

CURRICULUM VITAE – Bjørn Panyella Pedersen

PERSONAL DETAILS

Born 10. July 1979 in Horsens (Denmark), 2 children.

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CURRENT POSITION

Tenure-Track Assistant professor at Department of Molecular Biology and Genetics, Aarhus University.

ACADEMIC QUALIFICATIONS

2008, 10. Dec PhD in Molecular Biology, Aarhus University, Denmark

2006 MSc in Molecular Biology, Aarhus University, Denmark

2004 BSc in Biology, Aarhus University, Denmark

APPOINTMENTS

2015-present ERC Starting Grant - Principal Investigator, Aarhus University.

2014-present Sapere Aude: DFF - Research Leader, Aarhus University.

2014-2017 Aarhus Institute of Advanced Studies Fellow (CO-FUND/Marie Skłodowska-Curie fellowship)

2010-2014 Danish Cancer Society Postdoctoral Fellow, University of California - San Francisco.
PI: Prof. Robert M. Stroud

2008-2010 Carlsberg Foundation Postdoctoral Fellow, Aarhus University. PI: Prof. Poul Nissen

2004-2008 MSc/PhD student, Aarhus University. Advisor: Prof. Poul Nissen

2003-2004 Erasmus Student, University of Barcelona, Spain. Advisor: Prof. Rafael Franco

SCIENTIFIC PROFILE

Membrane protein structure and function. Low resolution crystallography/cryo-EM methodologies.

Current focus: Metabolite uptake, e.g. membrane transport of sugars, sterols, lipids, ions and vitamins.

METRICS AND PATENTS

Received DKK 25M (EUR 3.3M) in funding since the establishment of my independent research group in 2014.

21 peer-reviewed publications; 1,400+ citations, H-index: 11, i10-index: 13 (Web of Science).

10 publications in high-impact journals (IF >9): 6 *Nature*, 1 *Nat Commun*, 2 *PNAS*, 1 *Nat Rev Mol Cell Biol*.

14 PDB structure deposits: 6H7D, 5MRW, 5KSD, 5EQI, 5EQH, 5EQG, 4BYG, 4BEV, 4BEW, 4K1C, 4J05, 3RFU, 3KDP, 3B8E

2 patents: "Crystal structure of a plasma membrane proton pump" (PCT/DK2008/050305)
"Crystal structure of a Type IB P-Type ATPase" (PCT/DK2012/050026)

40+ trips to synchrotron beamlines: ALS, APS, BESSY, DLS, ESRF, PETRA, SLAC, SLS.

10+ successful applications (single and BAG) for cryo-EM/beamtime at ALS, APS, DLS, ESRF, MAX IV, PETRA, SLS.

AWARDS, FELLOWSHIPS & HONORS

2018 DFF-FNU Research Project 1 Grant (DKK 2.6M, 3 year funding)

2018 Novo Nordisk Foundation Project Grant in Metabolism (DKK 1.5M, 2 year funding)

2018 Toyota Fonden Instrument Grant (DKK 100K)

2017 Carlsberg Foundation Research Infrastructure grant (DKK 520K)

2016 Co-Investigator, Interreg grant lead by Assoc. Prof. Karin Lindkvist, Lund University (DKK 300K)

2015 ST Science Award from Faculty of Science and Technology, Aarhus University (DKK 10K)

2015-2017 DuPont Young Professor Grant (USD 50K; 2 year funding)

2015-present Member of Danish Young Academy under the Royal Danish Academy of Sciences and Letters

2015-present ERC Starting Grant (DKK 11.0M; 5 year funding)

2014-2017 Aarhus Institute of Advanced Studies CO-FUND grant (Marie Skłodowska-Curie fellowship) (DKK 2.0M; 3 year funding)

2014-present Sapere Aude: DFF - Research Leader (DKK 7.1M; 4 year funding)

2011-2014 Danish Cancer Society research grant (DKK 2.0M; 3 year funding)

2009 Cover of *European Journal of Physiology* issue 457

2009 Molecule of the Month, Oct. 2009 in the Protein Data Bank

2009-2011 Carlsberg Foundation research grant (DKK 1M; 2 year funding)

2008	Lundbeck Foundation talent prize (DKK 75K)
2007	Research selected as 'Structural Highlight of 2007' by <i>Nature</i>
2007	Cover of <i>Nature</i> issue 450
2004	OTICON PhD project grant (DKK 100K; PhD studies partial funding)

