



JOHANNA HÖÖG

Associate professor
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BSc

2003 Cell and Molecular Biology, Oxford
Brookes University, UK

PhD

2007 EMBL and University of Heidelberg
joint degree, Germany

Postdoc

2008 – 2014 University of Oxford, UK

- 3 years in University of Colorado, Boulder, USA
- 2 years at MPI-CBG, Dresden, Germany

Assistant professor

2016 University of Gothenburg, Sweden

Habilitation

2018 University of Gothenburg, Sweden

Tenure

2019 University of Gothenburg, Sweden

SUMMARY

My research investigates cellular architecture using a multitude of advanced electron microscopy techniques, especially electron tomography. My scientific comfort zone is cellular biology but recently, I endeavored into *in situ* structural biology, where protein structures can be solved in its native cellular environment.

EXPERIENCE

Assistant and associate professor

2016 – current

Department of Chemistry and Molecular Biology
University of Gothenburg, Sweden

- Teaching 10-30%: university preparative courses to master/PhD level courses.
- Set-up a cryo-EM lab.
- Supervising four PhD students, co-supervising five PhD students, two postdocs.
- Acquired ~24 million sek in funding.
- Published 25 scientific papers.
- 6-month sabbatical at Harvard Medical School (2023/4).

Researcher

2014-2015

Krefting Research Institute

University of Gothenburg, Sweden

- Introduced advanced electron microscopy methods.
- Co-supervised a PhD student.
- Published 3 scientific papers.

Postdoc and Deputy Head of Electron Microscopy Facility

2014 (3 months bridging time)

Max-Planck Institute of Molecular Cell Biology and Genetics
Dresden, Germany

- (Cryo)-electron tomography and 3D-SEM sample preparation.

Postdoc and Research Fellow

2008-2014

Sir William Dunn School of Pathology

University of Oxford, Oxford, UK

- Acquired independent research funding (salary plus expenses).
- Trained a technical assistant.
- Published 7 scientific papers

PhD student

2003-2007

European Molecular Biology Laboratories (EMBL)

Heidelberg, Germany

- Reconstructed the first entire eukaryotic cell using electron tomography
- Published 4 scientific papers

GRANTS

2024-2028: VR Project grant	3 200 000 kr
2021-2023: Cancer Foundation	2 400 000 kr
2020-2023: VR Project grant	4 000 000 kr
2019-2020: Iris grant	70 000 kr
2018-2022: Knut and Alice Wallenberg (co-applicant, my share 9,5 Mkr)	44 500 000 kr
2016-2019: VR Young Investigator	3 200 000 kr
2009-2013: Sir Henry Wellcome Postdoct. Grant	~ 3 000 000 kr
2008-2009: EMBO postdoctoral grant	~ 480 000 kr

ASSIGNMENTS OF IMPORTANCE

2022	External expert reviewer for Swedish Research Council grant
2021	Reviewer for ERC consolidator grant
2021	Reviewer for Swedish Research Council grants (VR) in the panel for Biochemistry, Molecular Biology and Structural Biology
2020 - 2022	Diversity Ombudsman at the Department of Chemistry and Molecular Biology
2020 -	EMBL alumni association board (elected position)
2019 -	Departmental council member (elected position)
2016 – 2018	Steering committee member of the Interreg Board “ESS and MAXIV: Cross Boarder network & post graduate educational program”

ADDITIONAL TEACHING ACTIVITIES

- Committee member on five PhD or master student defenses.
- Instructor on 14 cryo-electron microscopy/tomography workshops held in Sweden, Germany, Austria, Brazil and USA
- Extensive outreach activities
 - 4 week internship at BBC
 - School visits to the lab
 - Visited schools to speak about being a scientist
 - Active contributor to the national scientific debate

EDITORIAL DUTIES

Nature Protocols, Nature Communications, FEBS letters, Molecules, Cell and Tissue Research, Respiratory Research, PNAS, Journal of Extracellular Vesicles, Essays in Biochemistry

TEACHING QUALIFICATIONS

HPE101 Teaching and learning in higher education (5 hek)
HPE102 Teaching and learning in Higher Education 2: Discipline Specific Pedagogic (5 hek)
HPE103 Teaching and Learning in Higher Education 3: Applied Analysis (5 hek)
HPE201 Supervision in Postgraduate Programmes (5 hek)

PRIZES

2022 Finalist (2nd place) Cozzarelli prize, awarded by the journal PNAS

2016 Poster prize at EMBO symposium (~250 posters)

2007 German Society for Electron Microscopy award for an outstanding PhD thesis

2006 European Fission Yeast meeting Poster prize (~150 posters)

2002 Society of General Microbiology's Undergraduate Prize

1998 Carl von Linné scholarship

MANAGEMENT

2018-2019 REAL Initiative - one-year management training for future research leaders at GU

2012 EMBO lab management course, Leimen, Germany

LANGUAGES

Swedish – mother tongue

English – fluent spoken and written

German – fluent spoken and intermediate written

French – basic spoken and written

SCIENTIFIC PRESENTATIONS

Total 59 presentations

3 as plenary speaker

41 as invited speaker

70% international