

Curriculum vitae

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senior research associate

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Education

2003: Diploma in medicine, University of Medicine and Pharmacy, Tg. Mureş, Romania

2009: PhD in theoretical medicine, University of Szeged, Szeged, Hungary

2016: Habilitation, Vasile Goldiș Western University of Arad, Arad, Romania; OM4873/11-08-2016

Positions

2003-2004: International Training Course fellow, Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

2004-2007: PhD student, University of Szeged, Szeged, Hungary and Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

2007: Department of Physiology, Biophysics and Neuroscience, Cinvestav, Mexico City (2 months)

2007-2009: Junior research associate, Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

2009-2016: Research associate, Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

2016-: Senior research associate, Institute of Biophysics, HUN-REN Biological Research Centre, Szeged, Hungary

2016-: Professor in Biology Doctoral School (Vasile Goldiș Western University of Arad, Arad, Romania)

Scientific interest

blood-brain barrier, neurovascular unit, cerebral endothelium, pericytes, tight junctions, signaling, brain metastases, melanoma, breast cancer, metastatic niche, proteases, exosomes, miRNAs, neuroinflammation, inflammasomes, aging

Honors and awards

2008: Prize of the Dr. Ferenc Joó Foundation for Brain Research

2011: Tibor Kovács Award

2011: Maya and Nicolae Simionescu Prize (Romanian Society for Cell Biology)

2012: Bolyai Fellowship (Hungarian Academy of Sciences)

2013: Junior Award of the Hungarian Academy of Sciences

2016: Bolyai Certificate (Hungarian Academy of Sciences)

2016: Bolyai Fellowship (Hungarian Academy of Sciences)

2018: Bolyai+ Fellowship (New National Excellence Program of the Ministry of Human Capacities)

2019: Dr. Tibor Farkas Memorial Prize

2021: L'Oréal-UNESCO for Women and Science Hungarian Scholarship

2023: KGYNK Scholarship for scientists raising children (Hungarian Academy of Sciences)

Research grants as principal investigator

- Hungarian Research Fund, Hungary: OTKA-PD100958 (2012-2015), “Role of the neural environment in the transmigration of melanoma cells through the blood-brain barrier”
- National Research, Development and Innovation Office, Hungary: NKFIH-FK124114 (2017-2021), “Role of brain pericytes in the formation of central nervous system metastases”
- Executive Agency for Higher Education, Research, Development and Innovation Funding UEFISCDI, Romania: PN-III-P1-1.1-TE-2016-1352 (2018-2020), “Interaction of pericytes with melanoma and breast cancer cells during formation of cerebral metastases”
- Executive Agency for Higher Education, Research, Development and Innovation Funding UEFISCDI, Romania: PN-III-P1-1.1-TE-2019-1302 (2020-2022), “Brain pericytes as key modulators of the perivascular metastatic niche”
- National Research, Development and Innovation Office, Hungary: NKFIH-K135475 (2020-2024), “Tumour cell-induced pericyte responses during brain metastasis development”

Language skills

Hungarian: native speaker

Romanian: reading, writing and oral (advanced level)

English: reading, writing and oral (advanced level), exam: CAE, 2002

German: reading and writing (intermediate level), exam: TELC, 2008

Memberships

- 2020- Szent-Györgyi mentor, Szeged Scientists Academy/National Academy of Scientist Education
- 2021-2023: member, scientific jury, Neuroscience Panel, National Research, Development and Innovation Office (NRDIO), Hungary
- 2021-2026: member (2022-2023: board member, 2023-2025: co-chair), Hungarian Young Academy
- 2021-: member, International Brain Barriers Society
- 2021-: member, Romanian Society for Cell Biology
- 2021-2024: external member, Doctoral Council of Medicine and Pharmacy, University of Szeged
- 2022-2029: member, Young Academy of Europe
- 2022-: member, ELKH/HUN-REN International Coordination Working Group
- 2023-: member, Scientific Evaluation Committee of the Hungarian Academy of Sciences
- 2023-: member, Hungarian Society For Experimental and Clinical Pharmacology

