CURRICULUM VITAE

Dr. Kristina Lindström

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http://tuhat.halvi.helsinki.fi/portal/en/person/lindstro

1. Personal details

- Lindström (nee Lindqvist), Anna Kristina
- female

2. Date and place of birth, nationality, current residence

- 20.01.1954, Helsinki
- Finnish citizen
- Residence: Helsinki

3. Education and degrees awarded

- PhD (Doctor of Agriculture and Forestry), microbiology, University of Helsinki, 31.5.1985
- title of docent: microbiology, 1986

4. Other education and training, qualifications and skills

• broad competence in microbiology, molecular ecology, microbial ecology, microbial genomics, systematics and taxonomy, sustainable agriculture

5. Linguistic skills

- Swedish, mother tongue
- Finnish, excellent
- English excellent
- German, good

6. Current position

 Professor of Sustainable Development, University of Helsinki, Department of Environmental Sciences 1.5.2013-

7. Previous work experience

- University lecturer in microbiology 1.8. 2001-30.4.2013
- Academy senior research fellow (varttunut tutkija) 1.8.2001-31.7.2002
- Professor in Applied Microbiology 15.8. 1998-31.7. 2000
- Associate professor in Microbiology 1.9.1995-31.7.1998
- Research stipend of the University of Helsinki 1995
- Research stipend of the Academy of Finland 1994-95
- Senior research fellow at the Academy of Finland 1993
- Acting associate professor in microbiology, University of Helsinki 1991-92 (11 months)
- Junior research fellow at the Academy of Finland 1985-93

- Research assistant at the Academy of Finland 1979-85
- Visiting scientist, Department of Molecular Biology, Massachusetts General Hospital and Harvard Medical School 1983-84 (7 months)
- OECD research fellow, Massey University, New Zealand 1981-82 (9 months)
- Maternity leaves 15.3.1986-15.2.1987 and 1.3.1989-1.2.1990

8. Research funding as well as leadership and supervision

- Obtained research funding since 1984
- coordinator of EC funded project 1996-1999 (collaboration with China)
- see appendix for recent funding given to KL as a project leader
- established my own research group in 1984
- supervision of 8 post-doc researchers
- main supervisor of 15 and co-supervisor of 7 PhD theses in Finland and abroad
- supervisor of 40+ M Sc theses

9. Merits in teaching and pedagogical competence

- pedagogical training and competence: 50 credits of university pedagogical studies
- involved in development of all major courses and the curriculum as well as interntional M Sc courses in microbiology 1979-2013 and in Sustainable development 2013-
- organised several international PhD courses in environmental biotechnology, bioinformatics, soil sciences and sustainable development1993-2012 (in Ethiopia 2010, 2012)

10. Awards, prizes and honours

- Helge Gyllenberg's award to a young microbiologist 1987
- NOVA prize for the Nordic network Soils and Society 2009

11. Other academic merits

- Served as a pre-examiner10 times, as an opponent of 16 doctoral dissertations and as a member in dissertation committees abroad 6 times
- Reviewer of professor's or associate professor's (försteamanuesnsis, universitetslektor competence 1994, 2000 (2x) and 2001 (3x), 2003, 2011 (2x), 2012 (University of Khartoum, SLU, University of Zimbabwe, University of Tromsö, Univ. Lund) and docent's competence 11 times (domestic and abroad) evaluation of academic/scientific or artistic competence (e.g. title of docent)
- Member of international peer evaluation committees of funding applications: reviewer of research proposals
 for EC, Academy of Finland, Belgian government, Czeck government, Academy of Finland, National Environment
 Research Council, U.K., International Science Foundation, Stockholm, The Israel Science Foundation, STINT, SJFR,
 SIDA Sweden, Genome Canada, Icelandic research Board, Project Management Jülich, Division Bioinnovation
 and Bioeconomy Germany, Danish Research Council, Research Council of the Netherlands, Research Council of
 Soulth Africa
- Member of Skogs- och Jordbruksvetenskapliga Forskningsrådet, ecology section, biogeochemistry group, Sweden1997-2002, now FORMAS, SIDA 2006-2007
- Member of Societas Biochemica, Biophysica and Microbiologica Fenniae, representative of the society in the
 International committee for bacterial systematics; Agricultural Scientific Society of Finland; International Society
 for Plant Molecular Biology; International Society for the Molecular Biology of Plant-Microbe Interaction, Finska
 vetenskapssocieteten 2010-, Board member 2014-; Svenska Tekniska Vetenskapsakademien i Finland 2012-
- Member of the International Committee for Systematic Bacteriology, Rhizobium and Agrobacterium subcommittee 1992-, secretary 1995-2014; Member of the ethical committee of the Faculty of Agriculture and Forestry, University of Helsinki; 1991-; Member of the committee for post gradual studies of the Faculty of Agriculture and Forestry, University of Helsinki 1995-2000, chairperson 1998-2000; Member (representative of

