

CURRICULUM VITAE

Name: Eszter Farkas
Date of birth: September 27, 1971
Citizenship: Hungarian
Scientific degree: Ph.D. (Neurobiology; 2001)
Institution: Department of Medical Physics and Informatics
 Faculty of Medicine and Faculty of Science and Informatics
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Position: Associate Professor
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Education:

- High school: Radnóti Miklós Kísérleti Gimnázium, Szeged, Hungary (1986-1990)
- University: József Attila University, Szeged, Hungary, Master's degree: biology Certificate No. 415/95, (1990-1995)
- PhD fellowship: Department of Animal Physiology, University of Groningen, The Netherlands (1997-2001)
- Project: Cerebrovascular risk factors for dementia. Dietary prevention of cerebrovascular disorders.
- Supervisor: Prof. Paul G.M. Luiten
- Habilitation: Department of Physiology, and Department of Medical Physics and Informatics, School of Medicine, University of Szeged, Hungary (2010)

Language skills:

- Hungarian: native language
- English: Hungarian State Examination (certificate No. 0052325)
- Dutch: Dutch State Examination (exam number: 941252)

Employment:

- Department of Anatomy and Neurobiology, Washington University, School of Medicine, St. Louis, U.S.A.:
 Research Assistant (1995-1997)
 Project: The neuroanatomy of the autonomic innervation of visceral organs; retroviral tract tracing.
 Supervisor: Prof. Arthur D. Loewy
- Faculty of Medicine, University of Szeged:
 - Department of Anatomy, Histology and Embryology: Assistant Research Professor (2002-2007)
 Projects: Cerebrovascular disorders and their pharmacological prevention. White matter lesions in the human brain. TNF-alpha- and beta-amyloid-induced cerebrovascular dysfunction.
 Supervisor: Prof. Ferenc Bari
 - Department of Physiology: Associate Research Professor (2008-2009)
 - Department of Medical Physics and Informatics: Associate Research Professor (2010-2014);
 Associate Professor (2015-)
 Project: Live imaging of peri-lesion spreading depression in stroke models

International research placements:

- Participant of the *TEMPUS* student exchange program; Department of Animal Physiology, University of Groningen, The Netherlands (October 1993-April 1994)
 Supervisor: Dr. Frans Maes
- Post doctoral researcher supported by Visiting Scholar grants of the Royal Netherlands Academy of Sciences; Department of Molecular Neurobiology, University of Groningen, The Netherlands (July-August, 2002; July-August 2003; July 2004; July 2006)
 Supervisor: Prof Dr. Paul G.M. Luiten
- Postdoctoral Fellow supported by the Wellcome Trust, Pharmacy, University of Bradford, United Kingdom (January 2007-June 2008)
 Supervisor: Prof. Dr. Tihomir P. Obrenovitch

Grants:

Principal investigator:

- Publication costs of PhD dissertation, Netherlands Heart Foundation, No. 2000P091: Nederlandse Hartstichting, 2500 NLG (2001)
- Research grant nr. F 042803 of the Hungarian Scientific Research Fund (OTKA): The effect of circulating beta-amyloid peptide on cerebral blood flow, and blood-brain barrier permeability against immune cells, 4.800.000 HUF (2003-2006)
- A young investigator grant from the Richter Gedeon Ltd., Hungary: The effect of cyclooxygenase enzyme inhibition on neurogenesis in the ischemic rat hippocampus, 1.500.000 HUF (2005)
- Research grant nr. NNF 78902 from the Norwegian Financial Mechanisms (NFM) and the Hungarian Scientific Research Fund (OTKA): Peri-infarct depolarization (PID) in acute focal cerebral ischemia, 15.206.000 HUF (2009-2011)
- Support of Excellence, University of Szeged, 500.000 HUF (2014)
- Research grant nr. K 111923 of the Hungarian Scientific Research Fund (OTKA): Spreading depolarizations in the ischemic rat brain: Age-dependence, and mechanisms behind the associated hemodynamic responses, 27.804.000 HUF (2015-2019)

Participant:

- Research grant nr. T 32566 of the Hungarian Scientific Research Fund (OTKA), Principal Investigator: Prof. Dr. András Mihály (2001-2004)
- Grant for Technological Research Development, nr. MU-00132/2002, from the Hungarian Ministry of Education, Principal Investigator: Prof. Dr. András Mihály (2003-2005)
- Grant nr. 08/2004 of the Hungarian National Office for Research and Technology (NKTH), Principal Investigator: Prof. Dr. Botond Penke (2005-2008)
- Research grant nr. K063401 of the Hungarian Scientific Research Fund (OTKA), Functional and morphological changes in a rat model of chronic cerebral hypoperfusion, Principal Investigator: Prof. Dr. Ferenc Bari (2006-2009)
- Research grant nr. K81266 of the Hungarian Scientific Research Fund (OTKA), The impact of aging on neurovascular coupling in the rat, Prof. Dr. Ferenc Bari (2010-2014)
- Hungarian Brain Research Program (Grant No. KTIA_13_NAP-A-I/13) Principal Investigator: Dr. Ferenc Domoki (2014-2018)

Conference bursaries:

