

Curriculum Vitae

Name: István Katona

Date of Birth: 10/10/1973

Nationality: Hungarian

Full postal address: Momentum Laboratory of Molecular Neurobiology, Department of Molecular and Developmental Neurobiology, Institute of Experimental Medicine, Hungarian Academy of Sciences (IEM HAS), Szigyony utca 43, Budapest, Hungary, H-1083

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Education:

1. PhD in Neuroscience: János Szentágotthai Doctoral School of Neurosciences, Semmelweis Medical University, Budapest, Hungary (09/1997-09/2000).
2. MSc in Biology: Loránd Eötvös University, Budapest, Hungary (09/1992-06/1997).

Professional experience:

1. Professor, Head of Department of Molecular and Developmental Neuroscience, Institute of Experimental Medicine, Hungarian Academy of Sciences (since 01/2011).
2. Visiting Professor, Department of Neurobiology and Anatomy, University of Cagliari, Italy, Host: Prof. Miriam Melis, (06/2017-07/2017).
3. Visiting Professor, Department of Neurobiology and Anatomy, University of California, Irvine, USA, Host: Prof. Ivan Soltész, (01/2011-06/2011 and 01/2012-03/2012).
3. Senior Research Fellow, Head of Laboratory of Molecular Neurobiology, IEM HAS (01/2007-12/2010).
4. Bolyai Research Fellow, Cerebral Cortex Research Group, Head: Prof. Tamás F. Freund, IEM HAS, (01/2003-12/2006).
5. Visiting scientist, Laboratory for Neuronal Circuit Development, RIKEN BSI, Wako-shi, Japan, Head: Prof. Takao K. Hensch, (06/2004-09/2004).
6. EMBO Postdoctoral Fellow, Department of Molecular Neurobiology, Max-Planck Institute for Medical Research, Heidelberg, Germany, Head: Prof. Peter Seeburg and Prof. Hannah Monyer, (09/2000-12/2002).

7. PhD student, Laboratory of Functional Neuroanatomy, IEM HAS, Supervisor: Prof. Tamás F. Freund, (09/1997-09/2000).

8. Student Research Assistant, Laboratory of Functional Neuroanatomy, IEM HAS, Supervisor: Prof. Tamás F. Freund, (10/1993-08/1997).

Awards:

NIH Neuroscience Seminar Series Lecture, Bethesda, MD in 2017

Elected member of EMBO in 2016

Hungarian Academy of Sciences' Academy Prize for outstanding scientific achievements in 2016

NIH COBRE Lecture, National Center for Natural Products Research, Oxford, MS in 2016

Elected member of the Academia Europea in 2013

Momentum Award of the Hungarian Academy of Sciences in 2013

The Wellcome Trust International Senior Research Fellowship in 2010

European Research Council, Starting Independent Researcher Grant in 2009

IACM Award "for a considerable contribution to cannabinoid research" in 2009

Included in the top 1% of most cited Neuroscientists according to Web of Science since 2008

Central European Talent Award, Best Life Scientist in 2007

János Bolyai Fellow, 2003-2006, 2007-2010, Excellent Achievements Category

European Molecular Biology Organization (EMBO), Long-term Fellowship, 2000-2002

Eötvös Hungarian State Fellowship, 2000

Richter-Gedeon Research Award, 1997

Pro Renovanda Culturae Hungariae Student Scholarship, 1996-1997

Scholarship of the Hungarian Republic, 1996

Student of the Year Award, Loránd Eötvös University, Budapest, Hungary, 1996

National and International Service:

Hungarian Scientific Research Fund, Neuroscience Study Section, Member 2012-2014, Head 2016.

Advisory Board, Research Institutes of Hungarian Academy of Sciences, Life Science Section, 2015-

Programme Committee of the 15th Biannual Conference of the Hungarian Neuroscience Society, 2014

Programme Committee of the 8th FENS Forum, Member, 2012, Barcelona, Spain

Young Investigator Advisory Board of the President of the Hungarian Academy, Member, 2008

Professional Societies:

Member, International Cannabinoid Research Society (2006-present)

Member, Society for Neuroscience (2006-present)

Member, Federation of European Neurosciences (1996-present)

Member, Hungarian Neuroscience Society (1996-present)

Summary of publication activity:

Peer-reviewed papers:	55
Citations (Scholar):	9775
Impact factors:	484
h-index:	39

