

CV - Anders Blomberg

Male 19560224-7198; Married to Lena- two kids (Jesper born 1988 and Rasmus born 1990)

Department of Marine Sciences

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HIGHER EDUCATION: Bachelor in Biology with studies at Univ. of Uppsala and Univ. of Gothenburg; completed 1983, spent half a year at Univ. of Brighton (1980) with advanced courses in chemistry.

DOCTORAL GRADUATION: Microbiology, Göteborg University (1988-05-27),

Title: "Osmoregulation and osmotolerance in yeast"

LONGER INTERNATIONAL VISITS TO OTHER LABORATORIES:

- Wollongong University, Australia (1983 – 1984; one year), Laboratory of Prof. Duncan Brown; during Phd
- University of Toronto, Canada (2014; two months), sabbatical

DOCENT LEVEL: 1996, Univ. of Gothenburg

CURRENT POSITION: 2002 - Professor Functional Genomics, Dept. of Marine Sciences, Univ. of Gothenburg

FIELD OF EXPERTIES AND MAJOR SCIENTIFIC CONTRIBUTIONS: Blomberg was during 2001 - 2008 director of the national Research School in Genomics and Bioinformatics. He has published 82 primary publications in international journals and 14 reviews/book chapters. Blomberg currently runs a research group of 10 members. He has supervised 10 PhD students (currently three) and 15 post-docs (currently seven).

Blomberg has a long-standing interest in mechanisms involved in stress responses, studies he initiated on the marine yeast *Debaryomyces hansenii*. In these studies he has applied various genome-wide technologies like proteomics and phenomics. This has led to several scientific achievements relating to osmoregulation, e.g. glycerol production/accumulation, the role of N-terminal acetylations, dihydroxyacetone toxicity and signalling via protein tyrosine phosphatases. He has also developed methodologies for large-scale phenotypic profiling of yeasts in order to characterize the genotype-phenotype map, where data can be accessed on his phenomics-database PROPHECY. He has been involved in the genome sequencing of a larger set of individuals from various domesticated and natural populations of the yeast *Saccharomyces cerevisiae*, as well as the development of recombinant yeast strain collections. More recently he has also engaged in functional genomics studies of the barnacle *Balanus improvisus*, including cDNA as well as genome sequencing. His studies have resulted in cloning and functional characterization of genes encoding five octopamine receptors, several pheromones, three paralogs of Na/K ATPase and eight paralogs of aquaporins. In addition, he leads eight genome sequencing projects on marine organisms including a population genomics and phenomics study on the marine fungi/yeast *D. hansenii*.

8 SUPERVISION; PhD STUDENTS GRADUATED IN BLOMBERG'S GROUP

Main supervisor (total 10):

Peter Eriksson 1996 "Identification of the two *GPD* isogenes of *Saccharomyces cerevisiae* and characterization of their response to hyper-osmotic stress"

Joakim Norbeck 1996 "Protein expression of yeast during growth under osmotic stress"

Homan Alipor 2002 "Molecular mechanisms involved in the salinity control of the *GPD1* promoter"

Jonas Warringer 2003 "Genetic robustness during environmental stress"

Mikael Molin 2004 "Mechanisms of dihydroxyacetone detoxification in yeast"

Robert Svensson/Caesar 2005 "The physiological role of N-terminal acetylations"

Elke Ericson 2006 "High-resolution phenomics decodes the physiological stress response"

Luciano Fernandez-Ricaud 2007 "Analysis, integration and presentation of yeast phenomics data"

Jonathan Esguerra 2008 "High-resolution phenotypic profiling of a eukaryotic ribosome"

Lars-Göran Ottosson 2012 "Cellular Resilience Towards Environmental and Gene Expression Perturbations"

Co-supervisor (total 6): (year finished, main supervisor, department/university): *Annika Nilsson* (2000, Lena Gustafsson, CMB/GU); *Hadi Valadi* (2003, Lena Gustafsson, Biotechnology/Chalmers); *John Gustafsson* (2006, Mats Rudemo, Statsitics/Chalmers); *Katarina Logg* (2011, Mikael Käll, Physics/Chalmers); *Kristoffer Bodvard* (2013; Mikeal Käll, Physics/Chalmers); *Anna-Lisa Wrangle* (2014, Carl Andre, BIOENV/GU).

SUPERVISION: CURRENT PhD STUDENTS

Susanna Falkbring, started 2003-04-01 (barnacle receptors: ended her studies 2008; got a job in Belgium; still discussing to finish)

Martin Zachrisson, started 2010-12-15 (yeast phenomics: more than half-way; dissertation fall 2016)

Anna Abramova, started 2014-03-05 (barnacle functional genomics: financed by EU SEAFRONT project)

SUPERVISION: FORMER AND PRESENT POST-DOCS IN THE LABORATORY

Joakim Norbeck (1997 – 1999),

Amir Hashemi (2002 – 2004),

Homan Alipour (2002),

Beidong Liu (2004 - 2008),

Joan Palmfeldt (2004 - 2006),

Jonas Warringer (2004 -),

Piotr Sliwa (2007 - 2009),

Olga Kourtchenko (2009 - 2012),

Annabelle Forsmark (2009 - 2011),

Ulrika Lind (2007 – present),

Magnus Alm-Rosenblad (2007 – present),

Luciano Fernandez-Ricaud (2008 – present),

Mats Töpel (2013 – present),

Sylvie Tesson (2013 – present)

Tomas Larsson (2014 - present)

Valeria Wallace (2015 – present)

PROGRAMME DIRECTOR NATIONAL RESEARCH SCHOOL

Programme director of National Research School in Genomics and Bioinformatics from 2001 to 2008.

OPPONENT DISSERTATIONS

Katleen Lemaire, Univ. of Leuven, Belgien (2000),

Karin Träff, Lund University, Sweden (2002),

Jeanette Brejning, The Royal Veterinary and Agricultural Univ., Denmark (2002),

Frode Berven, Bergen University, Norway (2005),

Odd Andre Karlsson, Bergen University, Norway (2005),

Jenny Béve, Karolinska Institutet, Sweden (2006),

Niklas Nordberg, Uppsala University, Sweden (2012),

Kristine Hole, Bergen University, Norway (2013)

RERERE FOR INTERNATIONAL JOURNALS

Regularly acting referee for manuscripts from the following journals: Nature Biotechnology, Microbiology, YEAST, Biochimica et Biophysica Acta, Food Technology and Biotechnology, Electrophoresis, Molecular Microbiology, Molecular Systems Biology, Proteomics, Proc. National Academy of Science USA, Molecular Systems Biology, FEMS Yeast Research, Genome Biology, Molecular Biology of the Cell, Current Genetics, PLoS Genetics, PLoS One

MEMBER OF THE EDITORIAL BOARD

Editorial board for FEMS Yeast Research (2007 -)

Editorial board of Microbial Cell (2013 -)

COMMISSION OF TRUST - INTERNATIONAL

- Member of the scientific advisory board for the centralized yeast database *Saccharomyces* Genome Database (SGD) at Stanford University, USA (2006 -)

- Evaluation of Netherland Genome Initiative (April, 2007)

- Chairperson for evaluation by European Science Foundation for ESA programme (Dec. 2009)

- Member of the organisation committee of the international Yeast Genetics meeting (2008- 2013)

- Evaluation board for Swedish Research Council (2011 and 2012)

- Evaluation by European Science Foundation (2011 – 2012)

- Chairperson for the Evaluation of higher Biology Education in Sweden (HSV/UKÄ) (2012)