



CURRICULUM VITAE
Pertti A.J. Panula

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Current Position

Professor of Biomedical Science, University of Helsinki 2000-
 Research Director, Neuroscience Center, University of Helsinki 2003-
 Vice Rector of the University of Helsinki 2014-2018

Education, Training and Scientific Competence

1977 Licentiate of Medicine (corresponding M.D.) University of Helsinki
 1980 Doctor of Medicine and Surgery (corresponding M.D.,Ph.D.), University of Helsinki
 1984 Docent of Microscopic Anatomy, University of Helsinki
 1987 Declared qualified for the post of Full Professor of Anatomy, University of Helsinki
 1991 Declared qualified for the post of Associate Professor of Physiology, University of Turku
 1991 Declared qualified for the post of Full Professor of Anatomy, University of Oulu
 1992 Declared qualified for the post of Full Professor of Anatomy, University of Kuopio
 1992 Declared qualified for the post of Full Professor of Cell Biology, Abo Akademi Univ
 1998 Placed 2/6 for a post of Full Professor in Pharmacology, University of Helsinki
 2000 Invited to a professorship in Biomedical Sciences, University of Helsinki

Positions Held (1981-)

1981-1983 Visiting Fellow, Laboratory of Preclinical Pharmacology (Chief: Dr. Erminio Costa), NIMH,
 Washington, D.C., USA
 1983-1985 Senior Lecturer, Department of Anatomy, University of Helsinki
 1986 Associate Professor, Department of Anatomy, University of Helsinki
 1986-1992 Senior Scientist of the Academy of Finland
 1992-2003 Professor of Cell Biology, Abo Akademi University (Chairman 1993-2000)

Postgraduate Studies

1988 University of Osaka, Department of Pharmacology, Japan Society for the Advancement of Science

Functions in Scientific Societies

1978-1979 The Society for Histochemistry and Cell Biology of Finland, **Secretary**
 1984 VII International Congress of Histochemistry and Cytochemistry, **Secretary General**
 1985-1987 The Society for Histochemistry and Cell Biology of Finland, **Council Member**
 1987-1988 The Society for Histochemistry and Cell Biology of Finland, **Vice President**
 1994-1997 The Society for Histochemistry and Cell Biology of Finland, **President**
 1983-1987 The International Society for Developmental Neuroscience, **Council Member and Scandinavian Secretary**
 1989-1995, 2001- The Finnish Society for Brain Research, **Council Member**
 1996- 2000 International Federation of Societies for Histochemistry and Cytochemistry, **Member of the Executive Committee, Chairman of the Journals Subcommittee**

- 2000-2008 International Federation of Societies for Histochemistry and Cytochemistry, **Executive Committee, Treasurer**
- 2001 European Histamine Research Society, **President of the XXX Annual Meeting, Turku, Finland**
- 2001 International Narcotics Research Club, **Member of the Local Organizing Committee, Helsinki**

Research, Faculty and University Administration and Honors

- 1993-2000 Chairman of the Department of Biology, Abo Akademi University
- 1993-1996, 1998-2000 Member of the Faculty Council, Faculty for Mathematical and Natural Sciences, Abo Akademi University
- 1993- Member, Scientific Advisory Board, Biocity Turku
- 1995- Board Member, Turku Center for Biotechnology
- 1995 Elected to the Finnish Society of Sciences and Letters
- 1996- Member, Scientific Advisory Committee of the Finnish National PET Center
- 1997- Member, Scientific Advisory Board of the Turku Center for Cognitive Neuroscience
- 1997- Erna and Viktor Hasselblad Foundation grant winner (consortium)
- 1998-2000 Member, Research Council for Environment and Natural Resources, Academy of Finland
- 2000 Vice Chairman, Research Council for Environment and Natural Resources, Academy of Finland
- 2014- Part-time Vice-Rector, University of Helsinki
- 2014 Elected to the Finnish Academy of Sciences and Letters
- 2017- The Hospital District of Helsinki and Uusimaa, Board Member