Other scientific activities

- reviewer for scientific journals: Clin Cancer Res, BBA - Reviews on Cancer, Cancer Letters, Cell Biochem Funct, Int J Pharm, Cell Adh Migr, Curr Med Chem, Curr Pharm Des, Dose Response, Mol Cell Neurosci, Mol Pharm, Nanomedicine, Pharm Rep, BMC Cancer, J Neuroinflammation, Neurotherapeutics, Sci Rep, Pharmaceutics, Int J Mol Sci, Front Immunol, Br J Cancer, Cancers, Cell Commun Signal, Cancer Metastasis Rev, Fluids Barriers CNS
- remote evaluator for project proposals: EU-H2020 FET-OPEN programme (2017), NRDIO (2021-2023), EU-HORIZON-EIC-Pathfinder OPEN (2021-2023), Neurological Foundation (New Zealand, 2023)
- opponent in MSc and PhD committees: University of Lisbon, University of Pécs, University of Szeged, University of Verona, Péter Pázmány Catholic University
- editorial board member: Biomedicines (2021-), Front Pharmacol (2023-); guest editor: Curr Pharm Des - Thematic Issue: Pharmacological targeting of biological barriers (2016); Front Pharmacol - Thematic Issue: Targeting neuro-immuno-vascular interactions in the brain and the periphery (2020)
- member of organizing committee: 21st International Symposium on "Signal Transduction at the Blood-Brain Barriers" (September 19-21, 2018, Arad, Romania); 34th Conference of the European Microcirculation Society (May 19-22, 2025, Szeged, Hungary)
- science communication and science policy activity: Researchers' Night lecturer (since 2014), Brain Awareness Week lecturer (since 2018), Thematic Issue in *Magyar Tudomány*: "Hungarian Young Academy: The Situation and Representation of Early-Career Researchers in Hungary" (guest editor and author)
- study director in several pharmaceutical industry projects

Teaching and mentoring activities

-mentor/supervisor (MSc/MD students, University of Szeged, Szeged, Hungary) – students who obtained degree: Márta Volford (2016, MD – co-supervisor), Kinga Molnár (2016, MSc), Fanni Győri (2018, MSc), Szabolcs Fazekas (2020, MSc – co-supervisor), Árki Virág (2023, MSc – co-supervisor); local student's conference prize winners: Fanni Győri (2018, 3rd), Virág Árki (2022, 2nd), Adél Lüvi (2023, special prize); national student's conference prize winner: Virág Árki (2023, 3rd)

-mentor/supervisor (PhD students, University of Szeged, Szeged, Hungary) – students who obtained their degree: Judit Molnár (2016, Theoretical Medicine Doctoral School – co-supervisor), Kinga Mészáros-Molnár (2021, Theoretical Medicine Doctoral School); current PhD students: Fanni Győri and Valentina Nagy (Theoretical Medicine Doctoral School)

-lecturer (University of Szeged; course title: Physiology and Pathology of the Neurovascular Unit) – since 2015

-Lecturer and expert in post-gradual projects:

·International Training Course, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary (2014-2019, topic: Molecular structure and function of biological barriers)

·Autumn School, HURO/1101/173/2.2.1, Vasile Goldiș Western University of Arad, Arad, Romania (2014, topic: Brain metastases)

·POSDRU 81/3.2/S/55362, Vasile Goldiș Western University of Arad, Arad, Romania (2012, topic: Cell culture)

Scientific results

Number of in extenso publications in periodicals: 63

Q1 papers: 48

first/last/corresponding author papers: 20

Number of book chapters: 5

Cumulative IF: 245.69

Number of citations: 3222 (Google Scholar)

H-index: 31 (Google Scholar)

Publications:

<https://scholar.google.com/citations?user=j6m12MAAAAAJ&hl=en>