

## CURRICULUM VITAE

### Marja Makarow

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## POSITIONS

### Chief Executive

**European Science Foundation**, Strasbourg, France  
since 1.1.2008

**Vice-Rector** (Research, Doctoral Training, Innovation & Technology Transfer)  
University of Helsinki, 1.8.2003-31.12.2007

**Professor** of Applied Biochemistry and Molecular Biology  
University of Helsinki, since 2003 (leave of absence till 31.12.2012)

**Research Director**, Program in Cellular Biotechnology,  
Institute of Biotechnology, University of Helsinki, 2000-2004

**Professor** of Medical Biochemistry  
Medical Faculty, University of Kuopio, Finland, 1998-2000

### Senior scientist

Academy of Finland, 1997-1999

### Group leader

- Institute of Biotechnology, University of Helsinki 1990-1997
- Recombinant DNA Laboratory, University of Helsinki 1984-1989

### Post-doctoral researcher

- European Molecular Biology Laboratory (EMBL), Heidelberg, 1981-1983
- Department of Virology, University of Helsinki 1980-1981

**Clinical chemist**

University Hospital Helsinki 1979-1980

**Ph.D. candidate**

Laboratory of Lipid Chemistry, Haartman institute, University of Helsinki 1975-1978

## **ACADEMIC DEGREES** (University of Helsinki) and **OTHER QUALIFICATIONS**

**Master of Science** (Majors in Biochemistry and General Microbiology), 1975

**Doctor of Philosophy** (Biochemistry), 1979

**Docent** (Biochemistry), 1984

**Specialist qualification in management**, 2006

## **POSITIONS OF TRUST IN SCIENCE POLICY, RESEARCH MANAGEMENT, ASSESSMENTS, INNOVATION**

**Government of Finland**

Member of the National Council for Science and Technology Policy, chaired by the Prime Minister and reporting to the Government and Parliament, 2007-2011.

**Academy of Finland**

- Member of Board for impact analysis and foresight of public research funding, 2007-2008
- Member of Research Council for Health, 1998-2003
- Chair of Working Group for international researchers' mobility and funding of doctoral programmes (Research Council for Health), 2001-2003
- Chair of Steering Group of Research Programme Microbes and Man, realized jointly with the Swedish Foundation for Strategic Research, 2002-2007
- Chair of Steering Group of Research Programme Systems Biology & Bioinformatics, 2003-2008
- Member of Working Group for mapping the need for doctoral training, 2003
- Member of Working Group for development of researcher mobility between industry and academia, 2003-2005

**Ministry of Education, Finland**

- Member of Working Group for development of doctoral training, 2003-2006
- Member and Vice-Chair of Working Groups for development and funding of researchers' careers, 2004-6 and 2007-8
- Member of Working Group for development of the funding model of universities, 2005-2006

**Ministry of Trade and Commerce, Finland**

- Member of Steering Committees for impact assessments of the Finnish Foundation of Innovation, in 1997 and 2006

**European Molecular Biology Conference EMBC/EMBO**

Intergovernmental research funding organization of 26 member states

- Delegate of Finland, 1999-2007
- President, EMBC, 2004-2007
- Member (since 2001) and Chair (2004-2007) of EMBC Strategic Working Party

**European Molecular Biology Laboratory EMBL**

Intergovernmental research performing organization of 20 member states

- Delegate of Finland for Council, 1999-2007

**Science Foundation Ireland SFI**

National funding agency for excellence in scientific research, mostly in the domains of ICT, engineering, natural science, bioscience and biomedicine

- Member of Board, 2006-2007
- Member of Board Sub Panel on Programme Grants, 2006-2007

**Research Foundation Flanders FWO, Belgium**

Member of International Jury of the Odysseus programme, 2006-2007

**Austrian Science Fund and Austrian Federal Ministry for Science and Research**

Member of evaluation panel for the programme "Research Infrastructure IV and Temporary Chairs 2007/2008

**Canada Foundation of Innovation CFI**

Funding agency of research infrastructure for universities, research hospitals and colleges  
Member of Multidisciplinary Assessment Committee, 2006

**European Research Council**

Panel member (genetics, genomics, bioinformatics, systems biology), since 2007

**European Science Foundation ESF**

- Member (2004-2006) and Chair (2007) of the EURYI Life science panel
- Member of review panel of COST (European cooperation in the field of scientific and technical research) in the domain of Agriculture, Biotechnology, Food sciences, Forestry and Forest products, Environment and Meteorology, 2005

**Federation of the European Biochemical Societies FEBS**

Federation of societies of over 40 countries, 40 000 members

- Member of the Council and the Executive Committee, 2001-2004
- Chair of Working Group for Young Scientists' Issues, 2001-2004

