

Curriculum Vitae

October 12, 2017

Helena Sylvia Korpelainen, born 1958

Details of publications and other activities available in the TUHAT database of the University of Helsinki:
[https://tuhat.halvi.helsinki.fi/portal/en/persons/helena-korpelainen\(902a4a71-0241-430c-af2a-54968d29b0c7\).html](https://tuhat.halvi.helsinki.fi/portal/en/persons/helena-korpelainen(902a4a71-0241-430c-af2a-54968d29b0c7).html)

Education and training

- Bachelor of Science 1979, University of Helsinki, major: genetics
- Master of Science 1980, University of Helsinki, major: genetics
- 2nd Master's Thesis 1981, University of Helsinki, zoology
- Licentiate in Philosophy 1983, University of Helsinki, genetics
- Doctor of Philosophy 1985, University of Helsinki

- Fulbright grant studies: Univ. Georgia, USA, 1981-1982, genetics and computer science
- University of Helsinki, 1994-2004, IT courses, business and management training, language courses, studies in university pedagogy
- Advanced program in professional leadership (e.g., strategic training, interaction skills, finances and legal issues, and a development project), Helsinki Business College, 2008-2010

Present employment

Head of Department, Professor 2014-2017, Department of Agricultural Sciences, University of Helsinki
Head of Department, Professor 2014-17, Dept. Agricultural Sciences, Univ. Helsinki;
Title of Docent 12/90- (field: ecological genetics), Dept. Biosciences, Univ. Helsinki

Most important previous employment relationships

2002-13 Associate Professor [*yliopistonlehtori*] (field: applied genetics) and 2011-13 Chair of the major committee, Dept. Agricultural Sciences, Univ. Helsinki; 2006 Deputy, Dept. Applied Biology, Univ. Helsinki; 1996-97, 2001-02 Advanced Research Fellowship, Academy of Finland; 1993, 1998, 2000 Research Fellowship, Univ. Helsinki; 1982-86, 1988-92 Lecturer, Univ. Helsinki; 1988-89 Research Fellowship, Academy of Finland; 1987-88 Postdoctoral Researcher, University of Georgia, USA; 1987 Visiting Scientist, Banaras Hindu University, India; 1981-82 Fulbright Scholar, University of Georgia, USA; 1981 Researcher, Agricultural Research Centre, Finland; career breaks: 1989, 1991 and 1996 maternity leaves

Other: 1981–present: teacher at several universities and other institutes in Finland, USA and China; consultant in biostatistics, bioinformatics and genetic analyses; international research specialist and evaluation work; a coach for the successful Finnish team in the Olympic Games in Biology (1998-2001)

Most important visits abroad

- University of Georgia, USA, 1981-82: Molecular evolution of fruit flies
- Banaras Hindu University, India, 1987: Sex determination and life histories of water fleas
- University of Georgia, USA, 1987-88: Labile sex determination

- Herbarium Bogoriense, Indonesia, 1991: Population biology of ferns
- Smithsonian Tropical Research Institute, Panama, 1995 & 1997: Bryophyte population genetics
- Chengdu Institute of Biology, Chinese Academy of Sciences, 2006, 2015: Forest tree genetics
- Zhejiang A & F University, China 2015: DNA metabarcoding, forest tree genetics

Most important scientific and academic administrative positions

- Head of Department 2014-2017, Department of Agricultural Sciences, University of Helsinki
- Chair of the major committee of Plant Production Science (2011-2013) and chair of the steering committee of the international Master's degree program in Plant Production Science, University of Helsinki (2013-2017)

Scientific awards and funding

- Fulbright grant, USA, 1981
- Academy of Finland, research funding 2001-2004, 2007-2010
- Finnish Funding Agency for Innovation (Tekes), 2003-2005
- Over 80 other grants from different foundations, Academy of Finland, Smithsonian Tropical Research Institute and from the University of Helsinki 1980-

Research leadership and student supervision

- Responsible supervisor for numerous Doctoral and Master's theses, referee or opponent for 24 doctoral dissertations (8 Finnish, 16 international)
- International Ph.D. students, postdocs and other researchers frequently (several each year) visit the group and conduct collaborative research or receive training. During recent years, the visitors have come from China, Singapore, Australia, India, Norway, Hungary, Lithuania, Romania, Germany and the Netherlands.
- Group belongs to the Viikki Plant Science Centre, University of Helsinki; supervision in three doctoral programs of University of Helsinki (Plant Sciences, Sustainable Use of Renewable Natural Resources, Wildlife Biology Research).