Memberships in Editorial Boards of Scientific Journals

- 1990- The Journal of Chemical Neuroanatomy, **Member of Editorial Board**
- 1991- European Journal of Histochemistry, **Member of Editorial Board**
- 1999- 2010 The Journal of Neurochemistry, **Member of Editorial Board**
- 2000-2005 Journal of Histochemistry and Cytochemistry, **Member of Editorial Board**
- 2000- Cell and Tissue Research, **Member of Editorial Board**
- 2003- Acta Histochemica, **Member of Editorial Board**
- 2000- Histochemistry and Cell Biology, **Member of Editorial Board**

Supervisor of Doctoral Students

- Leena Kivipelto**, M.D., Ph.D.: Neuropeptide FF in the rat central nervous system, 1991
- Matti Airaksinen**, M.D., Ph.D.: Organization of histaminergic systems in vertebrate brain, 1992
- Markku Nissinen**, M.D., Ph.D.: Histamine and HDC expression in developing tissues, 1995
- Krister Eriksson**, Ph.D.: Neurotransmitters in flatworms, 1995 (deceased 2008)
- Tuula Karhunen**, Ph.D.: Expression of rat catechol-O-methyltransferase with emphasis on the nervous system, 1996
- Antti Aarnisalo**, M.D., Ph.D.: Neuropeptide FF functions in the brain, 1998
- Anu Kinnunen**, M.D., Ph.D.: Development of nerve fiber tracts in the rat brain: Expression and functions of HB-GAM, N-syndecan, histamine and serotonin, 1998
- Oleg Anichtchik**, M.D., Ph.D.: Histaminergic regulation of the nigrostriatal system in Parkinson's disease and a rat model of parkinsonism, 2001
- Minnamaija Lintunen**, Ph.D.: Brain histamine in alcohol-related behaviors and experimental epilepsy, 2001
- Kaj Karlstedt**, Ph.D.: Development of central and peripheral histamine synthesis and receptor expression, 2001
- Tina Sallmen** Ph.D.: Histamine in hibernation, 2002
- Nina Peitsaro** PhD: Molecular and functional characterization of vertebrate brain histamine and histamine receptors 2003

Maija Kalliomäki MD, PhD: Expression and regulation of two RFamide peptide genes in the rat, 2003

Johanna Nystedt PhD: The transcriptional regulation of the neuropeptide FF gene, 2004

Jan Kaslin PhD.: The aminergic and cholinergic neurotransmitter systems in the zebrafish brain, 2004. *Awarded the Novartis prize for the best doctoral thesis in neurosciences in Finland 2004 by the Brain Research Society (now at ARMI, Monash University, Australia)*

Jin Congyu, M.D., Ph.D: Histamine receptors in the thalamocortical system and their alterations in psychiatric disorders and an animal model of epilepsy, 2005

Kimmo Michelsen, PhD: Neuronal histamine storage in the rodent brain, 2005

Adrian Lozada, PhD: Histamine receptors in brain pathophysiology, 2005 (now at UCSD, San Diego)

Minna-Liisa Änkö, PhD: Neuropeptide FF and related RFamide peptides in G protein coupled receptor-mediated signal transduction, 2005 (now at Monash University, Melbourne)

Tiina-Kaisa Kukko-Lukjanov, PhD: The central histaminergic neuronal system *in vitro*, and its neuroprotective role in excitotoxic cell death in the postnatal rat hippocampus, 2008

Ville Sallinen, MD, PhD: Zebrafish as a model of Parkinson's disease, 2009

Maria Sundvik, PhD: The histaminergic neurotransmitter system: Its development and role in neuronal plasticity in zebrafish, *Danio rerio*. *Awarded the Novartis prize for the best doctoral thesis in neurosciences in Finland 2012 by the Brain Research Society*

Madhusmita Priyadarshini, PhD: Neurobiology of Parkinson's disease gene Pink1 in *Danio rerio* (zebrafish), 2013

Jenni Vanhanen, PhD: Neuronal histamine and H3 receptor in alcohol-related behaviors – Focus on the interaction with the dopaminergic system, 2015 (now at Scripps Institute, La Jolla)

Xiang Zhao, PhD: HMBG1 (Amphoterin) and AMIGO1 in brain development, 2016 (shared)

Stanislav Rozov, PhD: Circadian and histaminergic regulation of the sleep-wake cycle, 2016

Henri Puttonen, MD, PhD: Neuropharmacological properties of the histaminergic system in the zebrafish, 2017.

