

ORCID 0000-0002-7018-0137

DATE OF BIRTH October 26, 1966

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EDUCATION

1997 (Aug 8th) PhD, Aarhus University (AU), Denmark (DK)

1995 Master of Science, AU

SCIENTIFIC FOCUS AREAS

We apply a strong background in oxidative protein folding and redox regulation in the ER of mammalian cells to produce and study disulfide-rich animal venom peptides. Specifically, we have established new systems to express disulfide-rich peptides and proteins in the cytosol of *E. coli* with the primary aim of producing previously uncharacterized animal venom proteins for structural and functional analysis to ultimately generate new research tools and drug leads.

POSITIONS

2014-Full Professor, Dept. of Biology (BIO), UCPH, DK

2006-14 Associate Professor, BIO, UCPH, DK

2003-05 Independent group leader, Inst. of Biochemistry, ETH Zürich (ETHZ), Switzerland (CH)

2001-03 Oberassistent (senior postdoc) with Prof. A. Helenius, Inst. of Biochemistry, ETHZ, CH

1999-2001 Visiting postdoc with Prof. K. Wüthrich, Inst. of Mol. Biol. and Biophysics, ETHZ, CH

1997-2001 Postdoc with Prof. A. Helenius at Yale University, USA, and Inst. of Biochemistry, ETHZ, CH

RESEARCH LEADERSHIP/MANAGEMENT, ACADEMIC HONORS AND POSITIONS OF TRUST

2023-Editor, Toxins

2020-Management committee, EU COST Action program (European venom network/EUVEN)

2006-Head of own research group

2002- Organizer/co-organizer of six international conferences

2020-23 Deputy Head of Department for Teaching, BIO, UCPH

2020 LUKU-basis leadership course, UCPH

2017-19 Chair (2019) and vice chair (2017), BIO professor promotion committee

2007-15 Co-organizer of the BIO seminar series

2007-09 Appointed member of the BIO Research Committee

2005 Novo Nordisk Foundation Seniorforsker Award

CURRENT MAIN FUNDING

2023-26 Independent Research Fund Denmark/FNU project 1 (PI, 2.9 mio DKK)

2022-25 Novo Nordisk Foundation project grant in Basic Bioscience and Biomedicine (PI, 2.6 mio DKK)

SUPERVISION AND TEACHING

Supervised >30 MSc students, 13 PhD students, 8 postdocs and housed 2 visiting professors

PhD opponent/committee chairman (DK, Sweden, Germany, Finland, Switzerland, UK)

Current teaching: Protein Science and Enzyme Technology, course coordinator (2nd year mandatory course, Biochemistry), Advanced Cell Biology (graduate level)

Nominated for Teacher of the Year: 1) Faculty of Science, UCPH (2014), 2) The University of Copenhagen (2016)

Mentor in the BIO mentor program for Biochemistry students

REVIEWER AND GRANT EVALUATION ACTIVITIES

Grant evaluator, e.g., Biotechnology and Biological Sciences Research Council (U.K.), Boehringer Ingelheim Fonds, German Research Council (DFG), Wellcome Trust.

Ad hoc reviewer, e.g., ACS Chemical Biology, Biochemistry, Bioinformatics, EMBO Journal, EMBO Reports, The Journal of Biological Chemistry, Molecular Biology of the Cell, Molecular Cell, PNAS, Science, Structure, Traffic, Trends in Biochemical Sciences, Trends in Cell Biology.

ORAL PRESENTATIONS

~70 invited talks at national and international meetings and universities, such as:

- Gordon Research Conference on Venom Evolution, Function and Biomedical Applications, USA (2018 and 2022)
- FASEB meeting on Functional Disulfide Bonds in Health and Disease, USA (2018)
- ESF-EMBO Redox Conference, Barcelona (2015)
- 40th FEBS Conference, Berlin (2015)
- 8th Conference on Recombinant Protein Production, Mallorca (2015)
- Gordon Research Conference on Thiol-Based Redox Regulation and Signaling, Il Ciocco, Italy (2010).
- The annual meeting of the Japanese Biochemical Society, Kobe, Japan (2009)
- The 21st International Lectin Meeting, Shonan, Japan (2004)
- The Cold Spring Harbor Laboratory chaperone meeting, USA (2002)
- The annual meeting of The American Society for Cell Biology, USA (2001)

OUTREACH

2018 Wine & Science lecture, UCPH

2018 European Service Network/ RTD/DG research success stories: Sea snail venom promises new medicines

2014-Participation in several Culture Nights with a stand or talk on conotoxins and cone snails

BIBLIOMETRICS (as of June, 2023)

60 peer-reviewed papers (+4 book chapters and 1 popular scientific paper in Danish)

H-index: Web of Science: 35, Google Scholar: 39

Citations: Web of Science: ~7,000; Google scholar: ~10,700

Published papers as first author: 17; as senior author: 24

CURRENT KEY COLLABORATORS

- Prof. Baldomero Olivera, University of Utah
- Assoc. Prof. Helena Safavi-Hemami, University of Utah
- Lead Scientist, Dr. Rocio Finol-Urdaneta, University of Wollongong, Australia
- Senior Researcher Morten Nørholm, Technical University of Denmark
- Assoc. Prof. Eivind Baste Undheim, Oslo University, Norway, and University of Queensland, Australia
- Prof. Jens Preben Morth, Technical University of Denmark
- Prof. Kaare Teilum, BIO, UCPH
- Lecturer Jelena Baranovic, University of Edinburgh, Scotland
- Researcher Jennifer Zanet, University of Toulouse, France