Scientific impact of research

- International refereed publications: 195
h-index 29 (Web of Knowledge) or 39 (Google Scholar)
- Numerous non-refereed scientific and popular science publications, and teaching materials
- Participations in scientific congresses: 106 presentations (99 international)
- Seminar presentations and other invited lectures: 61 presentations (10 international)
- *Co-authored publications with dozens of scientists of more than twenty nationalities* (Europe, Asia, Africa, Americas)

Other scientific expert positions and scientific achievements

Evaluation expert and referee tasks

Extensive evaluation expert and referee work, including the European Commission, several funding organizations, also reviewing research papers and candidates for university positions.

- *Referee for funding*, e.g., European Commission (regular contributions, the 5th-7th Framework and H2020 Programs, many instruments, multiple tasks as a *presiding officer of panels*), National Science Foundation, USA, NATO International Scientific Exchange Programs, Agence Nationale de la Recherche France, Fonds de la Recherche Scientifique Belgium, Israel Science Foundation, Research Council of Norway, Austrian Science Fund, Fonds Nationale de la Recherche Luxembourg, Latvian Science Council, Netherlands Organization for Scientific Research, Czech Science Foundation, South Moravian Programs for Distinguished Researchers, Portuguese Foundation for Science and Technology, Swiss National Science Foundation, National Science Centre Poland, Slovenian Research Agency
- *Panel member: research evaluation for development*, Univ. Gothenburg, Sweden (2010), the Spanish State Research Agency (2017), the Lithuanian Centre of Quality Assessment in Higher Education (2017)
- *Panel member: evaluation of candidates for faculty positions* (Finland and Sweden)
- *Referee for 85 international scientific journals*, e.g., Evolution, Trends in Plant Science, Oikos, Oecologia, Biotechniques, Theoretical and Applied Genetics, Evolutionary Ecology, Molecular Ecology, BMC Plant Biology, BMC Evolutionary Biology, BMC Genomics, New Phytologist, Annals of Botany, American Journal of Botany, Heredity, PLoS ONE, Molecular Phylogenetics and Evolution, Journal of Evolutionary Biology, Biological Reviews, Proceedings of the Royal Society, Molecular Plant Pathology, Environmental and Experimental Botany, Biodiversity and Conservation, Conservation Genetics, Euphytica, Tree Physiology, Gene, Evolution and Human Behavior, Annals of Human Biology, Forensic Science International, Plant Science, AoB Plants

Other selected tasks

- Chair and organizer of a session, The Science Forum 2017, Helsinki
- Delegation member, Sarka – the Finnish Museum of Agriculture (2017-)
- Executive board member of the LUOVA Doctoral Programme (2015-)
- Member in the steering committee of the Finnish Barcode of Life (FinBOL) consortium (a national node of the international iBOL consortium), and leader of plant barcoding (2011-)
- Executive board member of the Finnish Museum of Natural History (2010-), vice chair (2014-)
- Chair of the steering committee of the international Master's degree program in Plant Production Science, Univ. Helsinki (2011-2017)
- Member in the IUCN specialist group for crop wild relatives (2006-); data contribution and analysis, European Red List of Vascular Plants (IUCN) (2011)
- Member in the Finnish National Advisory Board for Genetic Resources (2007-2011, 2017-)
- Member in the In Situ Conservation Task Force (European Cooperative Programme for Plant Genetic Resources, ECPGR) (2008-)
- Member in the steering committee in the Nicaragua-Finland Agrobiotechnology Programme (a development co-operation project funded by the Government of Finland, 2007-12)
- Executive committee member in Finnish Society of Biology 'Vanamo' (1991-2002), editorial board member in the journal 'Luonnon Tutkija' (2007-) and in Annales Botanici Fennici (2012-).
- Plant DNA fingerprinting analyses for criminal investigations in cooperation with the National Bureau of Investigation of Finland, and collaboration in developing DNA methodology for forensics (2001-)

- Contributor/partner/subcontractor in, e.g., a network constructing population parameters for bryophytes in NW Europe (NorFA project) (2002-05), in the European Crop Wild Relative Diversity Assessment and Conservation Forum (2003-05), and in PGR Secure: Novel Characterization of Crop Wild relative and Landrace Resources (2011-14); reviewer of the UNEP EEAP 2014 Report on “Environmental Effects of Ozone Depletion and Interactions with Climate Change”
- Several interviews and story collaborations for newspapers, magazines, radio and TV on scientific subjects