

CURRICULUM VITAE

23.8.2017

PERSONAL DATA:

Name: Timo Tapio Myöhänen
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EDUCATION:

Adjunct Professor of Pharmacology (title of docent), University of Helsinki 30.4.2012
Ph.D. (pharm.), University of Kuopio 18.6.2008

- Pharmacology
- Topic "Distribution of prolyl oligopeptidase and its colocalizations with neurotransmitters and substrates in mammalian tissues"

Master of Science (pharm.), University of Kuopio 18.2.2005

- Master thesis accepted with the grade *excellent*

Bachelor of Science (pharm.), University of Kuopio 29.4.2003

POST-DOCTORAL POSITIONS:

Georgetown University Medical Center, Washington DC, USA 1.5.2012 – 2.5.2013

- Visiting researcher in the Department of Neuroscience (Prof. Kathleen Maguire-Zeiss)

University of Antwerp, Belgium 1.1.-30.6.2010

- Post-doctoral researcher in the Laboratory of Medical Biochemistry (Prof. Anne-Marie Lambeir)

Division of Pharmacology and Toxicology, University of Helsinki, Finland

- Post-doctoral researcher in Finnish Graduate School of Pharmaceutical Research, 1.1.2009 – 31.12.2009

OTHER STUDIES:

- University pedagogic studies (teaching in university and planning of teaching) for 10 credits, University of Helsinki, 2015
- Leadership program for academic staff 10 credits, University of Helsinki, 2015
- Competence course for animal experiments (FELASA C category), University of Kuopio, 2004
- Pedagogic studies for 12 credits, University of Kuopio, 1998–1999
- Studies in computer science for 29 credits, University of Kuopio, 1998–1999

CURRENT POSITION

Division of Pharmacology and Pharmacotherapy, University of Helsinki, Finland

- Academy of Finland Research Fellow, 1.9.2013 – 31.8.2018

ACADEMIC WORK EXPERIENCE:

Division of Pharmacology and Pharmacotherapy, University of Helsinki, Finland

- **Academy of Finland Research Fellow, 1.9.2013 –**
- **Principal Investigator, 15.12.2011 –**
- University Researcher (1.7.2011 – 31.8.2013 / Academy of Finland post-doctoral researcher 1.1.2011-30.8.2013),
- Post doctoral researcher, 1.7.2010 – 30.6.2011

Department of Neuroscience, Georgetown University Medical Center, Washington DC, USA

- Visiting researcher, 1.5.2012 – 2.5.2013

Laboratory of Biochemical Medicine, University of Antwerp, Belgium

- Post doctoral researcher, 1.1.2010-30.6.2010

Division of Pharmacology and Toxicology, University of Helsinki, Finland

- Post-doctoral researcher in Finnish Graduate School of Pharmaceutical Research, 1.1.2009 – 31.12.2009

Department of Pharmacology and Toxicology, University of Kuopio, Finland

- Research student in Finnish Graduate School of Pharmaceutical Research, 1.1.2006 – 31.12.2008
- Lecturer, 1.8. – 31.12.2005
- Assistant, 1.2.2005 – 31.7.2005

RESEARCH GRANTS:

Financier	Time	Sum (€)	Role
Jane and Aatos Erkko Foundation	2017-2018	260 000	PI
Academy of Finland Spearhead funding	2016-2018	298 000	PI
Sigrid Juselius Foundation	2016-2018	80 000	PI
University of Helsinki Research Funds	2014-2017	150 000	PI
Sigrid Juselius Foundation	2013-2016	95 500	PI
Jane and Aatos Erkko Foundation	2013-2016	411 600	PI
The Academy of Finland, Academy Research Fellow	2013-2018	755 500	PI
Finnish Parkinson's Disease Foundation	2012	13 000	Personal grant
Orion-Farmos Research Foundation	2012	20 000	PI
Jane and Aatos Erkko Foundation	2011-2013	156 000	PI
The Academy of Finland, post-doctoral project	2011-2013	330 000	PI
Orion-Farmos Research Foundation	2011	18 700	PI
Finnish Cultural Foundation	2010-2011	21 000	Personal grant
Fonds Wetenschappelijk Onderzoek – Vlaanderen (FWO, Belgium), post doctoral grant	2010	7 200	Co-applicant
Research Council of University of Antwerp International Scientific Co-Operation, post doctoral grant	2009	7 200	Co-applicant
Orion-Farmos Research Foundation young investigator's award	2007	3 000	Personal grant

INVENTION DISCLOSURES

- "Novel class of prolyl oligopeptidase inhibitors as inhibitors for protein aggregation and autophagy inducers", Helsinki Innovation Services (University of Helsinki), 2017. Rights transferred to University of Helsinki, under patent clarification.
- "Prolyl oligopeptidase inhibition as an autophagy inducer", University of Helsinki, 2013. Rights to invention returned to investigators.

