

Hannes Peter

## CURRICULUM VITAE

### PERSONAL DETAILS

Name: Hannes Markus PETER  
Date of Birth: 8 March, 1982  
Nationality: Austrian  
Address: Mariahilfpark 2/710, 6020 Innsbruck, Austria  
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### EDUCATION

2012 - Postdoctoral fellow in Ruben Sommaruga's lab at the Department of Limnology, University of Innsbruck

2012 Postdoctoral fellow in Tom Battin's group at the Department of Limnology, University of Vienna

2007 – 2011 PhD Thesis: *Diversity and Ecosystem Functioning – Redundancy and Resilience in Freshwater Bacterial Communities* (Department of Ecology and Genetics/Limnology, Uppsala University, Sweden; main advisor: Lars Tranvik; co-supervisor: Eva Lindström, Silke Langenheder, thesis opponent: Nelson G. Hairston Jr.

2008 – 2011 Member of the EBC graduate school on Genomes and Phenotypes, Uppsala University, Sweden

2006 – 2007 Master Thesis: *Bacterial composition in the gut of cladoceran and copepod species and their ability to transform MAAs*. (University of Innsbruck; advisor: Ruben Sommaruga)

2004 – 2007 MSc. student of Ecology (focus Limnology), University of Innsbruck

2000 – 2004 BSc. student in Biology, University of Innsbruck

### LANGUAGE SKILLS

German (mother tongue)  
English (fluent)  
Swedish (basic)  
French (basic)

## **PUBLICATIONS**

Baho D, Peter H and Tranvik LJ Resistance and resilience of microbial communities – temporal and spatial insurance against perturbations (*in press in Environmental Microbiology*) (IF: 5.537)

Weyhenmeyer GA, Peter H and Willén E Abrupt shifts in phytoplankton along a latitudinal gradient - new insights into biodiversity and ecosystem functioning relationships. (*in press in a special issue on regime shifts in Freshwater Biology*) (IF: 3.082)

Besemer K, Peter H, Logue JB, Langenheder S, Lindström ES, Tranvik LJ and Battin TJ Massive tag pyrosequencing of the DNA and RNA unravels the assembly of complex biofilm communities in streams. (*available online The ISME Journal*) (IF: 6.153)

Peter H, Ylla I, Gudasz C, Romani AM, Sabater S and Tranvik LJ (2011) Multifunctionality in microbial biofilms is constrained by diversity. PLoS ONE 6(8) e23225. (IF: 4.411)

Logue JB, Mouquet N, Peter H, Hillebrand H et al. (2011) Empirical approaches to metacommunities – a review and comparison to theory. Trends in Ecology & Evolution 9 482-491 (IF: 14.448)

Matthews B, Narwani A, Hausch S, Peter H, Yamamichi M, Sullam K, Nonaka E, Hanley T, Bird K, Thomas M and Turner C (2011) Toward an integration of evolutionary biology and ecosystem science. Ecology Letters 14 690–701 (IF: 15.253)

Farkas J, Peter H, Christian P, Urrea J, Hassellöv M, Tuoriniemi J, Gustafsson S, Olsson E, Hylland K and Thomas K (2011) Characterization of the effluent from a nanosilver producing washing machine. Environment International 37 1057-1062 (IF: 4.691)

Peter H, Beier S, Bertilsson S, Langenheder S, Lindström E and Tranvik LJ (2010) Function specific response to a depletion of microbial diversity. The ISME Journal 5 351-361 (IF: 6.153)

Peter H and Sommaruga R (2008) An evaluation of methods to study the gut bacterial community composition of freshwater zooplankton species. Journal of Plankton Research 30 997-1006 (IF: 1.749)

Tripp CH, Haid B, Flacher V, Sixt M, Peter H, Farkas J, Gschwentner R, Sorokin L, Romani N and Stoitzner P (2008) The lymph vessel network in mouse skin visualised with antibodies against the hyaluronan receptor LYVE-1. Immunobiology 213 715-728 (IF: 4.114)

### **Submitted work:**

Peter H and Tranvik LJ Fragility of aquatic microbial communities exposed to perturbation

Shade A\*, Peter H\*, Allison S, Baho D, Berga M, Bürgman H, Handelsman J, Huber D, Langenheder S, Lennon J, Martiny J, Matulich K and Schmidt T Resilience of Complex Microbial Communities: Can We Predict Responses to Perturbation?