Selected important publications:

1. Katona I, Sperlagh B, Sik A, Kofalvi A, Vizi ES, Mackie K and Freund TF (1999) Presynaptically located CB1 cannabinoid receptors regulate GABA release from axon terminals of specific hippocampal interneurons. *The Journal of Neuroscience*, 19: 4544-4558.
2. Katona I, Urban GM, Wallace M, Ledent C, Jung KM, Piomelli D, Mackie K and Freund TF (2006) Molecular composition of the endocannabinoid system at glutamatergic synapses. *The Journal of Neuroscience*, 24:5268-5237.
3. Katona I and Freund TF (2008) Endocannabinoid signaling as a synaptic circuit breaker in neurological disease. *Nature Medicine*, 14:923-930.
4. Ludanyi A, Eross L, Czirjak S, Vajda P, Halasz P, Watanabe M, Palkovits M, Magloczky Z, Freund TF and Katona I (2008) Downregulation of the CB1 cannabinoid receptor and related molecular elements of the endocannabinoid system in epileptic human hippocampus. *The Journal of Neuroscience*, 28:2976-2990.
5. Jung KM, Sepers M, Henstridge CM, Lassalle O, Neuhofer D, Martin H, Ginger M, Frick A, DiPatrizio NV, Mackie K, *Katona I, *Piomelli D and *Manzoni OJ (2012) Uncoupling of the endocannabinoid signaling complex in a mouse model of fragile X syndrome. *Nature Communications*, 3:1080. (*as equal corresponding author)
6. Katona I and Freund TF (2012) Multiple functions of endocannabinoid signaling in the brain. *Annual Review of Neuroscience*, 35:529-558.
7. Peterfi Z, Urban GM, Papp OI, Nemeth B, Monyer H, Szabo G, Erdelyi F, Mackie K, Freund TF, Hajos N and Katona I (2012) Endocannabinoid-mediated long-term depression of afferent excitatory synapses in hippocampal pyramidal cells and GABAergic interneurons. *The Journal of Neuroscience*, 32:14448-14463.

8. Lee SH, Ledri M, Tóth B, Marchionni I, Henstridge CM, Dudok B, Kenesei K, Barna L, Szabó SI, Renkecz T, Oberoi M, Watanabe M, Limoli CL, Horvai G, Soltesz I and Katona I (2015) Multiple Forms of Endocannabinoid and Endovanilloid Signaling Regulate the Tonic Control of GABA Release. *The Journal of Neuroscience*, 35:10039-57.
9. Dudok B, Barna L, Ledri M, Szabó SI, Szabadits E, Pintér B, Woodhams SG, Henstridge CM, Balla GY, Nyilas R, Varga C, Lee SH, Matolcsi M, Cervenak J, Kacs Kovics I, Watanabe M, Sagheddu C, Melis M, Pistis M, Soltesz I and Katona I (2015) Cell-specific STORM superresolution imaging reveals nanoscale organization of cannabinoid signaling. *Nature Neuroscience*, 18:75-86.
10. Barna L, Dudok B, Miczán V, Horváth A, László ZI and Katona I (2016) Correlated confocal and super-resolution imaging by VividSTORM. *Nature Protocols*, 11:163-183.

Grant Reviewer:

Agence Nationale de la Recherche, *France*; Biotechnology and Biological Sciences Research Council, *UK*; Wellcome/DBT India Alliance, *India*; Deutsche Forschungsgemeinschaft, *Germany*; European Molecular Biology Organization, *EU*; European Research Council, *EU*; Fundação para a Ciência e a Tecnologia, *Portugal*; National Research, Development and Innovation Fund, *Hungary*; Hungarian Academy of Sciences, Momentum Program and Young Researcher Program, *Hungary*; Hungarian Brain Research Program, *Hungary*; Medical Research Council, *UK*; National Science Foundation, *USA*; Research Council, K.U. Leuven, *Belgium*; The Wellcome Trust, *UK*

Editorial Boards:

European Journal of Neuroscience (2008-present)
Frontiers in Integrative Neurosciences (2008-present)
Frontiers in Neuroanatomy (2008-present)
Frontiers in Synaptic Neuroscience (2012-present)
Cannabis and Cannabinoid Research (2015-present)

