

CURRICULUM VITAE

Full name: Osmo Henri Samuli Ollila

Gender: Male

Date of CV: 30.10.2018

Date of Birth: 2.6.1981

Place of Birth: Espoo, Finland

Nationality: Finland

Researcher ID: C-9453-2013

Current position:

Academy Research Fellow

Institute of Biotechnology, University of Helsinki, Finland

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Education:

06/06-12/10 Ph.D., Tampere University of Technology, Institute of Physics, Tampere, Finland, 8.12.2010

09/00-06/06 M.Sc., Helsinki University of Technology, Laboratory of Physics, Finland.

Research experience:

09/18-09/23 Academy research fellow in University of Helsinki, Finland

Institute of Biotechnology

07/13-current Leader of the NMRlipids project,

open scientific collaboration running at nmrlipids.blogspot.fi

01/17-10/18 Post doctoral research fellow in Institute of Organic Chemistry and
Biochemistry of the Czech Academy of Sciences, Czech Republic

Supervisor: Professor Pavel Jungwirth

09/16-08/18 Post doctoral research fellow in University of Helsinki, Finland

Institute of Biotechnology, NMR core facility

Supervisor: Dr. Hideo Iwai

01/13-09/16 Post doctoral research fellow in Helsinki Biophysics and Biomembrane Group (HBBG)

Department of Neuroscience and Biomedical Engineering

Aalto University, Finland

Supervisor: Professor Paavo Kinnunen

03/11-12/12 Post doctoral research fellow in Department of Physical Chemistry

Lund University, Sweden

Supervisor: Professor Daniel Topgaard

01/11-03/11 Post doctoral research fellow in Computational Soft Matter Research Group

Department of Applied Physics

School of Science and Technology in Aalto University

Supervisor: Academy Research Fellow Emppu Salonen

06/06-12/10 Ph.D student in Biological Physics and Soft Matter Group,

Institute of Physics, Tampere University of Technology

Supervisor: Professor Ilpo Vattulainen

09/07-04/08 The MD Group, Molecular and Mesoscopic Dynamics in Complex Systems

University of Groningen, The Netherlands

Long term research visit

Group leader: Professor Siewert-Jan Marrink

06/04-06/06 M.Sc. student in Biological Physics and Soft Matter Group,

Laboratory of Physics, Helsinki University of Technology

Supervisors: Professor Ilpo Vattulainen and Ph.D. Marja Hyvönen

06/03-08/03 M.Sc. student in Cellular Level Biophysics Group,

Laboratory of Biomedical Engineering, Helsinki University of Technology

Supervisor: Professor Ari Koskelainen

Research grants and leadership experience:

Academy of Finland, 1.9.2018-31.8.2023, 438 874 euro

Alfred Kordelin Foundation, 1.1.2011-31.12.2011, 24000 euro

Osk. Huttunen Foundation, 1.1.2012-31.12.2012, 32000 euro

Emil Aaltonen Foundation, 1.1.2013-30.1.2014, 25000 euro

Emil Aaltonen Foundation, 1.2.2014-1.3.2015, 27000 euro

Emil Aaltonen Foundation, 1.3.2015-31.8.2016, 29500 euro

The funding for three year work from Emil Aaltonen foundation is used within 3.5 years due to parental leave periods.

Manager and founder of the open collaboration NMRlipids project (currently 36 contributors) running at nmrlipids.blogspot.fi.

Teaching experience:

Courses:

Introduction to Structural Biology and Biophysics, **Department:** Institute of Biotechnology, University of Helsinki
Level: Graduate course in structural biology, University of Helsinki **Contribution:** Lecturer **Timing:** Autumn 2018

Molecular Biophysics, **Department:** Department of Neuroscience and Biomedical Engineering, Aalto University
Level: Undergraduate course in biophysics, Aalto University **Contribution:** Lecturer, responsible teacher
Timing: Spring 2016

Introduction to soft matter physics, **Department:** Department of Physics, Tampere University of Technology
Level: Undergraduate course in soft matter physics **Contribution:** Teaching assistant giving exercise sessions
Timing: Autumn 2008, Autumn 2009

Biological physics, **Department:** Department of Physics, Tampere University of Technology **Level:** Undergraduate course in biological physics **Contribution:** Teaching assistant giving exercise sessions **Timing:** Spring 2009, Spring 2010

Supervision of Theses:

Maria Lehtivaara, bachelor thesis **Title:** Lipoproteiinimallien pintajännityksen määrittäminen molekyyliidynamiikkasimulaatioista **Department:** Department of Physics, Tampere University of Technology (2010)
Examiner: prof. Heikki Huttunen

Saana Sandstrom, bachelor thesis **Title:** Interactions of lipid micelles with alcohols studied through atomistic simulations **Department:** Department of Physics, Tampere University of Technology (2009) **Examiner:** prof. Helge Lemmetyinen

Touko Apajalahti, special assignment **Title:** Interplay of Cholesterol and Polyunsaturated Lipids in a Lipid Membrane **Department:** Department of Physics, Tampere University of Technology (2009) **Examiner:** prof. Ilpo Vattulainen

Roberta Pigliapochi, Master thesis **Title:** Molecular Structure and Dynamics of a Nonionic Surfactant (C12E5) in Lamellar Phase : ¹³C Solid State NMR and MD Simulations **Department:** Physical Chemistry, Lund University (2012) url: <http://www.lunduniversity.lu.se/lup/publication/3132338> **Examiner:** prof. Daniel Topgaard

Antti Lamberg, Master thesis **Title:** Curvature Effects In Lipoprotein Fusion **Department:** Department of Physics, Tampere University of Technology (2010) url: <http://URN.fi/URN:NBN:fi:tty-2011091614807> **Examiner:** prof. Ilpo Vattulainen

Tiago Ferreira, Phd thesis **Title:** Structure and Dynamics in Amphiphilic Bilayers: NMR and MD simulation Studies **Department:** Physical Chemistry, Lund University (2013) url: <http://www.lunduniversity.lu.se/lup/publication/3878850> **Main supervisor:** prof. Daniel Topgaard

Josef Melcr, Phd thesis **Title:** Simulation of processes in cellular membranes **Department:** Institute of Organic Chemistry and Biochemistry v.v.i., AS CR (2018) **Main supervisor:** prof. Pavel Jungwirth

Awards

The AkzoNobel Nordic Prize for surface and colloid chemistry 2014

Other scientific merits

Subject editor for Research Ideas and Outcomes (RIO), <http://rio.pensoft.net/>

Several (7) invited talks in international conferences

Co-founder and manager of the NMRlipids project, Open Collaboration running at <http://nmrlipids.blogspot.fi/>.

Active debater on new scientific publication methods and Open Research in different media.