

Short CV: Department of Chemistry and Molecular Biology, University of Gothenburg

Name: **Kristina Hedfalk** Year of Birth: **1969**

Higher education qualification

1995 **Bachelor of Science in Chemistry**, GU, Sweden

Degree of Doctor

2002 **PhD**, CTH, Sweden

Postdoctoral positions

2006 Prof R. Neutze, GU, Sweden.

2006 Prof S. Hohmann, GU, Sweden

2003-2005 Prof L. Gustafsson, CTH, Sweden

Qualifications

2007-2015 **Researcher**, GU, Sweden

2010 **Associate Professor in Biochemistry**, GU, Sweden

Present position

2015 **Senior lecturer in Biochemistry**, GU, Sweden.

Supervision

PhD:: 2 (main), **15** (co)

POSTDOCTORAL MENTORSHIP: 7

UNDERGRADUATE THESIS: 16 projects (15-60 hec)

Opponent commissions

PHD THESIS, EXTERNAL EXAMINER: 1

LICENTIATE THESIS, OPPONENT: 1

PHD THESIS, EVALUATION COMMITTEE: 15

Administrative commissions

Deputy head of Department, KMB, GU, responsible for the undergraduate education (425 students per year) (120701-).

Member of the executive committee, KMB, GU (120101-)

Award

Visiting Scholarship at Aston University, Birmingham, United Kingdom: £12500 (2005) and £4000 (2008)

Referee

GRANTS: MOE AcRF Tier 1 research grant application, Nanyang, Singapore (2014); The Portuguese Foundation for Science and Technology (2012)

MANUSCRIPTS: 28 times in 22 journals

Organiser of scientific meetings

SBNet, Tällberg, Sweden (2010)

Grants from Research councils

2015-2017	KAW, Co-applicant	26,5 MSEK
2013-2017	VR M, Co-applicant	6,9 MSEK
2013-2014	KAW, Co-applicant	17,6 MSEK
2011-2015	VR, Co-applicant	10,0 MSEK
2010-2012	VR M, Co-applicant	2,4 MSEK
2007-2009	VR M, Co-applicant	2,4 MSEK

EU Foundations and other grants

2017-2018	Interreg, Main applicant	169 KSEK
2016-2017	Interreg, Main applicant	169 KSEK
2013	O. E. och Edla Johanssons stiftelse, Main applicant	100 KSEK
2010-2012	Carnegiestiftelsen, Main applicant	450 KSEK

Citation Metrics

Total publications **38**

Total citations **2221**

h-index **24**

Google Scholar page http://scholar.google.se/citations?user=_gE3NHsAAAAJ&hl=sv

Short statement of research activity

My research group focuses on producing eukaryotic membrane proteins and their complexes, applying yeast as host, aiming for functional and structural evaluation in order to elucidate molecular mechanisms of biological functions. The main target of interest has been aquaporins, essential macromolecules for the water balance in all life forms. The key questions concern their regulation and interaction with other molecules in the cell as well as their function in order to understand disease states with the intention to influence and improve health.

Five high light publications last five years

Isaksson S, Watkins EB, Browning KL, Kjellerup Lind T, Cárdenas M, **Hedfalk K**, Höök F, Andersson M. **Protein-Containing Lipid Bilayers Intercalated with Size-Matched Mesoporous Silica Thin Films.** *Nano Lett.* Jan 11;17(1):476-485, 2017.

Sjöhamn J, Båth P, Neutze R, **Hedfalk K**. **Applying bimolecular fluorescence complementation to screen and purify aquaporin protein:protein complexes.** *Protein Sci.* Dec;25(12):2196-2208, 2016.

Pirazzi C, Valenti L, Motta BM, Pingitore P, **Hedfalk K**, Mancina RM, Burza MA, Indiveri C, Ferro Y, Montalcini T, Maglio C, Dongiovanni P, Fargion S, Rametta R, Pujia A, Andersson L, Ghosal S, Levin M, Wiklund O, Iacovino M, Borén J, Romeo S. **PNPLA3 has retinyl-palmitate lipase activity in human hepatic stellate cells.** *Hum Mol Genet.* Mar 30, 2014.

Frick A, Eriksson UK, de Mattia F, Oberg F, **Hedfalk K**, Neutze R, de Grip WJ, Deen PM, Törnroth-Horsefield S. **X-ray structure of human aquaporin 2 and its implications for nephrogenic diabetes insipidus and trafficking.** *Proc Natl Acad Sci U S A.* Apr 29;111(17):6305-10. 2014.

Hedfalk K. **Further advances in the production of membrane proteins in *Pichia pastoris*.** *Bioengineered.* Mar 18;4(6), 2013.