



Helsinki, January 2018

Curriculum Vitae of Marja-Liisa Riekkola

1. Full name

First name: Marja-Liisa

Last name: Riekkola

Gender: Female

2. Education and degrees awarded

Doctor of Philosophy (Ph.D.), University of Helsinki, Analytical Chemistry, 1983

Licentiate of Philosophy (Ph.Lic.), University of Helsinki, Analytical Chemistry, 1981

Master of Science (M.Sc.), University of Helsinki, Analytical Chemistry, 1977

Bachelor of Science (B.Sc.), University of Helsinki, Chemistry, 1976

Title of docent: Analytical Chemistry, University of Helsinki, 1983

3. Other education and training, qualifications and skills

Acting as the Mentor in the the EU 6th Framework project “Advanced training for women in scientific research (ADVANCE)” to promote the Mentee in terms of career development, networking, organisational know-how, etc. within the academic and industrial research context during 19.4.2007 -10.1.2008.

Acting mentor for senior academy fellow in psychiatric genetics (scientific motivation, career planning and networking, leadership issues), February 2015-April 2016.

Taking part in academic leadership training.

4. Linguistic skills

Mother tongue: Finnish

Other languages: English (fluent), Swedish (satisfactory), Germany (passable)

5. Current position

Full Professor in Analytical Chemistry, Department of Chemistry, University of Helsinki, Finland since November 1987

2018-2021 Vice-Dean (Research and Research Infrastructure) of Faculty of Science, University of Helsinki

6. Previous work experience

1977-1984 Research Scientist (Academy of Finland), University of Helsinki

1984-1987 Acting Professor in Analytical Chemistry, University of Helsinki

1983 Visiting Scientist, Kantonales Labor, Zürich, Switzerland (Dr. K. Grob)

1984 Visiting Researcher, University of Colorado, Cooperative Institute for Research in Environmental Sciences, Boulder, Colorado, USA (prof. Robert Sievers)

1994 Visiting Professor, Toyohashi University of Technology, Toyohashi, Japan (Prof. Kiyokatsu Jinno)

1983-2016 Head of Laboratory of Analytical Chemistry, Department of Chemistry; University of Helsinki

2007-2013 Vice-Dean (Research) of Faculty of Science, University of Helsinki, Finland

2018 August-September, Dean, Faculty of Science, University of Helsinki

7. Funded research projects since 2014

Academy of Finland, 2014-2019, “Centre of Excellence in Atmospheric Science– From Molecular and Biological Processes to Global Climate”

Academy of Finland, Research Council for Natural Sciences and Engineering, 2015-2016, “ICT sensor solutions for reliable detection of volatile gases from biogenic sources”

Magnus Ehrnrooth Foundation: 2014-2015, “Novel materials for sample collection”

Jane and Aatos Erkkö Foundation, 2015-2017, “Tailor-made miniaturized instrumental techniques and systems for innovative biological solutions”

Academy of Finland, Research Council for Natural Sciences and Engineering, 2017-2021, “Interactions – Key to successful isolation of biomacromolecules”

8. Merits in pedagogical competence

Responsible for the studies of M.Sc degree in analytical chemistry, University of Helsinki

Degrees awarded in analytical chemistry during 1984-2018: 450 M.Sc.

Supervision of 47 Phil. Lic. theses and 40 Ph.D. theses in analytical chemistry. Doctoral thesis of Lucia D’Ulivo was selected the best thesis in chemistry in Finland in 2010.

Supervised several foreign exchange students and scientists during their 3-6 months stay at the University of Helsinki

Supervised several postdocs for 1-4 years time period: German Georg Meissner, Spanish Jose Ruiz-Jimenez, Spanish Clara Banos, Spanish Lorena Vidal, Chinese Tao Bo, Chinese Ai-Jun Wang, Chinese Jie Chen, Chinese Yueqi Liu, Chinese Huwei Liu, French Geraldine Cilpa-Karhu, Argentinian Germán Alejandro Messina, Argentinian Patricia Stege, Chinese Nin Gan, Czech Jana J. Dyrtrtová, French Geoffroy Duporte, Finnish-Russian Evgeny Parshintsev.

Written the book Riekkola, M.-L. and Hyötyläinen, T., *Column Chromatography and Capillary Electromigration Techniques*, 1st Ed., Helsinki University Press, Finland, 2000, 329 pp. (in Finnish) and 2nd Ed., Helsinki University Press, Finland, 2002, 343 pp. (in Finnish) used as course material in several universities

9. Awards, prizes and honours

1995 Emmanuel Merck Prize in Chromatography

1996 Russian Tswett Medal in Chromatography

1999 Member of the Finnish Society of Science and Letter

6.12.2001 Knight, First Class, of the Order of the White Rose of Finland

2007 Member of Finnish Academy of Science and Letters

2008 Magnus Ehrnrooth Prize in Chemistry.

2013 Ranked to the top 100 most influential people in the analytical sciences in the world (the *Analytical Scientist Power List* 2013)

2015 Ranked to the top 100 most influential people in the analytical sciences in the world (the *Analytical Scientist Power List* 2015)

2016 Ranked to the top 50 Women in Analytical Science (the *Analytical Scientist Power List* 2016)

10. Other academic merits since 2005

Executive Editor: Since 2005 Editor of *J. Chromatography A* (Elsevier, Impact Factor 3.98).

