

Ditlev Egeskov Brodersen, Professor

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Academic career

Professor of Structural Microbiology, Aarhus University, Denmark
Since 1 Jun 2021

Visiting Professor in biotechnology and life sciences, Università di Parma, Italy
1 Nov 2017-31 Oct 2020

Associate professor and independent group leader, Aarhus University, Denmark
Oct 2003-May 2021, tenured 1 Oct 2008

Postdoctoral research associate, MRC Laboratory of Molecular Biology, Cambridge, UK
Advisor: Dr. V. Ramakrishnan (Nobel Prize, Chemistry, 2009)
1 Sep 1999 – 30 Sep 2003

PhD (protein crystallography), Aarhus University, Denmark
Advisor: Dr. M. Kjeldgaard
13 Jan 2000

MSc (biochemistry), Aarhus University, Denmark
25 Sep 1997

Leave

Paternity leave (16 full weeks total during 2007-2015)
30 Mar 2007 – 28 Jun 2007 (40% leave, 5 weeks total), 4 Jan – 12 Feb 2010 (5.5 weeks), and 18 May – 3 July 2015 (80% leave, 5.5 weeks)

Recent invited scientific communications

Joint Microbiological Colloquium in Tübingen, Germany, October 2023, invited speaker
EMBL Symposium: New approaches and concepts in microbiology, Heidelberg, Germany, 2023, session chair
ISBUC Structural Seminar, University of Copenhagen, 2023, *invited speaker*
9th FEBS Special Meeting: ABC Proteins – from Genetic Disease to Multidrug Resistance, Innsbruck, Austria, 2023, *invited plenary speaker*
Danish Microbiological Society Annual Meeting, Copenhagen, 2021, *chair and invited speaker*
The TA Collective (worldwide, online seminar series), 2021, *invited speaker*
The HALOS webinar series, 2021, *invited speaker*
Department of Molecular Biology and Genetics, Aarhus University, 2021, *inaugural lecture*
University of Marburg, Germany, 2019, *invited speaker*
EMBO workshop on toxin-antitoxin systems in bacteria, Windsor, UK, 2019, *speaker*
University of Tartu, Estonia, 2018, *invited speaker*

European Workshop on (p)ppGpp and stringent response, Nelijärve, Estonia, 2018, *invited speaker*

Prizes and Leadership

Carlsberg Semper Ardens Accomplish, 10 mio DKK, 2023-2028.

Novo Nordisk Foundation Ascending Investigator, 10 mio DKK, 2018-2023.

ST Education Award, Aarhus University, 2017.

Danish National Research Foundation (Danmarks Grundforskningsfond), partner in the centre, "Centre for Bacterial Stress Response and Persistence", 2015-2019.

Centre director, AU Ideas/AUFF Pilot Centre, NANORIPES – Centre for Natural Non-Ribosomal Peptide Synthesis, 5 mio. DKK, 2012-2015.

Danish National Research Foundation (Danmarks Grundforskningsfond), partner in the centre, "mRNP biogenesis and metabolism", 2005-2015.

Awarded the 2002 Senior Research Grant (Seniorforskerstipendium) by the Novo Nordisk Foundation, 5 mio DKK, 2003-2008.

Human Frontier Science Program (HFSP) Career Development Award \$180.000, 2003-2006.

Human Frontier Science Program (HFSP) long term postdoctoral fellowship, 2000-2003.

EMBO long term postdoctoral fellow, 1999-2000.

Supervision of PhD students and post docs

16 PhD students (11 graduated) from 2003-2023. PhD graduates during the past 5 years: Søren K. Amstrup (Denmark), 2021, René L. Bærentsen (Denmark), 2021, Cemre Manav (Turkey), 2018.

13 post docs (3 of these are now independent PIs) from 2003-2023. Post docs during the past 5 years: Ragnhild Skjerning (Denmark), since 2020, Francesco Bisiak (Italy), 2019-2022, Anastasia Liuzzi (Italy), 2018-2022, Maja Holck Nielsen (Denmark), 2019, Cemre Manav (Turkey), 2018-2019, Meriem Senissar (France), 2015-2018, Nicholas Sofos (Denmark), 2016, Frederik Teilfeldt Hansen (Denmark), 2012-2015.

Scientific focus areas

Microbial survival mechanisms, bacterial toxin-antitoxin complexes, molecular mechanisms in CRISPR-Cas, large enzyme complexes, protein-RNA and protein-DNA complexes, hybrid structural biology (x-ray crystallography and electron microscopy)

Public outreach

"Bakteriernes hemmelige sprog afkodes", Viden & Forsknings, Kristeligt Dagblad, 16.1.2017.

Interview in "Videnskabens Verden" ("World of Science" radio programme), DR P1, 8.5.2010.

Boards and committees

Danish Microbiological Society, board member

Elise Smiths Skole, Aarhus, board member