SCIENTIFIC AWARDS:

- Best thesis award of Finnish Graduate School of Pharmaceutical Sciences (University of Kuopio), 2008

SCIENTIFIC EXPERT POSITIONS:

Opponent in PhD dissertation:

- PhD Anssi Siikanen (University of Eastern Finland, 12/2013)

Peer-reviewing articles in the international scientific journals:

- Brain Research (2009), Journal of Biomedicine and Biotechnology (2009), Regulatory peptides (2010, 2013), CNS & Neurological Disorders – Drug Targets (2010), Journal of Molecular Histology (2011), Neurochemistry International (2011), Neurodegenerative Diseases (2012), International Journal of Molecular Sciences (2013), International Journal of Medical Sciences (2013), Cellular Physiology and Biochemistry (2014), Journal of Neuroscience (2014), Journal of Neuroscience Methods (2015), BMC Neuroscience (2015), British Journal of Pharmacology (2015), European Neuropsychopharmacology (2015), PlosOne (2015, 2016, 2017), Neuropeptides (2015), Neuroscience (2015), Journal of Neurotransmission (2016), European Neuropsychopharmacology (2016), BBA – Proteins and Proteomics (2016), Frontiers – Neuroscience (2016), Cellular and Molecular Life Sciences (2017), Neuropharmacology (2017), Neuroscience Letters (2017), PlosOne (2017), Scientific Reports (2017).

Editorial board positions:

- Section editor in Advances in Biology (Biochemistry), 2013-17

Peer-reviewing grant applications:

- Parkinson's UK (2015 and 2016)
- Latvian Council of Science (2012 and 2013)

Ph.D. student follow-up group member

- Arun Mahato, Institute of Biotechnology, University of Helsinki, 2017-
- Tuuli Karhu, Division of Pharmacology, University of Helsinki, 2016-
- Polina Stepanova, Institute of Biotechnology, University of Helsinki, 2015-

OTHER SCIENTIFIC MERITS:

Invited oral presentations:

- Prolyylioligopeptidaasin (PREP) estäjillä Parkinsonin tautia vastaan?
Suomen Parkinson-liiton "200 vuotta Parkinsonin taudin kuvaamisesta ja Suomi 100 vuotta" juhlasymposium 11.4.2017 (Parkinson's disease 200 years and Finland 100 years – symposium, Finnish Parkinson's foundation)
- Prolyl oligopeptidase inhibitors – novel disease-modifying therapy for Parkinson's disease?
Meilahti Pharmacology seminar series, 15.2.2017, Helsinki, Finland
- Prolyl oligopeptidase inhibitors – novel disease-modifying therapy for Parkinson's disease?
Finnish Pharmacological Society symposium, 12.12.2016, Kuopio, Finland
- PREP and alpha-synuclein interaction role in aggregation and PREP inhibition as possible therapeutic target for PD. *Helsinki Spring Course on Parkinson's disease, 4.-5.5.2015, Helsinki, Finland*
- Distribution of Prolyl Oligopeptidase and its Colocalizations with Neurotransmitters and Substrates in Mammalian Tissues. *FinPharmaNet Annual Meeting, 21.-22.8.2008, Turku, Finland*

Other scientific oral presentations:

- Prolyl oligopeptidase inhibitors – drug therapy for Parkinson's disease?
Viikki Neuroscience Day 2016, 28.10.2016, Helsinki, Finland
- Prolyl oligopeptidase and its inhibition in alpha-synuclein based animal models (**selected from posters**)
PharmaSummit Finland 2016, 25.10.2016, Helsinki, Finland
- Role of PREP on cellular autophagy (**selected from posters**)
5th Nordic Autophagy Network Meeting, 30.8.-2.9.2016, Reykjavik, Iceland
- The inhibition of prolyl oligopeptidase reduces α -synuclein in A30P mutated cells (**selected from posters**)
Proline Specific Cleavage and Oxoprolyl-Formation – Functions and Therapeutic Strategies, 27.-29.5.2010, Halle, Germany
- Spatial association of prolyl oligopeptidase, inositol 1,4,5-triphosphate type 1 receptor, substance P and its NK-1 receptor in the rat brain: An immunohistochemical study (**selected from posters**)
3rd International Congress on DPPIV and Related Proteins, 23.-25.4.2008, Antwerp, Belgium
- Distribution of prolyl oligopeptidase in rat brain (**selected from posters**)
Graduate School Joint Meeting in Pharmaceutical Sciences, 18.-19.8.2005 Helsinki, Finland

