

Curriculum vitae with track record (for researchers)

Personal information

First name, Surname:	Reidar :Lund		
Date of birth:	19.12.1976	Sex:	M
Nationality:	Norwegian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	ResearcherID: F-3534-2014, Google Scholar: https://scholar.google.com/citations?user=6kViTegAAAAJ&hl=en		
URL for personal website:	www.softmatter.no		

Education

Year	Faculty/department - University/institution - Country
Nov 2004	PhD (Dr. rer. nat., Magna cum Laude). Institute for Solid State Research, Forschungszentrum Jülich/Department of Chemistry, University of Münster, Germany 2004.
2001	Master (Cand Scient.) Department of Chemistry, University of Oslo, Norway.

Positions - current and previous

(Academic sector/research institutes/industrial sector/public sector/other)

Year	Job title – Employer - Country
2022-	Professor, Department of Chemistry, University of Oslo.
2025-	Researcher (Científico Distinguido) at Donostia International Physics Centre (DIPC), San Sebastián, Spain.
2017-	Research Associate, Centre for Molecular Medicine Norway (NCMM), Nordic EMBL Partnership for Molecular Medicine.
2018-	Research Associate, Centre of excellence: Hylleraas Centre for Quantum Molecular Sciences, UiO.
2017-2022	Associate Professor, Department of Chemistry, University of Oslo.
2013-2017	Researcher, Department of Chemistry, University of Oslo, Norway.
2011-2013	Post Doctoral Research Associate. Department of Material Science, University of California, Berkeley, United States.

2007-2011	Post-doctoral Research Associate. Center for Material Physics (CSIC)/Donostia International Physics Center (DIPC), University of the Basque Country, San Sebastián, Spain
2005-2007	Post-doctoral research associate, Institute for Solid State Research, Forschungszentrum Jülich, Germany.

Project management experience

(Academic sector/research institutes/industrial sector/public sector/other. Please list the most relevant.)

Year	Project owner - Project - Role - Funder
2026--	UiO Life Science Convergence grant, PI/Consortium leader , 16.9 MNOK
2025--	MSCA Doctor Network (EU Horizon Europe programme) CLIMB (Complex Lipid Membranes for science and technology), 3.3 million euro (co-PI)
2025-	Nextstep Cofund (EU Horizon Europe programme) 101177133. (Supervisor for 1 PhD)
2020-	Norwegian Research Council (NFR) <i>Characterization and prediction of the CO2 effect of on polymeric materials within the CO2 transport chain.</i> 4 MNOK (co-PI)
2021-	Norwegian Research Council (NFR). <i>Assembling against Resistance: Antimicrobial Nanoparticles based on Molecular Assembly</i> 9.2 MNOK (PI)
2017-2020	NORDFORSK <i>Antimicrobial Peptides seen by Neutrons</i> (Funded positions: Josefine Eilsø + Abdullah Lone) 5.4 MNOK (PI)
2013-2016	Norwegian Research Council (NFR) <i>Self-healing Hydrogels for Nanomedicine: Understanding the Fundamentals through Neutron & X-ray Scattering combined with Model Systems</i> SynkNoyt project (PN: 228573/F50.) 3.2 M NOK (PI)
2014-2015	Fellow at the Peder Sather Centre with the University of California, Berkeley (PI) <i>Programmable Self-assembly and Folding of Synthetic Proteins in Solution.</i> 25 000 \$
2013-2016	Norwegian Research Council (NFR) <i>Self-assembly of Responsive Polymer/Peptide-based Micelles for Biomedical Applications Studied by State-of-the-art Scattering Techniques</i> SynkNoyt project (PN: 8411/F50.) 3.2 MNOK

Supervision of students

Master's students	Ph.D. students	University/institution - Country
15	9	University of Oslo (NO) (In addition, currently 1 Msc . and 3 PhDs)
1	0	University of California-Berkeley (US)
1	1	University of Pais Vasco (ES)

Other relevant professional experiences

(E.g. institutional responsibilities, organisation of scientific meetings, membership in academic societies, review boards, advisory boards, committees, major research or innovation collaborations, other commissions of trust in public or private sector)

Year	Description - Role
2019-2022	Project coordinator for the University of Oslo for the InterReg project: "The Hanseatic League of Science (HALOS)" (EU).
2015-2019	Project coordinator for the University of Oslo for the InterReg project: "ESS & MAX IV: Cross Border Science and Society" (Øresund-regionen/EU).
2015-2019	Coordinator of the NordForsk network for "Soft and biological materials" within the Joint Nordic Neutron Science Programme.
2019-	Project coordinator for the University of Oslo for the InterReg project: "The Hanseatic League of Science (HALOS)" (EU).
2020-	Review Editor <i>Frontiers of Soft Matter</i>
2020-	Editorial board member Journal Colloid & Interface Science (JCIS) Gold
2020-	Member of the advisory committee / beam allocation panel (C08) at the ESRF, France.
2020-2023	Member of the advisory committee at the MAXIV, Sweden.
2015-	Co-chair of the Norwegian Neutron Scattering Association (NoNSA).
2014-	Advisory Board, "Soft Matter" for proposals for neutron scattering experiments at the Heinz Maier-Leibnitz Zentrum (MLZ)/ Technische Universität München (TUM), Germany.
2014-	Leader of the Macromolecular Section of the Norwegian Chemical Society (Norsk Kjemisk Selskap).