RESEARCH NETWORK

2015-ongoing	Reviewer for <i>Nature Publishing Group</i> and <i>Molecular Pharmaceutics</i> .
2015-ongoing	4 talks and 6 workshops on ERC grants, jointly with the Research Support Unit, AU.
2015-ongoing	Grant application mentor for 33 persons (Research Support Unit, AU, cf. teaching portfolio).
2015-ongoing	Committee responsible for selection of international speakers to MBG Keldgaard lectures.
2015-ongoing	Member of Danish Young Academy, part of an interdisciplinary network of ~40 members.
2018	Grant Evaluation for W.M. Keck Foundation, USA.
2018	Organizer of the two-day conference "CoLuAa XXVI - 2018", with ~80 participants.
2017, 2018	Selection committee for new members of The Danish Young Academy (~70 applications/year).
2017	Grant Evaluation for Cystinosis Foundation, Ireland.
2017	Grant Evaluation for National Science Center, Poland (NCN).
2015-2017	Industrial Collaboration with DuPont on sugar-selective dialysis membranes.
2015	Organizer of the two-day conference "CoLuAa XXIV - 2015", with ~80 participants.
2014-2017	AIAS Fellow, part of an international and interdisciplinary network of ~40 fellows.
2014	Guest Editor for <i>Biochim. Biophys. Acta General Subjects</i> , special issue on 'Structural Biochemistry and Biophysics of Membrane Proteins'.
2012-2014	Industrial Collaboration with BAYER Pharmaceuticals on cancer drugs developments.

17 of 21 peer-reviewed papers are in collaboration with other groups.

SUPERVISION OF PHD AND POSTDOCS (LAST FIVE YEARS)

Peter Paulsen (Denmark), postdoc since 2014, Rune Kidmose (Denmark), postdoc 2016-2018, Mikael Winkler (Denmark), PhD since 2016, Tania Custodio (Portugal), PhD since 2016, Casper Larsen (Denmark), postdoc since 2017, Laust Bavnhoj (Denmark), PhD since 2018, Kelly Frain (England), postdoc since 2019.

ADMINISTRATIVE & MANAGEMENT EXPERIENCE

present	Principal Investigator for group with 3 postdocs and 3 PhD students.
since 2014	Supervision of 12 students (/Msc/Bsc/ERASMUS), 3 PhD students and 4 postdocs.
since 2005	Teacher at 14 BSc, MSc courses at Aarhus University (further details in teaching portfolio).
2011-2014	Supervisor of two Research Assistants at the Membrane Protein Expression Center, UCSF.
2011-2014	Project management and reporting: Danish Cancer Society research grant.
2009-2011	Project management and reporting: Carlsberg research grant.

PRESENTATIONS AT CONFERENCES / WORKSHOPS

Invited speaker at 14 international conferences and 2 seminars. Abstract selected for presentation at 3 international conferences. Poster presented at 12 conferences. Teacher at 3 international workshops. Participated in 55 conferences/seminars/workshops. Full list available upon request.

MEDIA PRESENCE / PUBLIC DISSEMINATION (LAST FIVE YEARS)

2018	<i>Co-author</i> : "Unge akademikere: Politiske prioriteringer udsulter grundforskningen", Altinget (online newspaper), https://www.altinget.dk/forskning/artikel/det-unge-akademi-den-frie-forskning-sulter . Science policy comments / debate.
2018	<i>Interview</i> : "Kunstig intelligens knuser verdens førende forskere i biologi-konkurrence", dr.dk/viden and radio-interview (DR P1). Expert opinion.
2018	<i>Speaker</i> : "In doubt? Try! You will not regret it - personal stories and a handful of advices", PhD-networking seminar 2018, Organizer: Danish Young Academy. Academic career seminar.
2018	<i>Co-author</i> : "Opholdskrav i skatteaftale hæmmer dansk forskning", Politiken. 2. Mar. 2018, (national newspaper). Science policy comments / debate.
2017	<i>Speaker</i> : "The Protein Data Bank - Sharing and open access since 1971", Copenhagen, Schæffergården. Organizer: Danish Young Academy. General science dissemination.
2017	<i>Co-author</i> : "Visualising the bacterium <i>Streptococcus Pneumoniae</i> ". Chapter in the anthology "The aesthetics of scientific data representation", Routledge. General science dissemination.

- 2016 *Speaker:* "Stilbilleder fra biologiens kemiske verden", Biokonferencen 2016, Organizer: Foreningen af Danske Biologer. **General science dissemination.**
- 2015 *Author:* "Sweet-taking about sugar", AIAS annual Report 2014/2015. pp. 10-12 (public annual report), <http://www.e-pages.dk/aarhusuniversitet/1186>. **Own science dissemination.**
- 2015 *Co-author:* "Forskning på smalkost", BioZoom (magazine), http://www.biokemi.org/pdfs/2487/BZ4_2015_02.pdf?1453834154. **Science policy comments / debate.**
- 2015 *Co-author:* "Opinion: Forskning på smalkost", Berlinske Tidende (national newspaper), <https://www.b.dk/kommentarer/forskning-paa-smalkost>. **Science policy comments / debate.**