

1. Personal details

Date of CV: March 17, 2023

Honkakoski, Paavo

Year of birth: 1961

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2. Education and degrees completed

Aug 26, 2015. *Docent (adjunct professor) in Biopharmacy*, University of Helsinki, Finland.

Mar 1, 1998. *Docent (adjunct professor) in Biochemical Toxicology*, University of Kuopio, Finland.

Sep 16, 1992. *PhD in Biochemistry*, University of Kuopio, Finland.

3. Current position

Jan 1, 2007 – present. *Professor in Biopharmacy*, School of Pharmacy, University of Eastern Finland (UEF), Finland (formerly named University of Kuopio until 2010).

4. Previous work experience

Aug 1, 2019 – Dec 31, 2020. *Nannerl O. Keohane Distinguished Visiting Professor*, Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, NC, USA.

Aug 1, 2014 – Jun 30, 2015. *Visiting Professor* at Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, NC, USA and *Exchange Scientist* at National Institute of Environmental Health Sciences, Research Triangle Park, NC, USA.

Aug 1, 2005 – Dec 31, 2006. *Acting professor* in Biopharmacy, Dept. Pharmaceutics, University of Kuopio.

Aug 1, 2004 – Jul 31, 2005. *Lecturer in Pharmacogenomics*. Dept. Pharmaceutics, University of Kuopio.

Aug 1, 1999 – Jul 31, 2004. *Academy Fellow*, Academy of Finland at Dept. Pharmaceutics, University of Kuopio.

Jul 1, 1997 – Jul 31, 1999. *Senior scientist/post-doctoral researcher* positions. Dept. Pharmaceutics, University of Kuopio.

Oct 2, 1992 – Jun 30, 1997. *Visiting Fellow*, National Institute of Environmental Health Sciences (NIEHS/NIH), Research Triangle Park, NC, USA.

5. Career breaks Oct 11, 1989 – June 7, 1990. Military service, Kainuu Brigade, Kajaani (8 months)

6. Personal research funding and grants, totaling 3.65 M€

2020 – 2022. Academy of Finland, 250 000 €. Dynamics of bile acid receptors. *PI*. (PI = principal investigator)

2019 – 2024. European Union, H2020-RIA-SC1-2018, total budget 5.98 M€; project share 318 800 €. Metabolic effects of endocrine-disrupting chemicals (EDCMET). *Co-coordinator and Co-PI*. (Coordinator prof. Anna-Liisa Levonen, UEF).

2019 – 2020. University of North Carolina, 240 000 USD. *Nannerl O. Keohane Distinguished Visiting Professor award*. *PI*.

2018 – 2020. European Union, H2020-MSCA-IF-2017, 179 300 €. The role of OSTa/β as a bile acid and drug transporter (OSTrans). *Responsible supervisor* of reintegration grant for Dr. Melina Malinen, UEF.

2017 – 2020. European Union, H2020 MSCA ITN, total budget 3.9 M€; project share 216 600 €. Educational network in ocular drug delivery and therapeutics (OcuTher). *Co-Coordinator, WP leader, Co-PI*. (Coordinator prof. Arto Urtti, UEF).

2012 – 2014. National Agency for Technology and Innovation (formerly TEKES, now Business Finland), 550 000 €.

3D liver cell models. *Consortium leader and PI*.

2011 – 2014. UEF, 80 000 €. UEF-STEM consortium on stem cells. *Co-PI*. (PI prof. Jari Koistinaho, UEF).

2011. Academy of Finland, 210 000 €. Discovering selective ligands of nuclear receptor CAR for study and treatment of diabetes and dyslipidemia. *Supervisor* of post-doctoral grant for Dr. Johanna Jyrkkärinne, UEF.

2009 – 2011. Academy of Finland, 196 000 €. Structural and Functional Analysis of Nuclear Receptor CAR. *Supervisor* of post-doctoral grant for Dr. Ferdinand Molnár, UEF.

2008 – 2011. Academy of Finland, 240 000 €. Consortium on dioxin receptor-interacting proteins. *Consortium Co-leader and Co-PI* with prof. Raimo Pohjanvirta, University of Helsinki.

2007 – 2009. University of Kuopio, 136 000 €. Protein production facility. *PI*.

2006 – 2007. University of Kuopio, 100 000 €. Nuclear receptor consortium grant. *Co-PI* (PI prof. Reino Laatikainen).

2004 – 2006. National Technology Agency TEKES. 529 000 €. Nuclear receptor activation assays. *PI*.