Involvement in Graduate Schools

Supervisor of graduate students: Turku Postgraduate School in Biomedical Sciences (1996-) and Finnish Graduate School in Neurosciences (1997-), Helsinki Biomedical graduate School 2008-
Board member: Brain and Mind Program (2011-)

Other Academic and Professional Merits and Activities

More than 60 seminars and invited lectures abroad
Thesis opponent, 14 times (of which 1 in England, 7 in Sweden, 1 in the Netherlands, 1 in Italy, 1 in France, 1 in Spain)
Examiner of Docent's Competence, 9 times

Selected lectures and seminars etc. 2003- (and EU projects)

European Histamine Research Society, Invited plenary lecture, May 2003
Hypothalamic Control of Feeding, Nobel Forum Meeting, KI, Stockholm, Invited chairman, Sep 2004
The First *Zebrafish Principal Investigator Strategic Meeting, Bar Harbor*, invited speaker, Sep 2005
Neural Control of Behavior, UCLA, USA, Invited Speaker, Feb 2006
G protein-Coupled Receptors, Nobel Forum, KI, Stockholm, invited speaker, August 2006
European Histamine Research Society, Invited plenary lecture, Stockholm, May 2008
Neural basis of zebrafish behavior, FENS, Invited presentation, Geneve, July 2008
Frontiers in histamine H4 receptor research: from gene to new drugs? Invited speaker, Amsterdam, March 20, 2009
Dopaminet meeting, Trieste, Invited speaker, 4-7 October 2009
Emerging Concepts in Brain Histamine and H3 Receptor Antagonists, SFN satellite meeting, Invited speaker, October 16, Chicago, 2009

Physiology and Pharmacology of Brain Histamine, FEPS symposium, Ljubljana, Invited speaker, November 12-14, 2009

University of Iowa, The Neuroscience Graduate Program lecture, November 18, 2011

Yale University, Child Study Center, New Haven: Grand Rounds Speaker Nov 24, 2011

Von Hofstens-Day Lecturer, Uppsala University, 2012

Janelia Farm: Zebrafish Systems Biology Workshop, Invited Speaker 2015

EU COST action BM806 (Histamine H4 receptor) 2009-2013, Management group member

EU COST action BM804 (EuFishBioMed) 2009-2013, Management group member

Referee Assignments

Referee for professor's competence:

Professorship in Pain Research, University of Linköping, 1998

Professorship in Neurobiology, University of Kuopio, 1998

Research Associate Professorship in Pharmacology, Mount Sinai Medical School, New York, 1998

Evaluation of professor's competence of candidates, position in neurosciences, Karolinska Institutet, Stockholm, 2005

Evaluation of professor's competence for a tenured position, Univ. Pittsburgh, 2009

Evaluation of associate professor's competence for a tenured position, Univ. Pittsburgh, 2012

Evaluation of a candidate for tenure at NIH, Bethesda, MD, USA, 2015

Evaluation of a candidate for an Endowed Chair, Univ. Pittsburgh, 2015

Evaluation of a candidate for professorship, Univ Edinburgh, 2016

Grant Reviewer: National Science Foundation, USA, 1998

Academy of Finland, 1992-

French National Research Agency (ANR) 2009, 2011, 2013

Evaluation of Inserm ATIP-Avenir Research Grants, France, 2013

Evaluation of Strategic Research Programs, University of Brussels, 2013

Member of Grant Committee, Finska Läkaresällskapet, 2009-2012

ERC LS5 Neuroscience Panel, 2015-

Grants for Distinguished Professors, Research Council of Sweden, 2017

Patents

Promoter for neuropeptide FF and use thereof for therapy and diagnostics

US Patent 6,320,038 B1

Europe application 00660130.6

Method for regulating autonomic functions and treating pain

SA 2000/3859, European Patent granted

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