Invited Reviewer: Science, Nature Medicine, Nature Neuroscience, Nature Communications, Nature Protocols, PNAS, The Journal of Neuroscience, The Journal of Experimental Medicine, Brain, Cerebral Cortex, Neuropsychopharmacology, The Journal of Physiology (London), Molecular Pharmacology, The FASEB Journal, European Neuropsychopharmacology, Journal of Comparative Neurology, British Journal of Pharmacology, Neuroimage, Neuropharmacology, European Journal of Neuroscience, Journal of Neurochemistry, Journal of Neurophysiology, Brain Structure and Function, Translational

Psychiatry, Molecular Metabolism, Neurobiology of Aging, Scientific Reports, Molecular and Cellular Neuroscience, Journal of Proteome Research, PLoS One, Molecular and Cellular Endocrinology, F1000Research, Frontiers in Integrative Neurosciences, Hippocampus, Neuroscience, Frontiers in Neuroanatomy, Methods and Applications in Fluorescence, Endocrine, CNS & Neurological Disorders, Epilepsy Research, Multiple Sclerosis Journal, BBA-Molecular Cell Research, Pharmaceuticals, Neurochemistry International, Neuroscience Research, Journal of Chemical Neuroanatomy, Brain Research, Cellular Physiology and Biochemistry, Brain Research Bulletin, Cell and Tissue Research, Acta Biologica Hungarica

Invited Lectures and Organized Symposia:

2017: NIH Neuroscience Seminar Series, Porter Neuroscience Research Center, *Bethesda*, USA; 32nd International Epilepsy Congress, Symposium on Cannabinoids in epilepsy: the new frontier of pharmacological treatment, *Barcelona*, Spain; FENS Featured Regional Meeting, Symposium on Imaging the brain and cerebrospinal fluid at a single-molecule level, *Pécs*, Hungary; Neuroscience Seminar, Università degli Studi di Cagliari, *Cagliari*, Italy; ReceptorLight High-End Light Microscopy Symposium, *Würzburg*, Germany; Symposium on Ti microscope applications, European Sales Meeting, Nikon Instruments Europe, *Rome*, Italy

2016: EMBO Members Meeting, *Heidelberg*, Germany; Neural Circuit Development and Plasticity, Universiteit Utrecht Summer School, *Utrecht*, The Netherlands; Joint Conference of the Hungarian Pharmacology, Anatomy, Microcirculation and Physiological Societies, *Pécs*, Hungary; 16th Annual Meeting of the European Light Microscopy Initiative, *Debrecen*, Hungary; Neuroscience Seminar, Hotchkiss Brain Institute, University of *Calgary*, Canada; Neuroscience Seminar, University of Arkansas for Medical Sciences, *Little Rock*, USA; NIH COBRE Distinguished Speaker at the National Center for Natural Products Research, University of Mississippi, *Oxford*, USA; Neuroscience Seminar, Allen Institute for Brain Science *Seattle*, USA; Neuroscience Seminar, University of Washington, School of Medicine, *Seattle*, USA

2015: 4th International Frontiers in Neurophotonics Symposium, *Quebec*, Canada; Symposium on Advances in Medical Bioimaging, Charité Universitäts Medicine, *Berlin*, Germany; Symposium on Superresolution Microscopy in Biological Sciences, Multinational Congress on Microscopy (organizer), *Eger*, Hungary; 63rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (plenary speaker), *Budapest*, Hungary; Super-resolution in different dimensions, International Meeting on Advanced Microscopy, *Moscow*, Russia; Cannabinoid Function in the CNS, Gordon Research Conference (discussion leader), *Il Ciocco*, Italy;

Neuroscience Seminar, Eötvös Loránd University, *Budapest*, Hungary; Neuroscience Seminar, University of Medicine and Pharmacology, *Tirgu Mures*, Romania

2014: Symposium on Superresolution Microscopy (organizer and speaker), International Brain Research Organization Workshop, *Debrecen*, Hungary; Nanoscopy Conference, *Amsterdam*, The Netherlands; Symposium on Monoclonal Antibody Therapies BIO International Congress, *San Diego*, USA; Neuroscience Seminar, Scripps Institute, *La Jolla*, USA; 8th International Meeting on Metabotropic Glutamate Receptors, *Taormina*, Italy; Neuroscience Seminar, Freie Universitat, *Berlin*, Germany; Neuroscience Seminar, University of Maryland, *Baltimore*, USA; Endocannabinoids and Related Mediators, Society for Neuroscience, Annual Meeting symposium, *Washington*, USA; Symposium on “Super-resolution imaging approaches in Neuroscience” (organizer), National Programme in Brain Sciences workshop, *Budapest*, Hungary; Super-Resolution Nanoscopy: Vision Beyond the Limits, MIC symposium, *Bern*, Switzerland