2001 – 2003. Academy of Finland, 216 500 €. Nuclear receptor activation assays. *PI*.

1999 – 2004. Academy of Finland, 206 000 €. Regulated gene promoters in drug therapy. Academy Fellow grant. *PI*.

7. Leadership and supervision experience

Vice Dean, Director and Vice-director positions (see items 8 and 11).

Main supervisor (MS) for seven (7) post-doctoral fellows at UEF (Dr. Prasanthi Medarametla 2023–; Dr. Vijay Saxena 2022–; Dr. Mika Reinisalo 2020–; Dr. Melina Malinen 2018–20; Dr. Ferdinand Molnár 2008–17; Dr. Jenni Küblbeck 2008–17; Dr. Johanna Jyrkkärinne 2010–12) and three (3) visiting fellows (Dr. Vanessa Zancanella, University of Padova, Italy 2011–13; Dr. Ana Cecilia de Oliveira, Fiocruz, Brasil 2009–10; Assoc. Prof. Periklis Pappas, University of Ioannina, Greece 2006–07 and 2017).

Main (MS) or secondary supervisor (SS) for thirteen (14) PhD students at UEF/University of Kuopio unless indicated otherwise:

Katja Stenberg (SS; 2023–); Anam Hammid (MS; 2017–); Chitra Saran, (SS; 2022) at UNC-Chapel Hill; Maria Hytti née Hänler (SS; 2016), Katerina Touloupi (SS; 2015) at University of Ioannina, Greece; Pasi Huuskonen (SS; 2014), Prapapan Pimkaew (SS; 2013) at Mahidol University, Thailand; *Jenni Küblbeck née Vanamo (MS; 2012); Mika Reinisalo ; MS 2012); *Kati-Sisko Vellonen (SS; 2010) at University of Helsinki; *Johanna Jyrkkärinne (MS; 2010); Timo Korjamo (SS; 2008); Ferdinand Molnár (SS; 2006); Päivi Pelkonen (SS; 1995). * prizes for best Ph.D. thesis and/or grade “*approved with distinction*”

From 1989 – present. *Supervisor* of 61 MSc student and 57 BSc student thesis work, 11 Exchange students and 14 trainees.

8. Teaching experience

2007 –. *Director of Biopharmacy curriculum*, School of Pharmacy, UEF.

2015 –. *Course leader*, Grant Writing courses for PhD students and post-doc fellows, Faculty of Health Sciences, UEF.

2004 –. *Course leader for advanced MSc courses* in Pharmacogenomics (3-4 ECTS), Drug Metabolism and Pharmacokinetics (4 ECTS), Practical Research Project (4–11 ECTS), Biopharmaceutics (9–11 ECTS), Cell Culture (2–3 ECTS), Advanced Literature in Biopharmacy (2–8 ECTS), Literature in Biopharmacy for BSc students (1–5 ECTS), Pharmacogenomics

(3 ECTS), Advanced ADME models (4 ECTS). UEF.

2004 –. *Organizer of national and local Graduate School courses* in e.g. cell culture, pharmacogenomics, drug metabolism. UEF.

9. Experience of organising scientific meetings

Jun 9-11, 2017. OcuTher Kick-off meeting, Kuopio. *Co-organizer*. ~50 participants.

Aug 27-30, 2014. 20th GPEN Meeting (GPEN2014), Helsinki. *Co-organizer*. ~150 participants.

10. Patents, inventions, awards and honours

Brouwer KLR, Saran C, Honkakoski P. Method of screening compounds for susceptibility to biliary excretion using differentiated HuH-7 cells. US PTO Application # 63238554.

Nannerl O. Keohane Distinguished Visiting Professor Award. UNC-Chapel Hill, 2019.

Gold medal, 30 years of service to the scientific community. The Federation of Finnish Learned Societies, 2018.

Knight, First Class, of the Order of the White Rose of Finland (SVR R I), 2016

Pulkkinen J, Honkakoski P, Peräkylä M, Berdzi I, Laatikainen R. Novel beta-hydroxyketones and beta-alkoxyketones with estrogenic activity. WO 2009/066008.

Pulkkinen J, Honkakoski P, Peräkylä M, Berdzi I, Laatikainen R. Novel 4,5-dihydroisoxazoles with estrogenic activity. WO 2009/066009.

