

Curriculum Vitae

Mikko Juhani Nikinmaa, born 1954

Degrees

M.Sc.1979, University of Helsinki, major subject Zoology

Ph.D. 1982, University of Helsinki, major subject Zoophysiology, thesis title *Respiratory adjustments of rainbow trout (Salmo gairdneri Richardson) to changes in environmental temperature and oxygen availability.*

Adjunct professorships (Docentships)

Animal Physiology, University of Helsinki, 1983

Comparative Physiology, University of Jyväskylä, 1994

Present position

Professor of Zoology (Eläintieteen professori), University of Turku, from 1.1.1995

Previous positions

Research and teaching assistant, University of Helsinki (tuntiopettaja; tutkimusavustaja) 1979-1981

Researcher, University of Helsinki (University of Helsinki Scholarship for Talented Young Scientists, apurahatutkija), 1981-1984

Assistant teacher, Department of Zoology, University of Helsinki (assistentti), 1984-1985

Junior Fellow, Academy of Finland (nuorempi tutkija), 1986-1990

Senior Fellow, Academy of Finland (vanhempi tutkija), 1990-1994

Ph.D. theses supervised

Annika Salama, University of Helsinki,

Kirsti Tiihonen, University of Helsinki,

Leila Virkki, University of Helsinki

Seppo Peuranen, University of Helsinki

Pekka Vuorinen, University of Helsinki

Susanna Airaksinen, University of Turku

Tiina Lecklin, University of Turku

Dalene van Heerden (Vosloo), North-Western University, South Africa (cosupervised)

Eeva Rissanen, University of Turku

Kristiina Vuori, University of Turku

Heli Routti, University of Turku (cosupervised)

Kalle Rytönen, University of Turku (cosupervised)

Lotta Leveelahti, University of Turku

Mirella Kanerva, University of Turku (cosupervised)

Jenni Prokkola, University of Turku (cosupervised)

Scientific expert tasks

Pre-examiner or examiner to 30 Ph. D. theses (five of these foreign, Austria, India, Pakistan, 2 x South Africa); Examiner to 3 licenciate theses

Faculty opponent, 7 Ph.D. theses (3 of these foreign Ph.Ds, Denmark)

Reviewer of 7 applications for docentship

Reviewer of 6 sets of professorship applications (Game and Fisheries Research Institute, Århus University, University of Gothenburg, Ecole Pratique des Hautes Etudes, Paris, 2 for University of Helsinki),
Reviewer of 1 set of assistant professorship applications (University of Gothenburg)
Reviewer of 9 promotions of professors (University of British Columbia, Queens University, Canada, Louisiana State University, University of New Orleans, RSMAS, University of Florida, University of North Carolina, Aarhus University, Denmark and University of Joensuu)
Reviewer of 3 Canada Research Chair applications
Reviewer of three applications for lecturership (University of Liverpool, University of KwaZulu Natal, South Africa)

Chief editor, *Aquatic Toxicology* 2004-
Associate editor, *Acta Physiologica* 2007-
Associate editor, *Comparative Physiology and Biochemistry* 1994-2001
Associate Editor *Acta Physiologica Scandinavica* 1993-2006
Member of editorial board, *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology* 2004-
Member of editorial board, *Journal of Experimental Biology* 1993-1998
Member of editorial board, *Dictionary of Global Environmental Pollution* 2006-
Member of editorial board, *World Journal of Biological Chemistry* 2010-
Member of editorial board, *Frontiers in Aquatic Physiology* 2010-
Evaluator of Estonian Zoological Research, 2000
Evaluator of Department of Biology, University of Joensuu, 2001
Evaluator of Estonian Centre of Excellence applications, 2001
Member of the evaluation panel for Swedish Research Council Biological Diversity applications 2002
University of Turku Foundation, member of the evaluation panel, 2002-2009
Evaluation of two research programs for University of Gothenburg 2005, one research program 2008 and two research programs 2009
Evaluator of postdoctoral fellow and university researcher positions, University of Oulu, 2007

Reviewed grant proposals for Natural Environment Research Council, U. K.; Natural Sciences and Engineering Research Council, Canada; Nato Collaborative Research Grants; International Science Foundation; Wellcome Trust, U.K.; FNF, Austria; University of Cambridge; National Science Foundation, USA; Marsden foundation, New Zealand; Swedish National Research Council; US-Israeli Bilateral Research Program; Georgian National Research Council; NRF, South Africa; Icelandic Research Fund; General Research Fund (GRF), Hong Kong; Swiss National Research Council; ANR, France; Singapore National Research Foundation, Estonian Research Council.