\* authors contribute equally

## SCIENTIFIC PRESENTATIONS

### Oral Presentations

Peter H and Tranvik LJ Fragility of aquatic microbial communities towards pulse perturbations (2011). SAME Conference, Rostock, Germany

Peter H, Ylla I, Gudas C, Romaní AM, Sabater S and Tranvik LJ Multifunctionality in microbial biofilms is constrained by diversity (2010). ISME Conference, Seattle, USA

### Poster Presentations

Hannes Peter, Sara Beier, Stefan Bertilsson, Eva Lindström, Silke Langenheder and Lars Tranvik. *Microbial diversity and ecosystem functioning: Idiosyncratic response*. (2009) ASLO Conference, Nice, France, *Outstanding Student Presentation Award*

Hannes Peter, Eva Lindström, Silke Langenheder and Lars Tranvik. *Microbial diversity and ecosystem functioning: Redundancy and resilience in communities degrading aquatic organic matter*. 2008. Microbial Community Dynamics Workshop, Campus Roslagen, Norrtälje, Sweden

## GRANTS

- 2011 EBC graduate school on Genomes and Phenotypes: 17.000 SEK travel grant
- 2010 Malméns Stiftelse. 125.000 SEK. Principal Investigator
- EBC graduate school on Genomes and Phenotypes: 14.000 SEK travel grant
- 2009 Malméns Stiftelse. 100.000 SEK. Principal Investigator
- Helge Ax:son Johnsson Stiftelse. 40.000 SEK. Principal Investigator
- EBC graduate school on Genomes and Phenotypes: 10.000 SEK travel grant
- 2008 Malméns Stiftelse. 110.000 SEK. Principal Investigator

## AWARDS

Ruttner Prize from SIL Austria for the publication: *Peter H, Beier S, Bertilsson S, Langenheder S, Lindström E and Tranvik LJ (2010) Function specific response to a depletion of microbial diversity. The ISME Journal 5 351-361*

Ruttner Prize from SIL Austria for the publication: *An evaluation of methods to study the gut bacterial community composition of freshwater zooplankton, Journal of Plankton Research, 30(9) 997-1006*

## TEACHING EXPERIENCE

- Limnology II, Uppsala University (2008-2011)
- Microbial Diversity, Uppsala University (2009-2011)
- Ekologi och Populationsgenetik, Uppsala University (2008-2011)
- Aquatic Ecology, Uppsala University (2008, 2009)
- Aquatic Photobiology, University of Innsbruck (2006)

Aquatic Microbiology, practical course, University of Innsbruck (2006)  
Laboratory praxis, University of Innsbruck (2006)  
Experimental Design and Statistics, University of Innsbruck (2005)  
**International Teacher Training Course**, Uppsala University (2008)

### **SUPERVISION**

- 2010 Didier Baho, MSc. Project: The importance of spatial and temporal refuges on resistance and resilience of microbial communities.  
2009 Dominik Kornthaler, MSc. Project: The effect of perturbation on microbial communities  
2008 Diana Pillay, Research Training: Fluorometric quantification of lake water bacterial cultures using NanoDrop

### **EXTRACURRICULAR ACTIVITIES**

#### **Training courses**

- 2009 Summer School on the Interaction between ecological and evolutionary processes in aquatic ecosystems, 5 – 18 July, EAWAG, Luzern  
2009 Multivariate statistics for ecologists, SLU, Uppsala, Sweden  
2009 Microbial Diversity in time and space – the metacommunity concept, Uppsala University, Sweden  
2007 Course on the Identification of Fish, 28 – 30 March, Dr. Rudolf Müller, Dr. Armin Peter, Luzern, Switzerland  
2006 International Course for the Identification of Microsaprobia (bacteria, flagellates, ciliates) used for Water Quality Assessment, 18 – 29 September, Prof. W. Foissner, Prof. H. Berger, Salzburg, Austria  
2006 International Course on Whole Cell Identification of Prokaryotes & Eukaryotes, 13 – 17 March, Prof. N. Lee, Dr. J. Fried, Munich, Germany  
2005 Course on Electrofishing, 11 - 13 May, Dr. A. Jagsch, Scharfling, Austria

#### **Research stays**

- 2011 Department of Limnology, University of Vienna, Austria, March-June  
2005 Alfred-Wegener Institute for Polar and Marine Science, Wadden Sea Station Sylt, Germany 12 – 30 September  
*Biomass determination of the components of a mussel bank in the Wadden Sea*  
2004 Institute for Lake Research, Langenargen, Germany 19 September – 08 August  
*Monitoring of freshwater snails and their infection with trematode cercaria in Lake Constance*

#### **Other relevant activities**

- 2004 – 2007 Field assistance in project Trout ExamInvest, University of Innsbruck  
*Genotyping of indigenous trout populations in North and South Tyrol to establish broodstocks of autochthonous strains for stocking in selected environments*  
2001 work for the environmental institute of the provincial government of Vorarlberg, Austria, 30 July – 19 August, *Monitoring of natural barriers for fish in small alpine rivers in Vorarlberg*  
2000 work at Inatura (Natural History Museum), Dornbirn, Austria  
*inventory of the museum items, guiding tours*