Award for a Young Scientist, Chemical Society of Eastern Finland, 1989

11. Other key scientific or academic merits

Aug 1, 2012 – Dec 31, 2017. *Vice Dean*, Faculty of Health Sciences, UEF. Main responsibilities: Faculty infrastructure, modernization of lab animal center (~10 M€ budget, completed Jul 7, 2018), post-graduate education.

Jan 1, 2013 – Dec 31, 2017. *Director*, Doctoral Program in Drug Research, UEF.

Jan 1, 2012 – Feb 28, 2014. *Vice-director*, FinPharma Doctoral Program, Pharmacy Section. National consortium.

Jan 1, 2008 – Dec 31, 2011. *Vice-director* (2008-09) and *Director* (2010-11), National Graduate School in Pharmaceutical Research. National consortium.

From 2001 – present. *Review Panel Member*: Current Drug Metabolism; Drug Metabolism Letters; Frontiers in Pharmacology. *Regular reviewer* for other journals: Basic & Clinical Pharmacology & Toxicology; Biochemical Pharmacology; Toxicology; Food and Chemical Toxicology; Toxicology In Vitro. *Ad hoc reviewer*: Biotechniques; Cell Biology and Toxicology; Chemico-Biological Interactions; Drug Metabolism and Disposition; European Journal of Biochemistry; FEBS Letters; Molecular Pharmacology; Pharmacogenomics; PLoS One.

International grant reviewer: EU H2020 IMI2 Call 7: Evaluator and Rapporteur for Topic 1, Apr 2016; National Science Foundation, USA, Mar 2008, Spanish Ministry of Health and Consumer's Affairs, 2006 – 2008; EU Framework Programme 6: Evaluator and Rapporteur for Integrated Projects LSH-2003-1.2.4.3-4 & LSH-2004-2.1.4-2; Association for International Cancer Research (AICR), Jun 2002 & Jun 2004.

Domestic grant reviewer: Åbo Akademi University, Apr 2014; Finnish Cultural Foundation, Jan 2014 & 2022; Chairman and evaluator for Grant Review Board of Kuopio University Foundation, 2013, 2015 – 2018.

Opponent of doctoral dissertations: Mikko Karpale, Department of Pharmacology & Toxicology, University of Oulu, 2021; Padmini Polinati, Research program in Molecular Neurology, University of Helsinki, 2015; Zhigang Kang, Department of Physiology, University of Helsinki, 2005; Merja Korkalainen, Department of Food and Environmental Hygiene, University of Helsinki, 2005; Vahid Bemanian, Department of Molecular Biology, University of Bergen, Norway, 2004.

Pre-examiner of doctoral dissertations: Feng Deng, University of Helsinki, 2018; Hao Hu, ENTOX & University of Queensland, Australia, 2016; Sami Purmonen, Department of Cell Biology, University of Tampere, 2015; Juha Vahokoski, Department of Biosciences, Åbo Akademi University, 2014; Johanna Huppunen, Department of Physiology, University of Helsinki, 2008; Annika Kalliokoski, Department of Clinical Pharmacology, University of Helsinki, 2008; Nanna Sarvilinna, Department of Medical Sciences, University of Tampere, 2005; Yan Li, Department of Clinical Chemistry, University of Oulu, 2004; Vahid Bemanian, Department of Molecular Biology, University of Bergen, Norway, 2004.

Evaluator for professor and other positions: Associate professor in animal physiology 2018, UEF; Professor in health sciences, University of Tampere, 2013; Tenure track associate professors (2) in pharmacy, UEF, 2012; Professor in molecular biosciences, University of Kuopio, 2009; University researcher positions (>10) UEF, 2010 – present; Adjunct professor (docent), University of Helsinki, 2016; Tenure track positions (2), Faculty of Health Sciences, UEF, 2016.

Member, PhD supervision and/or evaluation committees (> 20) at the Universities of Kuopio, Helsinki and UEF; Doctoral Program in Drug Research, UEF 2018 – present.

12. Memberships and positions of trust in scientific societies

From 2011 – present. *Editorial Board Member*, European Journal of Pharmaceutical Sciences (2011–); Xenobiotica (2015–); Physiological Genomics (2015–2018); Nuclear Receptor Research (2015–2018).

From 1988 – present. *Member*, Finnish Society of Toxicology (1988–); American Society of Biochemistry and Molecular Biology (2004–); Controlled Release Society, Nordic Chapter (2008–); Globalization of Pharmaceutical Education Network (GPEN) (UEF liaison; 2010–).

13. Link to publications: <https://www.ncbi.nlm.nih.gov/myncbi/1hMIF7MO-1xkh/bibliography/public/>