2013: Benefri Neuroscience Workshop, Methods in Experimental and Clinical Neuroscience, *Berne*, Switzerland; Neuroscience Seminar, University of *Zürich*, Switzerland; Neuroscience Seminar, Semmelweis University, *Budapest*, Hungary; “From the Synapse to networks and disease”, Inaugural Neuroscience Conference, *Irkutsk*, Russia; 2013; Gordon Conference on Cannabinoid signaling in the nervous system, *Waterville*, NH, USA; “Inhibitory control of brain plasticity”, Neuroscience Conference, *Krakow*, Poland; 13th Austrian Neuroscience Association Meeting, *Vienna*, Austria; Neuroscience Seminar, College de France, *Paris*, France; Wellcome Trust Researcher Meeting, *Ashridge*, UK; Neuroscience Seminar, Nikon Bioscience Development Department, *Yokohama*, Japan; Symposium on Translational Research, Hungarian Academy of Sciences, *Budapest*, Hungary; Neuroscience Seminar, Universitat Johannes Gutenberg, *Mainz*, Germany

2012: Neuroscience Seminar, University of California, *Irvine*, USA; Neuronus 2012 IBRO Neuroscience Forum, *Krakow*, Poland; Symposium on “The cannabinoid system as a therapeutic target in neurological disorders” satellite meeting for the 8th FENS Forum, *Barcelona*, Spain; Cold Spring Harbor Laboratory and University Pompeu Fabra joint conference on “International course on the cellular biology of addiction”, *Barcelona*, Spain; Neuroscience Seminar, Charité Universitäts Medizin, *Berlin*, Germany

2011: Neuroscience Seminar, Stanford University, *Palo Alto*, USA; SiNAPSA Neuroscience Conference, FENS Featured Regional Meeting, *Ljubljana*, Slovenia (as organizer); 7th International Meeting on Metabotropic Glutamate Receptors, *Taormina*, Italy

2010: 7th FENS Forum of European Neuroscience, *Amsterdam*, The Netherlands (as organizer); International Symposium on the Endocannabinoid System: From Physiology to Pathophysiology, *Bonn*, Germany

2009: Neuroscience Seminar, IZN-Goethe Universitat, *Frankfurt*, Germany; Neuroscience Seminar, Richter-Gedeon Ltd, *Budapest*, Hungary; Neuroscience Seminar, Institute of Biochemistry, *Coimbra*, Portugal; 4th European Workshop on Cannabinoid Research, *Madrid*, Spain; Gordon Research Conference on Cannabinoid Function in the CNS, *Biddeford*, Maine; Symposium on Endocannabinoid Mechanisms in Brain Disease, Society for Neuroscience, Annual Meeting, *Chicago*, USA

2008: Neuroscience Seminar, MRC Anatomical Neuropharmacology Unit, *Oxford*, UK; Neuroscience Seminar, Max Planck Institute for Brain Research, *Frankfurt*, Germany; International Cannabinoid Research Society, *Aviemore*; UK; Neuroscience Seminar, *Dundee*, UK; Neuroscience Seminar, Abbott GMBH, Center for Drug Discovery, *Ludwigshaven*, Germany; Neuroscience Seminar, Department of Pharmacology and Toxicology, University of *Zürich*, Switzerland; Symposium on “Cannabinoids and Pain”, European Winter Brain Conference, *Les Arcs*, France

2007: Symposium on “Cannabinoid Signaling in the Nervous System”, 17. Neuropharmacology conference, *San Diego*, USA; Symposium on “Endocannabinoid Functions in the Developing and Adult Nervous System”, Karolinska Institute, *Stockholm*, Sweden; Symposium on “Synapses, Cells and Networks in Cortical Microcircuits”, Hungarian Neuroscience Society, *Szeged*, Hungary; Genaddict EU Consortium Symposium, *Bonn*, Germany

