

Curriculum vitae

Personal Data

Full name	Bjørn Olav Brandsdal
Nationality	Norwegian
Date of birth	08.03.1973
Researcher ID	J-7099-2015
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Education/Academic record

1997 Cand. Scient. Physical Chemistry, University of Tromsø
2001 Dr. Scient. Physical Chemistry, University of Tromsø

Research record

2002-2003, Post doctoral fellow, University of Tromsø and Uppsala University
2004-2005, Research Scientist, Norwegian Structural Biology Centre, University of Tromsø
2006-2007, Senior research scientist, Norwegian Structural Biology Centre, University of Tromsø
2008-2010, Associate professor of chemistry, University of Tromsø
Since 2010, Professor of Medicinal and Structural Chemistry, University of Tromsø
Since 2011, Principal Investigator, Centre for Theoretical and Computational Chemistry, a Norwegian Centre of Excellence
Since 2013, Co-director Centre for Theoretical and Computational Chemistry, a Norwegian Centre of Excellence

Expertise and knowledge

MD simulations – applications and development, QM/MM applications and development, enzymatic reactions, ligand binding, biophysical studies of ligand binding, isothermal titration calorimetry, molecular modeling, software development, free energy calculations, serine proteases, protein kinase inhibitors, enzyme design, ligand design.

Publication Record

46 publications in peer-reviewed journals, 1 book chapter, >1300 citations and h-index 20 (source Google Scholar), 6 popular papers, 2 stories in newspapers

Funding ID (Participated in or leader of the following recent research projects)

Free energy calculations in biological systems, leader, 2.5 MNOK
Design and synthesis of novel aspartic protease inhibitors, partner, 2.3 MNOK
Hit-to-lead development of novel antimicrobial and anticancer peptidomimetics, partner, 3.6 MNOK
BioStruct – National Graduate School in Structural Biology, partner, 19 MNOK
Design of enzymes with novel characteristics, leader, 11 MNOK
Funding raised for organizing conferences and workshops amounts to 2.5 MNOK

Major Collaborations

Johan Åqvist, development of free energy methods and thermodynamics of ligand binding and enzyme catalysis
Lynn Kamerlin, modelling of metal ions in biological systems and enzyme evolution
John-Sigurd Svendsen, antimicrobial peptides and protein kinases
Norwegian Structural Biology Centre, enzyme design

Other professional activities:

Co-director Centre for Theoretical and Computational Chemistry (2013-)
Group Leader Theoretical Chemistry, UoT, (2013-)
Leader of the Norwegian Chemical Society Northern Norway (2007-2008)
Member of the board of UNINETT Sigma (2008-2015)

Member of the board Department of Chemistry, UoT (2009-2013)

Member of the board of Norwegian Chemical Society, Computational chemistry division (2009-)

Member of the national steering group for advance user support in computational chemistry (2013-)

Member of the board of BioStruct – National Graduate School in Structural Biology

Reviewing assignments for 36 international journals

Evaluator full professor promotion Knut Teigen, University of Bergen

Grant reviewer for the Swiss Cancer League and the Icelandic Research Council

Supervised 10 master students, 10 Phd (3 current) and 2 post docs (1 current)

Leader of the undergraduate education committee in chemistry, UoT, (2014-2015)

Major teaching activities include general chemistry, biophysical aspect of protein folding (national course), biomolecular modeling (national course), structure guided drug design (national course)

Career breaks reason and duration

Paternity leave November 2008 – February 2009