

Georg Steinert  
Certified biologist and PhD student

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### Studies

02|2013 - 05|2013 Guest research at the 'Centre for Microbial Innovation' University of Auckland, New Zealand  
10|2012 - now PhD student at Graduate School 'Science and Technology', 'Environmental Sciences and Biodiversity', University of Oldenburg  
10|2011 - now PhD student at the Environmental Biochemistry Working Group, Institute of Chemistry and Biology of the Marine Environment (ICBM)  
05|2010 Diploma degree in Biology  
Diploma thesis: 'Molecular study of the blue mussel (*Mytilus edulis*) within the Wadden Sea of Lower Saxony'  
10|2002 - 05|2010 Biology  
Carl von Ossietzky University of Oldenburg  
10|2000 - 06|2004 Physics  
Carl von Ossietzky University of Oldenburg

### Work experience

11|2011 - now Research associate at the Environmental Biochemistry Working Group, Institute of the Chemistry and Biology of the Marine Environment (ICBM), University of Oldenburg  
10|2010 - 10|2011 Research associate at the Planktology Working Group, Institute of Chemistry and Biology of the Marine Environment (ICBM), University of Oldenburg  
06|2010 - 10|2011 Scientific assistant during the ICBM science exhibitions 'Understanding the Coasts' (2010) and 'Showcase Marine Sciences' (2011) & IdeenExpo Hannover 2011

### Academic affiliations

Environmental Biochemistry Working Group, Institute of Chemistry and Biology of the Marine Environment (ICBM), 11|2011 - now  
Planktology Working Group, Institute for Chemistry and Biology of the Marine Environment (ICBM), University of Oldenburg, 10|2010 - 10|2011  
Systematics and Evolutionary Biology Working Group, Department of Biology and Environmental Sciences (IBU), University of Oldenburg, 9|2008 - 5|2010

## Fellowships and grants

- Conference fellowship for the '2<sup>nd</sup> International Symposium on Sponge Microbiology 2014', German Academic Exchange Service DAAD
- Funding for the organization of the 'Computational Molecular Analysis Summer School 2014' - Graduate School 'Science and Technology', University of Oldenburg
- Funding for the organization of the 'Computational Molecular Analysis Summer School 2014' - International Relationship Office (IRO), University of Oldenburg
- Conference fellowship for the '9<sup>th</sup> World Sponge Conference 2013', German Academic Exchange Service DAAD
- Conference fellowship for the '9<sup>th</sup> World Sponge Conference 2013', Universitätsgesellschaft Oldenburg e.V. (UGO)
- Short term fellowship 'Microbial Symbiosis and Diversity in Marine Sponges', New Zealand from 02/2013 to 06/2013, Centre for Microbial Innovation, University of Auckland - German Academic Exchange Service DAAD
- Travel grant 2/2012 for the ISME14 conference in Copenhagen, Graduate school 'Science and Technology', University of Oldenburg
- Project funding of my diploma thesis 'Molecular study of the the blue mussel (*Mytilus edulis*) within the Wadden Sea of Lower Saxony' 2010 - EWE Foundation

## Attended courses, workshops, summer schools

- Earth Microbiome Project, Bioinformatics Workshop at the Institute of Marine and Environmental Technology (IMET), Baltimore, 2014
- E.O. Wilson Symposium on Biodiversity at CvO University of Oldenburg, 2014
- 'Meta-analysis mini-workshop' at the ICBM Terramare, 2014
- 'Understanding adaptation to habitat fragmentation and climate - from genes to populations' Mini-Symposium at the University of Helsinki, 2014
- Science Software Day - Max Planck Institute for Marine Microbiology (MPI), Bremen, 2013
- 'Scientific Writing' - Graduiertenschule 'Science and Technology', Universität Oldenburg, 2012
- Computational Molecular Evolution - European Molecular Biology Organization (EMBO) Practical Course Institute of Marine Biology and Genetics (IMBG) - Hellenic Center for Marine Research (HCMR), Crete, 2012
- DZG Workshop on Next Generation Sequencing and Transcriptomics - Göttingen Center for Molecular Biosciences (GZMB), Georg-August-University Göttingen, 2011
- The Second White Sea Molecular Zoology Summer School - School of Molecular Zoology, White Sea Biological Station (Russia), Moscow State University, 2010
- Laboratory cooperation with the Ruhr-University of Bochum during my Diploma thesis (Dr. T. Huelsken), 2009
- 'Species in Space and Time - Biogeography' Workshop, Johannes Gutenberg University of Mainz, 2009

### Teaching experience

Organization of the 'Computational Molecular Analysis Summer School 2014' - Graduate School 'Science and Technology' (OLTECH), University of Oldenburg (2014)

Tutor 'Concepts of Marine Ecology', ICBM (2014)

Tutor 'Benthic Ecology', ICBM (2013)

Tutor 'Chemical Ecology', ICBM (2013)

Scientific assistant during the ICBM science exhibitions 'Understanding the Coasts' (2010) and 'Showcase Marine Sciences' (2011) & IdeenExpo Hannover (2011)

Tutor 'Communicating Biology', University of Oldenburg (2005)

### Field work experience

FS Sonne Cruise P7 - IFM-Geomar/ICBM, Kiel, 2014

ASSEMBLE (Association of European Marine Biological Laboratories) research project at the Sven Lovén Centre for Marine Sciences - Tjärnö (Sweden), 2012

