

Brief Curriculum Vitae DAN LARHAMMAR - Aug. 8, 2023

Basic degree: 1980, master of pharmacy.

PhD: 1984, medical science.

Thesis: Class II transplantation antigens: Molecular Genetic Studies.

Postdoc and research associate at Uppsala University 1984-87.

Parental leave: 3 months 1985.

Docent 1987.

Postdoctoral EMBO fellowship 1987-88: Research Institute of Scripps Clinic, La Jolla, CA, USA.

1988-94 Researcher position at Uppsala University funded by the Swedish Natural Science Research Council (NFR).

Professor of molecular cell biology, Uppsala University 1994.

Supervision:

22 PhD students, 1 licentiate student (+ 3 PhD students as co-publishing co-supervisor)

15 postdoctoral fellows/visiting scientists.

Research group

1 research engineer, 1 researcher, 2 postdoctoral fellows, 2 PhD students.

Honours and awards

Appointed fellow of the International Science Council (ISC) 2022.

Elected member of Academia Europaea 2022.

Awarded the Order of the Rising Sun, Gold and Silver Star, by the Government of Japan 2022 for "Contribution to the promotion of academic exchanges and mutual understanding between Japan and Sweden".

2022 His Majesty the King's 12th size gold medal "for meritorious contributions within the Swedish academic system" Elected member in 2007 of the Royal Swedish Academy of Sciences.

President of the Royal Swedish Academy of Sciences 2018-2021.

3rd vice president of the Royal Swedish Academy of Sciences 2015-2018.

Appointed 'Pharmacist of the Year' 2016 by the Swedish Pharmacists, the pharmacists' union, for 'being a strong advocate of evidence-based medicine and the pharmaceutical profession', and for criticizing pseudoscientific alternative medicine.

Selected to give the prestigious Bargmann-Scharrer lecture at the International Conference of Comparative Endocrinology in Hong Kong, 2009. This was the eighth lecture since its inauguration in 1981.

Awarded the Rosén Linnaeus Prize in Zoology 2004 by the Physiographic Society in Lund, Sweden.

Awarded the "Pedagogical Rose" teaching award in May 2013 by the Medical Student Association.

Awarded the "Limbic Prize" (teaching award) 2003 by the Biomedical Student Association at Uppsala University.

Nominated for teaching award on additional 7 occasions.

Elected member in 2000 of the Royal Society of Sciences in Uppsala (founded 1710).

Awarded the Ingemar Hedenius prize 2000 by the Swedish Humanist Organization "Humanisterna".

Research programme was awarded the grade "excellent" (highest grade) in NFR:s international evaluation of neurobiology projects supported by the NFR (July 1999).

EMBO long-term postdoctoral fellowship 1987-88.

Commissions

Trustee of the Nobel Foundation 2018-2023.

President of the European Society for Comparative Endocrinology (ESCE, <http://www.escendo.info/>) 2010-2014. Vice-President 2006-2010. Councillor 1994-98 and 2002-06. Appointed honorary president in 2016.

Councillor of the International Federation of Comparative Endocrine Societies (IFCES) 2005-09.



Within the Royal Swedish Academy of Sciences (RSAS), I will be the chairperson for the International Committee 2018-2021. Chairperson for the Education Committee 2015-2018, member of the committee 2008-2014. I was chairperson for the task group School of the Future 2011-2105. Within the Royal Swedish Academy of Sciences I am the chair of a working group to suggest Swedish guidelines for handling of suspected research misconduct. Member of the Swedish National Committee for Biology of the Royal Swedish Academy of Sciences 2002-11. Chairperson 2005-08.

Member of the Expert Group on Research Misconduct ("expertgrupp för frågor om oredlighet i forskningen") at the Swedish Research Council (Vetenskapsrådet) 2002-2010.

Member of the Scientific Committee of The Swedish Brain Foundation (Hjärnfonden vetenskapliga nämnd) 2006-2010.

Faculty Opponent (External thesis examiner) at 14 dissertations in four countries.

Faculty board and faculty committees: several assignments.

Member of editorial board of General and Comparative Endocrinology since 2001.

Associate editor for Frontiers in Neuroendocrine Science since 2010.

Member of the international editorial board of FACT, Focus on Alternative and Complementary Therapies, an official journal of the Royal Pharmaceutical Society (U.K.) 2011-2016.

Journal assignments as editor or reviewer

- Reviewing editor for eLife since 2019.
- Member of the editorial board of General and Comparative Endocrinology since 2001.
- Guest editor for Frontiers in Endocrinology special issue (Research Topic) on Genomic and Transcriptomic Insights into Neuroendocrine Evolution and Function 2022-23.
- Guest editor for Frontiers in Endocrinology special issue (Research Topic) on Endocrine and Neuroendocrine Systems of Invertebrate Deuterostomes 2017-18.
- Guest editor for General and Comparative Endocrinology special issue on the evolution of G protein-coupled receptors for peptide hormones 2014.
- Associate editor for Frontiers in Neuroendocrine Science since 2010 and Frontiers in Experimental Endocrinology 2010-2014.
- Member of the international editorial board of FACT, Focus on Alternative and Complementary Therapies, an official journal of the Royal Pharmaceutical Society (U.K.) 2011-2016.

