi**, Katalin Adrienna Kékesi (2015) Proteomic investigation of the prefrontal cortex in the clomipramine model of depression. XV. Biannual Conference of the Hungarian Neuroscience Society. Budapest, Hungary. Abstract Number: P2/48.

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