

Curriculum Vitae

PERSONAL DATA:

First/Last Name: MELINDA PAIZS , Ph.D.

Work address: INSTITUTE OF PHARMACOGNOSY
University of Szeged, Hungary
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Current position: Research associate

Nationality: Hungarian

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ACADEMIC BACKGROUND:

2011 **PhD degree in Neurobiology** - Faculty of Medicine, University of Szeged, field of Theoretical Medical Sciences. Title of the thesis: **ASSOCIATION OF CALCIUM BUFFERING CAPACITY AND LOCAL INFLAMMATORY REACTIONS IN INJURY OF MOTOR NEURONS**

2006 – 2009 **PhD student** - Faculty of Medicine, University of Szeged, field of Theoretical Medical Sciences

2001 – 2006 **M.Sc. in Biology** – University of Szeged, Hungary, Faculty of Sciences, Majoring in Biology

1995 – 1999 **Bolyai Farkas High School**, Tirgu-Mures, Romania (special class of chemistry and biology)

LANGUAGES:

English Intermediate level
French Intermediate level
Romanian Advanced level

Hungarian Native language

RESEARCH AND PROFESSIONAL EXPERIENCE:

2025 - **Research associate** – Institute of Pharmacognosy, University of Szeged (Hungary)

2022 – 2024 **Biology researcher - HR-Pharma Ltd.** - Laboratory diagnostics and research related to laboratory diagnostics, Szeged (Hungary)

- 2015 – 2022** **Postdoctoral fellow – “Inhibitory interneuron and plasticity group”-**
Neuroscience Program of Hungarian Academy of Sciences, Department of
Biology, University of Szeged (Hungary)
- 2011– 2014** **Research associate -** Laboratory of Molecular Neurobiology, Institute of
Biophysics, HUN-REN Biological Research Centre Szeged (Hungary)
- 2009 - 2010** **Junior Research Associate -** Laboratory of Molecular Neurobiology, Institute
of Biophysics, HUN-REN Biological Research Centre Szeged (Hungary)
- 2008 - 2010** **“Study of the role of AMPA receptor mediated toxicity in the pathogenesis
of motor neurons death in Cu/Zn superoxide dismutase (SOD1) mutant
mice” -** Mario Negri Institute for Pharmacological Research, **Milan (Italy)**

LIST OF PUBLICATIONS:

Alburqana M, Kincses A, Paizs M, Barta A, Veres K, Csámpai A, Yazdanic M and Hohmann J. Adjuvant potential of *Satureja hortensis* metabolites with antibiotics against Gram-positive and Gram-negative bacterial strains. *Pharmaceutical Biology* (2025) – IF: 4,8

Paizs M, Szegedi V, Baka J, Barzó P, Molnár G, Tamas G, Lamsa K. Robust perisomatic GABAergic self-innervation inhibits basket cells in the human and mouse supragranular neocortex. *ELIFE* (2020) - IF: 6,4

Kotzadimitriou D, Nissen W, Paizs M, Newton K, Harrison PJ, Paulsen O, Lamsa K. Neuregulin 1 Type I Overexpression Is Associated with Reduced NMDA Receptor-Mediated Synaptic Signaling in Hippocampal Interneurons. Expressing PV or CCK. *eNEURO* (2018) – IF: 2,9

Szegedi V, Molnár G, Paizs M, Csakvari E, Barzó P, Tamás G, Lamsa K. High-Precision Fast-Spiking Basket Cell Discharges during Complex Events in the Human Neocortex. *eNEURO* (2017) IF: 2,9

Patai R, Paizs M, Tortarolo M, Bendotti C, Obál I, Engelhardt JI, Siklós L. Presymptomatically applied AMPA receptor antagonist prevents calcium increase in vulnerable type of motor axon terminals of mice modeling amyotrophic lateral sclerosis. *BIOCHIM BIOPHYS ACTA* (2017) – IF: 3

Paizs M, Patai R, Engelhardt JI, Katarova Z, Obal I, Siklos L. Axotomy Leads to Reduced Calcium Increase and Earlier Termination of CCL2 Release in Spinal Motoneurons with Upregulated Parvalbumin Followed by Decreased Neighboring Microglial Activation. *CNS NEUROL DISORD DRUG TARGETS* (2017) – IF: 2,7

Szegedi V, Paizs M, Csakvari E, Molnar G, Barzo P, Tamas G, Lamsa K. Plasticity in Single Axon Glutamatergic Connection to GABAergic Interneurons Regulates Complex Events in the Human Neocortex. *PLoS BIOL* (2016) - IF: 7,8

Adalbert R, Morreale G, Paizs M, Conforti L, Walker SA, Roderick HL, Bootman MD, Siklós L, Coleman MP. Intra-axonal calcium changes after axotomy in wild -type and slow Wallerian degeneration axons. *NEUROSCIENCE* (2012) – IF: 3

Paizs M, Tortarolo M, Bendotti C, Engelhardt JI, Siklós L. Talampanel reduces the level of motoneuronal calcium in transgenic mutant SOD1 mice only if applied presymptotically. ***AMYOTROPHIC LATERAL SCLEROSIS (2011) – IF: 4,2***

Paizs M, Engelhardt JI, Katarova Z, Siklós L. Hypoglossal Motor Neurons Display a Reduced Calcium Increase After Axotomy in Mice with Upregulated Parvalbumin. ***JOURNAL OF COMPARATIVE NEUROLOGY (2010) – IF: 3,028***

Paizs M, Engelhardt JI, Siklós L. Quantitative assessment of relative changes of immunohistochemical staining by light microscopy in specified anatomical regions. ***JOURNAL OF MICROSCOPY-OXFORD (2009) – IF: 2,04***