Chairperson in session/symposium:

- *Viikki Neuroscience Day 2016, 28.10.2016, Helsinki, Finland* (also member of organizing committee)
- PREP from biochemistry to disease. *New Frontiers on Neurodegeneration and Neuroinflammation, 26.-29.9.2012, Helsinki, Finland*

Scientific positions of trust:

- Movement Disorder section of Finnish Neurological Society, Member of the Board, 2016-
- Viikki Research Groups Organization – Neurobiology, Vice-coordinator, 2015-
- New Frontiers on Neurodegeneration and Neuroinflammation symposium, organizing committee member, 26.-29.9.2012, Helsinki, Finland

Professional memberships:

- Member of Brain Research Society of Finland, 2017-
- Member of Movement Disorder section of Finnish Neurological Society, 2016-
- Member of Society for Neuroscience, 2010-
- Member of Finnish Pharmaceutical Society, 2006-
- Member of Finnish Pharmacological Society, 2005-

Societal impact:

- Interview to Reseptori-journal (customer journal of Oriola-KD) "Edistysaskelia Parkinsonin taudin hoidossa" Reseptori 1/2017
- Interview to Lääkäriportaali "Isoja harppauksia Parkinson-potilaiden hoidossa" 5/2017

SUPERVISING

- Supervising Ph.D. thesis (University of Helsinki):
 - M.Sc. Patrycja Pabis, 2017- (estimated to defend 2020)
 - M.Sc. Tommi Kilpeläinen, 2016- (estimated to defend 2020)

- M.Sc. Ulrika Julku, 2014- (estimated to defend 2017)
- M.Sc. Reinis Svarebals, 2013- (estimated to defend 2018)
- M.Sc. Mirva Hannula, 2011- (estimated to defend 2017)
- **Ph.D. Mari Savolainen, 2011-2015 (now as a post doctoral researcher in Rush University (Prof. Jeffrey Kordower's lab))**
- Supervising international M.Sc. students (University of Helsinki)
 - M.Sc. Sigrid De Lepeleire (University of Antwerp, Belgium), 2016 (5 months Erasmus internship)
 - M.Sc. Patrycja Pabis (Jagellonian University, Krakow, Poland), 2015 (5 months Erasmus internship)
 - M.Sc. Najda Selak (University of Zagreb, Croatia), 2014, (6 months Erasmus internship)
 - M.Sc. Lana Dokleja (University of Zagreb, Croatia), 2011 (6 months Erasmus internship)
- Supervising also includes 8 M.Sc. thesis in Universities of Kuopio and Helsinki

TEACHING EXPERIENCE

- **Lecturing (Faculty of Pharmacy, University of Helsinki):**
 - Systematic pharmacology, 2017
 - o Lectures (2x45 min) on drug therapies for Alzheimer's and Parkinson's disease
 - Neuropharmacology, 2012-2017
 - o Lectures (2x45 min) on novel drug candidates for Parkinson's disease
 - Pharmacotherapy, 2015-2016
 - o Lectures (4x45 min) on self-medication of flu and pain
- **Small group teaching (Universities of Helsinki and Kuopio):**
 - Pharmacotherapy, 2012-2016
 - o Teaching student small groups for customer service situations in pharmacy
 - Methods in pharmacology 2011-2016
 - o Teaching student small groups in practical work of immunohistochemistry and Western blot
 - Drug development process 2014-2016
 - o Tutoring student small groups
 - Pharmacology and toxicology for pharmacy and medical students 2005-2008 (University of Kuopio)
 - Receptor pharmacology 2005
 - o Teaching student small groups
- **Coordinator in course:**
 - Introduction to pharmacy studies 2005-2006 (University of Kuopio)
 - o Introductory course for pharmacy students

LANGUAGE SKILLS

- Finnish: Mother tongue
- English: Excellent writing and speaking
- Swedish: Satisfactory (high school level)