**Licentia Oy Ltd.**

Technology transfer company owned by the University of Helsinki and the State of Finland  
Member (1997-2006) and Chair (2007-2008) of Board of Directors

### **The Millennium Technology Prize**

Member (2005-2006) and Chair (2007-2008) of International Award Selection Committee. The prize is the world's largest technology prize, targeted for life-enhancing technological innovations and sustainable development, financed by research-intensive industry and the State of Finland ([www.millenniumprize.fi](http://www.millenniumprize.fi))

**Connect Sweden Biomedical Partnership Forum** (annual all-Scandinavian forum for technology transfer in the Life Sciences)

Member of Scientific Advisory Board, 1999-2003

## **FUNCTIONS AS VICE-RECTOR**

The University of Helsinki, established in 1640, has 38000 degree students, 8000 staff, half of which researchers and teachers, 11 faculties and 6 research institutes, and an annual budget 0,5 billion €.

**Member of the Executive Committee** of the university (Rector, four Vice-Rectors and Administrative Director)

### **Chair of Scientific Council**

**Director of the Research Assessment Exercise** of the University of Helsinki. It covered research performed during 1999-2004 in all scientific disciplines of the University, altogether 24,000 researchers work years' results, and was carried out by peer review performed by 150 international experts ([www.helsinki.fi/research2005](http://www.helsinki.fi/research2005))

**Director** of the development of the concept, mode of operation, institutional partnerships and funding instruments for the **Institute for Molecular Medicine Finland (FIMM)** in 2005-2006, and **Chair of the Board** since 2007. FIMM is a joint operation of the University of Helsinki, National Public Health Institute KTL, Hospital District of Southern Finland, City of Helsinki, and VTT Technical Research Centre of Finland. FIMM is one of the three Nordic laboratories of the Nordic EMBL Partnership of Molecular Medicine (EMBL = European Molecular Biology Laboratory).

**Chair of Board of Helsinki Institute of Physics**, joint research institute of 4 Finnish universities, responsible for Finnish activities in CERN, Geneva

### **Finnish Institute for the Verification of the Chemical Weapons Convention**

Joint institute of the Ministry of Foreign Affairs and the University of Helsinki  
Board member

**Board member of the Drug Development Technology Center**, 2003-2005

**Chair of Working Group** for analysis and development of teaching, research, collaboration and commercial activities in **nanotechnology** in the Helsinki Metropolitan area, 2004-2005

**Chair of Working Group** for reorganization of **laboratory animal core facilities**, 2006

**Initiator and developer** of the **joint PhD degree agreement** between the University of

Helsinki and EMBL, initiator of the **joint PhD programme** in biomedicine between the University of Helsinki and Karolinska Institute

**Initiator and developer** of training programme for post-docs and young principal investigators in transferable skills, research management and career development

### **League of European Research universities LERU**

(20 universities selected by quality of research, [www.leru.org](http://www.leru.org))

- Member of Rectors' Assembly
- Member of working groups on:
  - EU research policy
  - Development of doctoral training
  - Researchers' careers

## **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

**Societas Biochemica, Biophysica et Microbiologica Fenniae**, member since 1978

**American Society for Cell Biology**, member since 1984

**International Association for Women Bioscientists**, president 1992-1994

**Finnish Academy of Science and Letters**, member since 2003

## **AWARDS, HONOURS AND DECORATIONS**

- Federation of European Biochemical Societies, Young Scientist's Award, 1984
- Runar Bäckström Invention Award, 1994
- Culminatum Ltd. Invention Award, 1996
- Member of the Biocentrum Helsinki Center of Excellence, 1997-2007
- Order of the White Rose of Finland, class I medal, 2001
- Chevalier de l'Ordre des Palmes Académiques de France, 2002

## **DOCTORAL TRAINING ACTIVITIES**

### **Supervision of Ph.D. theses**

15 Ph.D. theses supervised to completion

### **Viiikki Graduate School in Biosciences**

Director of the doctoral Programme of the Viiikki Biocenter, University of Helsinki

(<http://www.biocenter.helsinki.fi/viikkigs/>), 1999-2007

## **RESEARCH ACTIVITIES**

Fundamental research in the field of molecular molecular cell biology, published mostly in high impact journals. Discoveries of novel molecular mechanisms concerning intracellular traffic of proteins using cultured mammalian cells and yeast cells as models. (N.B. publications before 1984 as Marja Pesonen). Inventor of two patented technologies for production of mammalian proteins in yeast.

## **OTHER SCIENTIFIC AND OUTREACH ACTIVITIES**

- Opponent and referee for Ph.D. theses
- Referee for professorships and for international scientific journals
- Organization of 12 international symposia since 1988
- over 40 scientific talks in international conferences since 1996
- over 20 publications on science policy and researcher training since 1999
- over 70 appearances in the media on science policy issues since 1996

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