professors) of the committee for environmental studies of the Faculty of Agriculture and Forestry 1996-98; Member of the faculty planning group 1999-2000; Member of Institution Board 1991-94, 1998-2000; Member of the faculty committee for development of teaching 2001-2007; Member of the faculty committee for evaluation of teaching skills 2005-2009; Founding member and first head of steering group of the NOVA-SoilSoc network Member 2007- 2013; member of departmental steering group 2013-17; member of faculty teaching committee 2013-; deputy member of faculty committee for research 2013-18;member of faculty board 2018-

- Chair of the steering group of the international MENVI M Sc programme 2009-2013
- Chair of DENVI doctoral programme 2014-17
- Finlands Natur editorial board 1974-88, editor 1974-78; European Journal of Soil Biology editor 2007-; FEMS Microbiology Ecology editorial board 2006-
- Referee for over 20 journals
- Invited keynote lectures abroad several times
- Current research group consists of three post doctoral fellows, three PhD students and associated (foreign and
 domestic) PhD students. Our main focus is on biodiversity of plant beneficial bacteria: molecular taxonomy,
 molecular biology and molecular ecology of rhizobia and their leguminous hosts, bioremediation using the
 legume rhizosphere as the habitat for degraders, nitrogen cycle in soil; plant growth-promoting rhizobacteria;
 work with Ethiopian farmers on biofertilizer use, collaboration with Norwegian scientist and Chinese company
 on biofertilizer production.

12. Scientific and societal impact of research

- Total number of scientific publications 143
- Numerous appearances in media (see TUHAT database), public presentations and articles meant for the public on e.g. biological nitrogen fixation, genetically modified organisms and education
- Collaboration with Finnish and Ethiopian biofertilizer producers
- Long-term collaboration with Chinese scientists 1989- and Ethiopians 2005-
- Leader of Helsinki Challenge team Ground&Growth selected for semifinal 2014-15.

13. Positions of trust in society and other societal merits

- Member of national committee designing national hygiene test for persons working with easily spoilt food (2001-02)
- Member of Board of Victoriastiftelsen 1998-2005
- Member of national working group organising seminar on gene technology and environment (2001-02)
- Member of the Finnish Board for Biotechnology 2004-2013
- Member of Board of Research Foundation for Women 2003-, Chair 2009-2013
- Member of programme committee for Finnish Science Days 2015 and 2017
- Member of international advisory board of major conferences on biological nitrogen fixation
- Member of the steering board of the Arcada University of Applied Sciences 2014-
- Member of committee for societal interaction at the University of Helsinki 2014-

14. Other merits

Numerous public appearances in newsmedia such as Yle

APPENDIX

MAJOR RESEARCH GRANTS 1996-2016

YEAR	TITLE	SOURCE	FUNDING (EURO)

