

## Curriculum Vitae

### **MARJA MAKAROW**

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## 1. POSITIONS

**Current position**, Director of Biocenter Finland since July 2016

### Earlier positions

- Vice-President of the Academy of Finland – Finnish Research Council 1.8.2012-30.6.2016
- Chief Executive, European Science Foundation (ESF), Strasbourg, France 2008 - 2011
- Vice-Rector (Research, Doctoral Training, Innovation), University of Helsinki 2003-2007
- Professor of Applied Biochemistry and Molecular Biology, University of Helsinki, from 2003
- Research Director, Cellular Biotechnology, Institute of Biotechnology, Univ Helsinki 2000-2002
- Professor of Medical Biochemistry, University of Kuopio 1998-2000
- Principal investigator, University of Helsinki, Institute of Biotechnology 1990-1999
- Post-doctoral researcher, EMBL Heidelberg, 1981-1983
- PhD candidate, Laboratory of Lipid Chemistry, University of Helsinki, 1975-1978

## 2. ACADEMIC DEGREES (University of Helsinki)

Master of Science, biochemistry 1975; Doctor of Philosophy, biochemistry 1979; Docent 1984

## 3. RESEARCH UNIVERSITIES AND INSTITUTES

### Governance and strategy

**Tampere University Foundation Finland**, founding chair of Board of new university, since July 2017

**Aalto University Finland**, founding vice-chair of Board of new university 2008-2012

**League of European Research Universities LERU**, Rector's Assembly 2003-2007

**Member of strategic advisory councils** of universities of Heidelberg (since 2008), Geneva (since 2009) and Strasbourg (2011-2012), and of the Slovakian Academy of Sciences since 2017

**EMBL** Finnish delegate of Council 1999-2007

**EMBC/EMBO** President 2004-2007

**Assessment of institutional research quality** of 5 European universities and 3 research institutes

**Assessment of Excellence Programmes** in Belgium, Norway, Denmark

**Assessment and governance of Research infrastructure** in Austria, Canada, Sweden, Finland and ESFRI

## 4. SCIENCE POLICY, ADVISORY, GOVERNANCE AND ASSESSMENT FUNCTIONS

### European Union and Europe

**European Institute for Innovation and Technology EIT** member of Governing Board of the since 2012

**Assessment of the Georgian research system**, assignment in the frame of the EU-Georgia Association Agreement 2017

**EU's Joint Research Center JRC** member of evaluation panel of 2015 and 2017

**Future and Emerging Technologies FET** member of Advisory Board the program 2014-2017

**Eurostars** programme chair of final evaluation of 2014

**Joint Programming GPC** member of high-level group for 2012-June 2016

**European Research Area Board (ERAB)** member of 2008-February 2012

**European Research Council ERC** member (2007-2010) and chair (2011-2013) of panel of Starting Grants (LS2, genetics, genomics, bioinformatics and systems biology)

**European Science Foundation** governance and steering of over 40 foresight and science position papers for decision-makers and scientific communities on all scientific and scholarly research domains 2008-2011

## Government of Finland

**Member of Advisory group** for the Finnish Prime Minister and Government on research and innovation policy of the European Union 2012-June 2016

**Ministries of Education/Research, Employment/Economy and Health/Social Affairs**, working group authoring national Growth Strategy for Health Research and Innovation 2014-2016

**Member of the Prime Minister's Research and Innovation Policy Council of Finland** 2007-2011

**Ministry of Education, Research and Culture** of Finland, working group for Doctoral training 2003-2005 and Researchers' careers 2004-2008

### 5. RESEARCH AND RESEARCHER TRAINING ACTIVITIES, molecular cell biology and biotechnology

Discovery of mechanisms of 1) Translocation of C-tail-anchored proteins into the yeast endoplasmic reticulum (ER); 2) A chaperone functions unfolding prefolded proteins for translocation from cytosol into ER and repairing misfolded proteins in the ER; and 3) COPI-independent vesicular traffic from the ER to Golgi. Translation of research findings into patented technologies for protein production in yeast.

**Supervision of 19 Ph.D. candidates'** theses to completion.

**Founding director** of the doctoral programme Viikki Graduate School in Molecular Biosciences, University of Helsinki 1999-2007

### 6. INNOVATION

**Millennium Technology Prize**, the world's most significant EUR 1 million prize for radical innovations, awarded by Technology Academy Finland, chair of Board since 2015

**Innovation Prize for Women** of the Parliament of Finland, chair of evaluation panel since 2017

### 7. SERVICES TO FUNDING ORGANISATIONS expert advice, assessment of performance, peer review

**Nordforsk** (cross-border research collaboration body for the 5 Nordic countries' research councils, chair of Board 2014- 2016

**Science Europe**, member of Assembly 2012-June 2016

**Research Council Norway**, panel member of assessment of the organisation, 2012

**Canadian Research Council Natural Science and Engineering**, member of panel of assessment and development of indicators for research funding, 2011

**Slovenian research Agency**, coordination of assessment of the agency, 2011

**Science Foundation Ireland SFI**, member of Board, 2006-2007

**Academy of Finland**, member of Research Council for Health, 1998-2003

### 8. COMMUNICATION WITH SOCIETY AND STAKEHOLDERS

**Since 2008 annually over 10 articles**, interviews, quotes and presentations on science policy, assessment and funding of research, researchers' careers and training, women in science, university reforms, innovation and national STI systems in European media.

**ESOF Manchester 2016 Programme Committee member**

**Unesco Who's Who of Women Speaker** since 2016

**Technology programme for children and youth** of Technology Academy Finland since 2015

### 9. MEMBERSHIPS OF SCIENTIFIC SOCIETIES, AWARDS, DECORATIONS, HONOURS, selected

Chevalier de l'Ordre des Palmes Académiques, France 2002 ; Finnish Academy of Science and Letters 2003 ; *Academia Europaea* since 2009; Commander of the Order of the White Lion Finland, 2015; Doctor *Honoris Causa* Tampere University of Technology 2017

### 11. LANGUAGE SKILLS Finnish (*mother tongue*), English, French, German, Swedish