Ad hoc manuscript reviewer on more than 250 occasions for more than 70 journals including Nature, Nature Genetics, eLife, PNAS, J. Neuroscience, Endocrinology, Scientific Reports (Nature), BMC Biology, etc.

Scientific publications

199 original articles published in journals with peer review.

54 review articles and book chapters, 6 commentaries

h-index according to Google Scholar: 73 (by Aug. 6, 2023)

Citations according to Google Scholar: 17,842 (by Aug. 6, 2023)

I have organized or co-organized 18 symposia (examples):

8. 22nd CECE (Conference of Eur. Comparative Endocrinologists), Uppsala, 2004. 230 participants.
- Naturläkemedel efter Linné (Natural [herbal] products after Linnaeus), Royal Swedish Academy of Sciences, Stockholm, 28 Oct 2008. (Together with Bertil Fredholm)
9. 11. Darwin Symposium Uppsala 25-27 Oct 2009 (Together with Ulf Petterson) 300 participants.
12. Darwin Symposium, KVA, Stockholm 28 Oct 2009, 120 registered participants.
15. Co-evolution of receptors and ligands. Wenner-Gren Center, Stockholm, 9-12 Sept. 2015. 80 participants.
17. Knowledge resistance and how to cure it. Wenner-Gren Center, Stockholm, 6-9 Sept. 2017. 80 participants.

Invited speaker at more than 65 conferences and symposia (examples):

- 16th International Congress of Comparative Endocrinology (Plenary lecture: the Bargmann-Scharrer lecture). Hong Kong, 2009.
- Meeting of the Society for Integrative and Comparative Biology (SICB). Seattle, 2010.
- 7th International Conference of Neuroendocrinology. State-of-the-art lecture: Chromosome duplications in vertebrate neuropeptide evolution. Rouen, 2010.
- 65th Annual Meeting of the Korean Association of Biological Sciences. Plenary lecture: The impact of genome duplications on functional diversity. Seoul, Korea, 2010.
- Inaugural meeting of NASCE, the North American Society for Comparative Endocrinology. State-of-the-art lecture: Complex evolution of somatostatin and urotensin II receptors. Ann Arbor, Michigan, 2011.
- 15th European Congress of Endocrinology (Symposium lecture). Copenhagen, 2013.

- 27th Conference of Eur Comparative Endocrinologists (State-of-the-art lecture). Rennes, France. 2014.
- Regulatory Peptides Meeting, Rouen, France, 2016.
- 28th Conference of European Comparative Endocrinologists. Leuven, Belgium, 2016.
- Evolution and functional biology of neuropeptide signalling. The Royal Society, 13-14 March 2017.
- Plenary speaker at 2019 International Conference on Biomaterials, Biomedicine and Interdisciplinary Sciences. Cixi, China, 24-26 May, 2019.
- Plenary speaker at 2019 Summit on Chemistry and Biomedicine. Changsha, China, 26-28 May 2019.

Major areas of research

- Studies of brain neuropeptide NPY and its receptors that regulate appetite and food intake.
- Studies of the evolution of proteins for vision, especially the distinction between rods (dim-light vision) and cones (colour vision).
- Evolutionary studies of numerous important gene families including growth hormone, oxytocin, opioid peptides (endorphins) and their receptors.
- Studies of genes involved in learning and long-term memory, especially receptors for glutamate, GABA and acetylcholine as well as the enzyme PKM ζ that consolidates memories.
- Studies of long-term memory in zebrafish.
- Studies of dopamine receptors involved in Parkinson's disease.
- Studies of temperature receptors: the TRP superfamily.

Teaching

I have had extensive teaching in the programmes for medicine, biomedicine and biology as course organizer on over 50 occasions and frequent lecturer. I established a course in neurobiology for biology students in 1996 (15 credits) and gave it 18 times until 2012. I initiated and established a course in sex and gender, with a basis in neuroendocrinology, in the medical programme and have given it 17 times. I have served as director of studies in my department. In 2016 I initiated a course called "Good and bad science" at advanced level, given once per year, and on each occasion I have given three lectures. I have given numerous lectures about researcher misconduct and how to stifle this.

Outreach: Public information about science and medicine

I have worked actively to spread information about scientific discoveries and the scientific approach to lay audiences (radio, TV, newspapers and magazines) and to present the scientific evidence that contradicts pseudoscientific claims such as creationism, parapsychology and homeopathy and other types of alternative medicine, all of which are widely spread misconceptions in our society.

Popular science lectures and panel debates: >186

Radio and TV programmes and interviews: 80

Newspaper/journal interviews: approximately 57

Pod interviews: 9

Letters to editors (Swedish: insändare): 59

Popular science articles and book reviews: 59

EASAC (European Academies' Science Advisory Council) and FEAM (Federation of European Academies of Medicine)

I served in a working group under EASAC's bioscience programme that produced a statement on homeopathy in 2017 and a statement together with FEAM in 2019 on WHO's ICD-11 document's inclusion of traditional Chinese methods for diagnosis of diseases.

ALLEA (All European Academies)

I chaired a working group in ALLEA that wrote a discussion paper called "Fact or Fake" about the challenges with disinformation in our societies on matters such as climate change, vaccines and the covid-19 pandemic. The report discussed how the scientific community can respond to such disinformation and how communicators and decision makers can be made aware of disinformation campaigns.