1996-2002	Bioremediation using the legume rhizosphere and gene ecology	Maj and Tor Nessling Foundation	~ 150 000
1996-1999	Exploitation of Chinese biodiversity resources in sustainable crop production, using a biotechnological approach for rhizobial diversity evaluation, strain improvement and risk assessment (Co-ordinator)	EC - INCO	230 000
1996-2000	Symbiosis and defence	EC - TMR	185 000
1997-2001	Genetic diversity and phylogeny of Sinorhizobium meliloti, S. medicae and Rhizobium galegae in relation to their host plants	INTAS	4 250
1997-2001	Evaluation et utilisation de la biodiversité des microsymbionts de <i>Calliandra calothyrsus</i> pour optimiser la production fourragère au sein de petites exploitatios agricoles en zone humide	EC - INCO	62 601
1998-2000	Ecological studies with genetically marked rhizobia: A field release	Academy of Finland	152 605
2000-2003	Prevention of land degradation in the Aral Sea region undergoing disastrous desertification by increasing tolerance of symbiotic nitrogen fixation to salinity	EC - INCO	111 499
2000-2003	Multipurpose nitrogen fixing trees and their associated microsymbionts for soil nutrient enrichment in Sub Saharan Africa	EC - INCO	70 076
2000-2003	Specifik igenkänning och försvar vid Rhizobium – baljväxtinteraktion	University of Helsinki	67 227
2000-2003	Monitoring ecological interactions in the legume rhizosphere	Academy of Finland	276 151
2001-2003	Monitoring ecological interactions in the legume rhizosphere	Academy of Finland	93 815
2001-2003	Phytoremediation of oil-contaminated soil	University of Helsinki	34 874
2001-2003	Effect of rhizoremediation on microbial ecology of soil: monitoring the cleaning process	Neste (Fortum) Foundation	50 420
1996-2001	Exchange of scientists	Academy of Finland	16 000
2003-2005	Developing a genomic toolbox for exploring and exploiting bacterial biodiversity	EC – Quality of life	250 000
2002-2004	Unseen Archaea in northern habitats (with Uwe Münster)	Academy of Finland	363 900
2003-2005	Symbiotic legumes for sustainable food production and prevention of land	Academy of Finland	300 000

	degradation in China		
1996-2002	NKJ collaboration (Nordic)	No special funding	
2003-2005	Stipend for graduate studies	Victoriastiftelsen	27 200
2002-2004	Invitation of Russian scientist	Academy of Finland	50 000
2005-2007	Bioremediation of oil-contaminated soil	Nessling foundation	100 000
2005-2007	Exchange fellowship to China	Academy of Finland	10 000
2005	EU project preparation grants	University of Helsinki	10 700
2005-2006	Invitation of Russian scientist	Academy of Finland	18 000
2005	PhD thesis grant, Minna Jussila	University of Helsinki	3 300
2005	PhD thesis grant, Qiang Zhou	University of Helsinki	3 300
2005	Pro gradu stipend, Aura Nousiainen	Ekokem foundation	5 000
2005	PhD thesis grant Qiang Zhou	CIMO	3 240
2007-2009	Characterization and conservation of Ethiopian rhizobial biodiversity, and exploring their use in sustainable agroforestry	Academy of Finland	300 000
2010-2013	Molecular mechanisms affecting symbiotic effectiveness in rhizobium - legume symbioses (SYMBEF)	Academy of Finland	650 000
2009	Sustainable use of tropical soils course, Ethiopia	NOVA	33 000
2009	ICI-SAU planning grant	ForMin	30 000
2009-11	CIMO grants (Aregu Aserse, CIMO-NSS)	CIMO	100 000
2011-12	MICCO and HSS symposium grants	Magnus Ehrnrooths stiftelse	9 000
2011	Sustainable use of tropical soils course, Ethiopia	NOVA	44 000
2011, 2012, 2014	Travel and research grants	Societas Scientarum, Magnus Ehrnrooth Foundation	17 000, 20 000, 12 000, 2500
2013	SOILMAN research project	Academy of Finland	585 000

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2015, 2016	Nitrous oxide related bacterial activity and diversity in agricultural soil; post doc research grant	Magnus Ehrnrooth Foundation	28 000, 28 000
2015	Invitation of Ethiopian reseracher	CIMO	13 500
2016	Biofertilizer development	Kingenta Inc, China	106 000
2017, 2018	Travel grant, grant for post doc	Societas Scientarum	2000, 8000
2018	Research grant ERA-Net Agri-LEAP	Academy of Finland	ТВА
TOTAL	approx.		4 100 000