Reviewed manuscripts for *Acta Histochemica*, *Acta Physiologica Scandinavica*, *American Journal of Physiology*, *Annales Zoologici Fennici*, *Aquaculture*, *Aquatic Toxicology*, *Biochimica Biophysica Acta*, *Biological Bulletin*, *Biology of the Cell*, *Biology Open*, *Biophysical Journal*, *BMC-Evolutionary Biology*, *BMC-Molecular Biology*, *BMC-Genomics*, *BMC-Pharmacology*, *BMC-Physiology*, *Boreal Environmental Research*, *Brain Research Bulletin*, *Bulletin of European Society of Fish Pathology*, *Canadian Journal of Zoology*, *Canadian Journal of Fisheries and Aquatic Sciences*, *Chemico-Biological Interactions*, *Chemosphere*, *Chest*, *Comparative Biochemistry and Physiology*, *Ecologia Australis*,

Ecotoxicology and Environmental Safety, Environmental Biology of Fishes, Environmental Pollution, Environmental Science & Technology, Environmental Toxicology and Chemistry, Experimental Cell Research, FEBS Journal, Finnish Fisheries Research, Fish Physiology and Biochemistry, Frontiers in Aquatic Physiology, Genetica, Heliyon, Journal of Anatomy, Journal of Comparative Physiology B, Journal of Experimental Biology, Journal of Experimental Zoology, Journal of Fish Biology, Journal of Molecular Evolution, Journal of Physiology, Journal of Thermal Biology, Journal of Zhejiang University-Science B, Marine Genomics, Marine Pollution Bulletin, Molecular Biology and Evolution, Molecular and Cellular Endocrinology, Molecular Ecology, Naturwissenschaften, Pflugers Archiv, Physiological Zoology, Physiological and Biochemical Zoology, Proceedings of the National Academy of Sciences U.S.A., Polish Journal of Environmental Studies, Respiration Physiology, Sarsia, Science, Science of the Total Environment, Scientific Reports, Springer Plus, Toxicology In Vitro.

Organizer, 6th International Symposium on Fish Physiology, Kirkkonummi, Finland (Sept. 1-5, 1993)

Organizer, Scandinavian Physiological Society Fall Meeting, Helsinki, Finland (October 25-27, 1996)

Organizer, XIX European Society for Comparative Physiology and Biochemistry Congress, Turku, Finland (1998)

Organizer, XI BioCity symposium Redox Regulation of Cellular Functions, Turku, Finland (2001)

Member of the Scientific Advisory Board of ESCPB Congress in Ravenna, Italy (2008)

Symposium organizer, Scandinavian Physiological Society, Oulu Congress (2008)

Positions of trust

Chairman, Biology Department, University of Turku 1998-1999

Vice Dean, Faculty of Mathematics and Natural Sciences, University of Turku, 1998-1999

Dean, Faculty of Mathematics and Natural Sciences, University of Turku, 1999-2004

Secretary of the Biology section of Finnish Academy of Science, 2001-2014

Vice Chairman, Biology Department, University of Turku, 2004-2006

Scientific secretary of evaluation of hydrobiological research in Finland (Academy of Finland), 1985-1986

Member, Working Group on Toxicity Testing (Finnish National Board of Waters and the Environment); (From 1994 the name changed to Working group on Biotesting) 1990-1997

Societas Biochemica Biophysica et Microbiologica Fenniae, board member 1993-1995, Vice Chairman 1994-1995

Director, National Graduate Program on Fish Biology and Fisheries (from 1999 Biological Interactions graduate school), 1994-2009

Vicedirector, Biological Interactions graduate school, 2010-2014

Board member, European Society for Comparative Physiology and Biochemistry, 1994-2014

Board member, Scandinavian Physiological Society, 1991-1993

President of Scandinavian Physiological Society, 1994-1996

Member of the research council for environment and natural resources, Academy of Finland, 1995-1997

Finnish delegate for Nordisk publiceringsnämnden för naturvetenskaper (Scandinavian Publishing Council for Natural Sciences), 1995-1997

Member of the planning and steering groups for the development of “Health Biosciences” degree in University of Turku, 1997-2010

Member of Board of Governors, University of Turku, 1999-2004

Member of Departmental Council, Department of Biology, University of Turku, 2004-2006

Research Visits

Department of Biology, Odense University, Denmark, 1981 (3 months)

Department of Chemistry, Stanford University, California, 1982-1983 (1 year)

Department of Zoology, University of British Columbia, Vancouver, Canada, 1985 (2 months)

Department of Biology, Dalhousie University, Halifax, Nova Scotia, Canada, 1989 (2 months)

Scientific Awards and Acknowledgements

University of Helsinki scholarship for talented young scientists, 1981

Member of Finnish Academy for Science, 1998

The Centre of Excellence in Evolutionary Genetics and Physiology (formed together with Juha Merilä and Craig Primmer) chosen by the Academy of Finland as a centre of excellence in research for 2006-2011

The most important grant support in 2000's

Temperature, eutrophication and contamination-dependent effects, their rhythmicity and interactions in Baltic Sea fish 2012-2016 (Academy of Finland) 699942€

Centre of Excellence grant from the Academy of Finland: Centre of Excellence in Evolutionary Genetics and Physiology 2006-2011 (together with Juha Merilä and Craig Primmer (from the Academy of Finland 968000 € 2006-2008, 1210000 € 2009-2011; from the University of Turku 75000 € yearly 2006-2008, 110000 € yearly 2009-2011)

Molecular mechanisms of early mortality syndrome (M74) in Baltic salmon (*Salmo salar*) 2003-2006 (Academy of Finland) 285980€

Environmental regulation of cellular functions in fishes 2001-2003 (Academy of Finland) 1643000 FIM

The importance of oxygen and redox-state in the regulation of cellular functions in fish 1998-2000 (Academy of Finland) ca. 1300000 FIM