Marine Biology Excursion – Giglio (Mediterranean Sea), 2011

Sampling at various *Mytilus edulis* mussel beds in the littoral zone of the Lower Saxonian Wadden Sea (Germany) during my diploma thesis, 2009

Field and sampling trips with the research vessel 'FS Senckenberg' (Senckenberg Institute, Wilhelmshaven) during my diploma thesis, 2009

Planktonic sampling assistant on the research vessel 'Navicula' (ICBM), 2008 – 2009

### Computer literacy

Bioinformatics: ARB, Arlequin, MEGA, Mothur, MrBayes, PAUP\* 4.0, Qiime, RAxML, SILVAngs, Splitstree, TCS

Coding: Python, Processing, R\*

Statistics: PAST - PAleontological Statistics, R\*

### Memberships

International Society for Microbial Ecology (ISME)

Gesellschaft für Biologische Systematik (GfBS) (Society of Biological Taxonomy)

Young Taxonomists (GfBS associated)

## Publications

- Steinert G**, Rohde S, Schupp PJ. 'Host specificity and spatial variability of microbial indicator taxa and abundant archaeal oligotypes in temperate sponges' (manuscript in preparation)
- Steinert G**, Deines P, Simister R, Taylor MW, Hoggart M, Schupp PJ. 'Depth-dependent microbial community structure in three Guam reef sponges' (manuscript in preparation)
- Steinert G**, Taylor MW, Schupp PJ. (2015) 'Diversity of Actinobacteria associated with the marine ascidian *Eudistoma toaalensis*' *Marine Biotechnology*, DOI: 10.1007/s10126-015-9622-3
- Steinert G**, Whitfield S, Taylor MW, Thoms C, Schupp PJ. (2014) 'Application of Diffusion Growth Chambers for the Cultivation of Marine Sponge-Associated Bacteria', *Marine Biotechnology*, DOI: 10.1007/s10126-0149575-y
- Hillebrand H, **Steinert G**, Boersma M, Mahl Zahn A, Meunier C, Plum C, Ptacnik R. (2013) 'Phytoplankton growth and N:P stoichiometry'. *Limnology and Oceanography* 58(6): 2076 - 2088, DOI: 10.4319/lo.2013.58.6.2076
- Steinert G**, Huelsken T, Gerlach G, Bininda-Emonds ORP (2012). 'Species status and population structure of mussels (Mollusca: Bivalvia: *Mytilus* spp.) in the Wadden Sea of Lower Saxony (Germany)'. *Organisms, Diversity and Evolution* 12(4): 387 - 402, DOI: 10.1007/s13127-012-0075-5

## Conference proceedings

- Talk at the 2<sup>nd</sup> International Symposium on Sponge Microbiology in Baltimore 2014. **Steinert G**, Deines P, Simister R, Taylor MW, Hoggart M, Schupp PJ. 'Sponge-associated microbial communities along a spatial gradient'
- Poster at the 2<sup>nd</sup> International Symposium on Sponge Microbiology in Baltimore 2014. **Steinert G**, Deines P, Simister R, Taylor MW, Hoggart M, Schupp PJ. 'Are microbial community structures in three Guam reef sponges depth-independent?'
- Talk at the 9<sup>th</sup> World Sponge Conference in Fremantle 2013. **Steinert G**, Whitfield S, Taylor MW, Schupp PJ. 'Phylogenetic analysis of bacteria isolated from sponges using a diffusion-growth-chamber'
- Poster at the Youmares 4.0 in Oldenburg 2013. **Steinert G**, Whitfield S, Michael W. Taylor MW, Schupp PJ. 'Cultivation of novel sponge-associated bacteria by using the diffusion-growth-chamber approach'
- Poster at the HBV Meeting in Oxford 2012, 119. DGIM Wiesbaden 2013 & GASL 2103 Hannover. Zacher B, Taranta A, Wiegand S, **Steinert G**, Deterding K, Manns MP, Wedemeyer H, Cornberg M, Wursthorn K. 'Early on treatment detection of nucleos(t)ide analogue resistant minor variants of Hepatitis B Virus (HBV) with ultra deep pyrosequencing (UDPS) in patients with chronic hepatitis B (CHB) infection.'
- Poster at the ISME14 - The Power Of The Small Copenhagen 2012. **Steinert G**, Schupp PJ. 'Distribution and phylogeny of the Sponge-Symbiont '*Candidatus* Entotheonella palauensis' in selected sponges from Micronesia'
- Talk at the 15th Evolutionary Biology Meeting at Marseilles 2011. **Steinert G**, Huelsken T, Bininda-Emonds ORP. 'Molecular phylogeny of *Mytilus edulis*: Dispersal and diversity of the blue mussel at the coast of Germany'
- Poster at the DZG Workshop on Next Generation Sequencing and Transcriptomics Göttingen 2011. **Steinert G**, Huelsken T, Bininda-Emonds ORP. 'Population structure and phylogeny of the blue mussel (*M. edulis*) of the Wadden Sea of Lower Saxony (Germany)'
- Talk at the BioSystematics Berlin 2011. **Steinert G**, Huelsken T, Bininda-Emonds ORP. 'Population structure and phylogeny of the Blue Mussel (*Mytilus edulis*) of the Wadden Sea of Lower Saxony (Germany)'