Track record

H-factor 41 (Google scholar), in total >120 publications (>25 last 3 years) incl. > 15 in high impact journals: 2 *JACS*, 2 *PNAS*, 1 *ACS Nano*, 1 *Small Structure*, 8 *Phys Rev Lett.*, , 2 *Angew. Chemie (Int.ed)*, 2 *Chem. Commun.*, 1 *J. Phys. Chem Lett*; 3 Several book chapters and popular scientific publications. > 30 invited talks at international events including plenary and keynote presentations.

10 selected publications (last 5 years)

1. Koynarev, V. R.; Nader, M.; Borgos, K. K. A.; Muselli Cezar, H. ; Porcar, L.; Narayanan, T, Cascella, M.. and **Lund, R*** "Structural pores not required: antimicrobial peptides induce ion permeabilization of lipid membranes through transient water channels" *Proc. Nat. Acad. Sci.* **2025**, *122* (44) e2517944122
2. Koynarev, V. R.; Borgos, K. K. A.; Kohlbrecher, J.; Porcar, L.; Nielsen, J. E. and **Lund, R*** "Antimicrobial Peptides Increase Line Tension in Raft-Forming Lipid Membranes" *J. Am. Chem. Soc.* **2024**, *146* (30), 20891–20903.
3. König, N.; Szostak, S. M.; Nielsen, J. E.; Dunbar, M.; Yang, S.; Chen, W.; Benjamin, A.; Radulescu, A.; Mahmoudi, N.; Willner, L.; Keten, S.; Dong, H.; **Lund, R***. "Stability of Nanopeptides: Structure and Molecular Exchange of Self-Assembled Peptide Fiber"s. *ACS Nano* **2023**, *17* (13), 12394–12408.
4. Nielsen, J. E.; Koynarev, V. R.; **Lund, R***. «Peptide Meets Membrane: Investigating Peptide-Lipid Interactions Using Small-Angle Scattering Techniques». *Current Opinion in Colloid & Interface Science* **2023**, *66*, 101709.
5. Bjørnstad, V.A., Soto-Bustamante F.; Tria, G. Laurati, M., and **Lund, R***. "Beyond the Standard Model of Solubilization: Non-Ionic Surfactants Induce Collapse of Lipid Vesicles into Rippled Bilamellar Nanodiscs." *Journal of Colloid and Interface Science* **2023**, *641* 553–67.

6. Bjørnstad, V.A and **R. Lund*** "Pathways of Membrane Solubilization: A Structural Study of Model Lipid Vesicles Exposed to Classical Detergents» **Langmuir** **2023**, 39, 11, 3914–3933 *Selected front cover*
7. Nielsen J. E and **R. Lund*** Molecular Transport and Growth of Lipid Vesicles Exposed to Antimicrobial Peptides, **Langmuir** **2022**, 38, 1, 374–384. (Selected as cover)
8. Bjørnstad, V.A., Orwick, M. and **Lund, R.** Understanding the Structural Pathways for Lipid Nanodisc Formation: How Styrene Maleic Acid Copolymers Induce Membrane Fracture and Disc Formation **Langmuir** **2021**, 37, 20, 6178–6188
9. Schäfer, K.; Kolli, H. B.; Killingmoe Christensen, M.; Bore, S. L.; Diezemann, G.; Gauss, J.; Milano, G.; **Lund, R.***; Cascella, M. Supramolecular Packing Drives Morphological Transitions of Charged Surfactant Micelles. **Angew. Chem. Int. Ed.** **2020**, 6, 3–9.
10. König, L. Willner, N, Mahmoudi, V. Pipich and **Lund, R.*** "Tale of Two Tales: Molecular Exchange Kinetics of Telechelic Polymer Micelles " **Phys. Rev Lett.**, 2020, 124, 197801.

Selected invited talks at international conferences (last 5 years)

1. *Plenary speaker* "20th European Student Colloid Conference (ESC 2026), Donostia-San Sebastián, 29.6-03.07.2026
2. "The International Chemical Congress of Pacific Basin Societies (Pacifichem 2025)", Honolulu,US 15-20nd of December, 2025
3. *Keynote speaker* "Nordic POP Annual meeting", Copenhagen, Denmark, 20-22nd of August, 2025
4. «10th International Discussion Meeting on Relaxations in Complex Systems (10thIDMRCS)», Barcelona, Spain, 20 – 25th July 2025. (Not accepted)
5. "European Biophysical Conference" (EBSA 2025), "Mechanism(s) of antimicrobial peptides: what can we learn from x-ray & neutron scattering techniques?" 30th of June- 4th of July,2025, Rome, Italy.
6. *Plenary speaker*, "International Small-angle Scattering conference (SAS2024)", Taipei, Taiwan, 3-8th of November, 2024.
7. "Cutting-Edge in Soft Matter Science 2024 , Fusion of Physics, Chemistry, Simulations, and Scattering" "Mechanism for Molecular Exchange Kinetics in Block Copolymer Micelles with Amorphous and Crystalline Cores" October 30 & 31, 2024 at Kitakyushu, Japan
8. "Northern Lights", "Solubilisation of Lipid Membranes" Lund, Sweden, 7-9th of June 2023
9. *Plenary talk*, "Scandinavian Biomaterials (16th ScSB Meeting)" «Antimicrobial Peptides: from lipid membrane interactions to antimicrobial nanoparticles "Røros, Norway, 21-24 March, 2023
10. "D11 50 year, Institut Laue Langevin", "Kinetics of Block Copolymer Micelles", 26-28th of October, 2022, Grenoble, France "
11. International SMALP Conference, "Mapping the formation of SMALP nanodiscs from lipid bilayers using X-rays" University of Alberta, Canada 1st of October 2021 (virtual meeting).
12. German Physics Society annual meeting (DPG Tagung), Dresden, 16-20 March, 2020.