2006: Symposium on Cannabinoid Research in Pain, University of *Heidelberg*, Germany; Genaddict EU Consortium Symposium, *Barcelona*, Spain; International Cannabinoid Research Society Annual Meeting, *Tihany*, Hungary; Molecular Pharmacology Symposium, Hungarian Biochemical Society, *Balatonoszod*, Hungary

2004: Neuroscience Seminar, National Institute of Physiological Sciences, *Okazaki*, Japan; Neuroscience Seminar, RIKEN Brain Science Institute, *Wako-shi*, Japan

2002: Neuroscience Seminar, Pharmakologisches Institut, *Heidelberg*, Germany

2000: Neuroscience Seminar, Friedrich Miescher Institute, *Basel*, Switzerland

Funding ID (as PI):

1. Agency: National Research, Development and Innovation Office, Competitive Central Hungary Operative Programme (CCHOP) European funds for the Central Hungary region. Title: Equipment grant for the development of super-resolution pharmaco-microscopy to study the operation the brain and its disorders. Period: 2017-2018.

2. Agency: National Research, Development and Innovation Office, Highly Cited Papers Research Grant, Title: Controlling hippocampal GABAergic neurotransmission by the DGL-alpha enzyme. Period: 2017-2019.
3. Agency: National Research, Development and Innovation Office, Title: The Abhd4 serine hydrolase, an enigmatic member of the endocannabinoid system: molecular, anatomical and functional characterization in the developing neocortex. Period: 2016-2020.
4. Agency: National Institute of Health RO1 grant, Title: Cannabinoid control of epilepsy (Co-PI with Ivan Soltesz, Stanford University, USA). Period: 2017-2022.
5. Agency: National Institute of Health RO1 grant, Title: Mechanisms underlying radiation and chemotherapy induced cognitive impairment (Co-PI with Charles Limoli, University of California, Irvine, USA). Period: 2016-2021.
6. Agency: National Programme in Brain Sciences, Title: Equipment grant to apply optogenetic approaches in patch-clamp recording. Period: 2015-2016.
7. Agency: National Research, Development and Innovation Office, Title: New research, diagnostic and therapeutic target identification and analysis by super-resolution imaging and immunolabeling-based approaches (Co-PI as consortium member). Period: 2015-2019.
8. Agency: Hungarian Academy of Sciences, Momentum Programme, Title: Quantitative molecular characterization of synaptic endocannabinoid signaling. Period: 2013-2018.
9. Agency: Hungarian Academy of Sciences, Title: Equipment grant to study the nanoscale architecture of the brain. Period: 2012-2013.
10. Agency: The Wellcome Trust, Title: Molecular architecture and physiological role of novel N-acyl-ethanolamines in neurons. Period: 2010-2016.
11. Agency: Swiss Contribution, Title: Unraveling the role of novel molecular signaling pathways in the regulation of pain (Co-PI with Hanns Ulrich Zeilhofer, University of Zürich, Switzerland). Period: 2010-2015.
12. Agency: European Research Council, Starting Independent Researcher Grant, Title: Understanding the molecular blueprint and functional complexity of the endocannabinoid metabolome in the brain. Period: 2009-2014.
13. Agency: Hungarian Scientific Research Fund and the Norwegian Contribution Fund, Title: Molecular diversity and plasticity of endocannabinoid signaling at cortical synapses; Period: 2009-2011.
14. Agency: Royal Society International Joint Projects (Co-PI with Andy Irving, University of Dundee, UK), Title: GPR55: a novel cannabinoid receptors expressed in the central nervous

system. Period: 2007-2009.

15. Agency: Hungarian Medical Research Council, Title: Molecular architecture of the endocannabinoid system in brain areas involved in reward signaling, Period: 2006-2009.

16. Agency: Hungarian Scientific Research Fund, Title: Role of novel lipid-sensitive receptors in the regulation of cortical network activity, Period: 2005-2008.