- Conference Secretariat: Vascular Factors for Alzheimer's Disease (VFAD), Kyoto, Japan (2002)
- European Union: "The Human Brain", Rome, Italy (2002)
- Hungarian Scientific Research Fund nr. U046078 The First Congress of the International Society for Vascular Behavioural and Cognitive Disorders (Vas-Cog 2003), Göteborg, Sweden (2003)
- Conference Secretariat: The First Congress of the International Society for Vascular Behavioural and Cognitive Disorders (Vas-Cog 2003), Göteborg, Sweden (2003)
- Conference Secretariat: 4th Forum of European Neuroscience, Lisbon, Portugal (2004)
- Conference Secretariat: 22nd International Symposium on Cerebral Blood Flow, Metabolism, and Function (Brain'05), Amsterdam, The Netherlands (2005)

Scholarships and awards:

- Bolyai János Research Scholarship of the Hungarian Academy of Sciences, BO/00344/03 (2003-2006)
- Lenhossék prize from the Hungarian Society for Anatomy (2005)
- Ferenc Joó prize from the Dr. Ferenc Joó Fund for Brain Research, Szeged, Hungary (2005)
- Bolyai János Research Scholarship of the Hungarian Academy of Sciences, BO/327/14 (2014-2017)
- L'OREAL-UNESCO Hungarian Scholarship for Women in Science (2015)
- L'Oréal-UNESCO for Women in Science program, International Rising Talents Award (2016)

Society memberships:

- Hungarian Society for Anatomy (2001-2007)
- Hungarian Society for Neuroscience (Federation of European Neuroscience Societies) 2003-
- International Society for Cerebral Blood Flow and Metabolism (2005-)
- Hungarian Physiological Society (2014-)
- Hungarian Society for Microcirculation and Vascular Biology (2015-)

Editorial/Scientific Advisory Board Memberships:

- Editorial Board Member, The Open Circulation & Vascular Journal, Bentham Sciences (2008-2013)
- Editorial Board Member, Therapeutic Targets for Neurological Diseases, (open access, peer-reviewed, online journal) (2014-)
- Scientific Advisory Board Member, VPH-DARE@IT (Virtual Physiological Human: Dementia Research Enabled by IT; <http://www.vph-dare.eu/>) (2014-)
- Board Member, Neuroscience Section of the Hungarian Scientific Research Fund (OTKA) (2016-)

Conference organization:

- 79th Annual Meeting of the Hungarian Physiological Society, Szeged, Hungary; May 27-30, 2015.

Conference symposium organization:

- Regulation of platelet function and thrombosis under flow conditions. Organizers: Naseem, K.M., Farkas, E., 25th Conference of the European Society for Microcirculation, Budapest, Hungary; August 26-29, 2008.
- Emerging mechanisms in neurodegenerative disorders - The role of spreading depression (CSD). Organizers: Bari F., Farkas E. 7th Forum of European Neuroscience, Amsterdam, The Netherlands; July 3-7, 2010.
- Disorders of the cerebral circulation. Organizer: Farkas, E. 79th Annual Meeting of the Hungarian Physiological Society, Szeged, Hungary; May 27-30, 2015.
- Basic Research, experimental, preclinical studies. Organizer: Farkas, E. 12th Meeting of the Hungarian Stroke Society, Sopron, Hungary; September 17-19, 2015.

Teaching activity:*Gradual program:*

- Biology MS program, Department of Animal Physiology, University of Groningen, The Netherlands: language: English and Dutch
 - Neuroanatomy practical (1998-2000)
 - Rat anatomy practical (2001)
 - Experimental laboratory practical (1997-2000)
 - Employment possibilities with biology degree: orientation course, lecture (1999)
- Medical education, Faculty of Medicine, University of Szeged, Hungary: language: Hungarian and English
 - Histology practical (2002-2006)
 - Embryology seminar (2002-2006)
 - Neurocytology lecture (2004-2006)
 - Molecular cytology and histology lecture (2004-2006)
 - Cerebral blood flow lecture (2005-)
 - Medical Physics practical (2009-)
- Project supervisor:
 - Diploma work supervisor, (Faculty of Medicine, University of Szeged, Hungary (2013-)
 - Undergraduate research project supervisor for the National Scientific Students' Associations; Jury member at Conferences of Scientific Students' Associations, Faculty of Medicine, University of Szeged, Hungary (2002-)
 - Szent-Györgyi Mentor, Foundation for the Future of Biomedical Sciences in Szeged, Faculty of Medicine, University of Szeged, Hungary (2013-)
 - Research placement supervisor, Joint Program of European Medical Students (JPEMS), Faculty of Medicine, University of Szeged, Hungary (2015-)

Post-gradual program:

- PhD project supervisor: academic staff member of the Doctoral School of Clinical Medicine (2007-), and the Theoretical Medicine Doctoral School (2014-), Faculty of Medicine, University of Szeged, Hungary

Scientometrics:

- Full papers: 56
- Books/book chapters: 8
- Cumulative impact factor: 171.971
- Independent citations: 1859
- H-index: 23

- Link to list of publications (data bank of the Hungarian Academy of Sciences):
https://vm.mtmt.hu/search/slist.php?AuthorID=10028905&jelleg=1&cite_type=2&orderby=3D1a