Editorial board: *Electrophoresis* (Wiley-VCH), *J. Chromatographic Science* (Preston Publications), *J. Separation Science* (Wiley-VCH), *AIMS Environmental Science* (AIMS Press).

- 2006, 2007: IP-Project Evaluator of FP6 Thematic priority/Activity: Nanotechnologies and nanosciences, knowledge based multifunctional materials and new production processes and devices,
- Since 2004 Member of Evaluation Panel selecting the Komppa award winner, the best annual doctoral thesis in chemistry in Finland, the Finnish Chemical Society,
- 2005: Chairperson of Panel evaluating the Strategic Plans (2005-2009) of four Spanish Institutes or Centres: Instituto de Investigaciones Químicas located in Sevilla, Instituto de Ciencia de Materiales de Aragón, located in Zaragoza, Instituto de Investigaciones Químicas y Medioambientales located in Barcelona, and Centro de Investigaciones Científicas Isla de la Cartuja
- 2000 and 2006: Member of Evaluation Panel for Natural and Engineering Science, Swedish Research Council
- 2007: Member of Evaluation Panel of Chemistry and Molecular Sciences and Technologies (CMST), COST, Brussels.
- 2008: Member of Evaluation Panel of Chemistry at Uppsala University, Sweden
- 2009: Member of Evaluation Panel of Finnish-German Research Training cooperation/Joint Call of Deutsche Forschungsgemeinschaft and Academy of Finland
- 2009: Member of the Assessment Panel “Chemical Technology and Materials” in the Aalto University

Research Assessment Exercise 2009, Helsinki, Finland

- 2010: Panel Member of Research Evaluation for Development of Research at University of Gothenburg, Sweden
- 2014: Panel Member of R&D Review Committee (RRC) of the public-private partnership programme: Enabling analytical tools for new chemical and other innovations, PTA-COAST3, Comprehensive Analytical Science and Technology, Netherlands Organisations for Scientific Research, NWO.
- 2016: Panel Member of R&D Review Committee (RRC) of the public-private partnership programme: Enabling analytical tools for new chemical (and other) innovations, PTA-COAST4, Comprehensive Analytical Science and Technology, Netherlands Organisations for Scientific Research, NWO.
- 2017-2019: Panel Member of Independent Research Fund Denmark/ Natural Sciences (IRFD)
- 2018: panel Member of SFI Research Infrastructure Programme 2018, Science Foundation Ireland

Professorship evaluations abroad:

- Professor (tenure track) in Microfluidics, Tallinn University of Technology, Estonia
- Professor in analytical chemistry (Lund, Karlstad, Gothenburg and Oslo Universities, Sweden)
- Professor in inorganic analytical chemistry (University of Oulu, Finland)
- Professor in separation technologies and bioanalytics (University of Vienna, Austria)
- Qualification to the post of professor in analytical chemistry (University of Stockholm, Sweden)
- Qualification to the post of adjunct professor in analytical chemistry (University of Stockholm, University of Uppsala and University of Karlstad, Sweden)
- Qualification to post of professor in analytical biochemistry (Uppsala University, Sweden).
- Qualification to professor in biochemistry (Uppsala University, Sweden).
- Promotion to professor in analytical chemistry with emphasis on airborne chemical compounds (Stockholm University, Sweden).
- Associate professor in analytical chemistry, King Abdulaziz University, Saudi Arabia
- Assistant professor in analytical chemistry, Cyprus.

Senior lecturer and university lecture evaluations in Sweden:

- Senior lecturer in analytical chemistry (Royal Institute of Technology, Stockholm, Sweden)
- Both lecturer and university lecturer in analytical chemistry (Lund University, Sweden)
- Associate senior university lecturer in analytical chemistry (Lund University, Sweden)
- Senior university lecturer in analytical chemistry (Lund University, Sweden)

Docentship (ass. professorship) evaluations in Finland and Sweden: altogether 31 times

Acting as opponent of Ph. D. theses: four times in Finland, eleven times in Sweden (Karlstad University, Lund University, Stockholm University and Uppsala University) once in Norway (University of Oslo), once in the Netherlands (Leiden University), and ten times in Spain (Alicante, Cordoba, Madrid, Salamanca and Tarragona)

Presentations

Numerous invited keynote talks in international scientific conferences as well as several seminars at universities in several countries. E.g. during 2017 - 2018 altogether 8 invited lectures including two plenary lectures given in international conferences, and a few invited talks in domestic seminars.

11. Scientific and societal impact of research

Publications include over 372 scientific pre-reviewed papers, one book (1st edition and 2nd extended edition in Finnish), joint editor of *Liquid Chromatography* (Vols. 1 and 2, 2017, Elsevier) and eight book chapters, and over 200 other scientific papers. Editor of eight special journal issues.

12. Present positions of trust in society and other societal merits

- Member of Evaluation Board of the Komppa Award in Chemistry
- Chair of Scientific and Infrastructures Board of the Faculty of Science, and Member of Scientific Committee of University of Helsinki
- Permanent Scientific Committee Member of International Symposium on Electro- and Liquid Phase-Separation Techniques