Trainees:

Postdoctoral Research Fellow:

Ana Bernal Chico, supported by Postdoctoral Fellowship Programme of the Hungarian Academy of Sciences (2015-present)

Zsolt Balogi (2015-present)

Stephen Woodhams (2012-2016; continued as senior research fellow at the University of Nottingham, UK)

Marco Ledri (2013-2015; continued as independent group leader at Lund University, Sweden)

Chris Henstridge, supported by Long-Term EMBO Fellowship, (2010-2014; continued as postdoc at University of Edinburgh, UK)

Ashley Dorning (2013-2014, continued as staff scientist at MRC Centre for Reproductive Health, Edinburgh, UK)

Szilárd Szabó (2011-2013; continued as postdoc at University of Freiburg, Germany)

Eszter Horváth (2010-2014; after maternity leave remained as senior research fellow in the Laboratory of Molecular Neurobiology at IEM HAS)

PhD students:

Susanne Prokop (2017-present)

Miklós Zöldi (2016-present)

Benjamin Barti (2015-present)

Vivien Miczán (2015-present)

Zsófia László (2013- in joint supervision with Zsolt Lele).

Gyula Balla (2010-present)

Barna Dudok (2009- defended his thesis in 2017, *summa cum laude*; continued as postdoc at Stanford University, Palo Alto, USA)

Anikó Ludányi (2007- defended her thesis in 2011, *summa cum laude*; continued as postdoc at University College London, UK)

Rita Nyilas (2006- defended her thesis in 2010, *summa cum laude*; continued as postdoc at Columbia University, New York, USA)

Junior Research Fellow:

Susanne Prokop (2016-2017)

Máté Kisfali (2016-present)

Kata Kenesei (2014-present)

László Barna (2010-2014; continued as the Head of the Nikon Center of Excellence for Neuronal Imaging Microscopy Core Facility at IEM HAS, Budapest)

Eszter Szabadits (2011- 2014 left for maternity leave)

Gabriella M. Urbán (2004-2009 left for maternity leave)

Undergraduate:

Judit Glavinics (2015-present)

Fruzsina Mógor (2015-present)

Miklós Zöldi (2015-2016)

Emese Kovács (2013-2015)

Benjámín Barti (2013-2015; Special Award at the National Student Research Conference, 2015)

Norbert Fehér (2013-2014; continued as student at University of Cambridge)

Vivien Miczán (2013-2015; Pro Scientia Gold Medal and First Prize at the National Student Research Conference, 2015)

Emese Baráth (2012-2013)

Eszter Székely (2011-2012)

Zsófia László (2009-2013, Second Prize at the National Student Research Conference, 2013)

Eszter Balázs (2009-2012)

Benjámín Márkus (2008-2009)

Barna Dudok (2004-2009; Second Prize at the National Student Research Conference, 2009)

Anikó Ludányi (2003-2007; Junior Prima Award, 2008; First Prize at the National Student Research Conference, 2007)

Norbert Szabó (2003-2005)

Visiting scientists:

Amy Pohodich (2 months in 2008; University of Texas, Austin, USA)

Chris Henstridge (3 weeks in 2008; University of Dundee, UK)

Michelle Stewart (2 months in 2009; Carnegie Mellon University, Pittsburgh, USA)

Pascal Gratz (1 month in 2010; University of Zürich; Switzerland)

Ashley Dorning (1 year in 2012; University of Dundee, UK)

Ana Bernal Chico (3 months in 2013; University of Bilbao, Spain)

Daniel Ganszky (2 months; University of Dundee, UK)

Carolin von Shoultz (1 month in 2014; University of Zürich; Switzerland)

István Mihály (3 months in 2014; University of Medicine and Pharmacology, Tirgu Mures; Romania)

Vanessa Anna Stempel (1 month in 2015; Charite University, Berlin, Germany)

Esther Baliko (5 months in 2015; Medical University of Vienna, Austria)

Antonio di Fusco (3 months in 2015; Istituto Neurologico Mediterraneo Neuromed, Pozzilli, Italy)

Krisztina Kelemen (2 months in 2015, University of Medicine and Pharmacology, Tirgu Mures; Romania;

Vincent Paget Blanc (2 months in 2016; 1 month in 2017 Istituto Italiano di Tecnologia, Genova, Italy)

Claudia Sagheddu (2 months EMBO fellowship in 2017; University of Cagliari, Italy)

Julia Leschik (2 months in 2017; Institute of Physiological Chemistry, Johannes Gutenberg Universität, Mainz, Germany)

Teaching experience:

1. Regular lecturer at undergraduate and PhD courses in Molecular Neurobiology, János Szentágothai Doctoral School in Neurosciences, Semmelweis Medical University.
2. Lectures in Psychology, Neurobiology of Addiction, Lorand Eotvos University.