

Curriculum Vitae

Name	Michael Zeder
Title	Dr. sc. nat.
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Scientific Education:

08.2010 – present	Postdoc, Max Planck Institute for Marine Microbiology, Bremen, Germany Department of Molecular Ecology, Prof. Dr. R. Amann
02.2010 – 07.2010	Postdoc, University of Zürich, Switzerland Department of Limnology, Prof. Dr. J. Pernthaler
09.2009 – 12.2009	Postdoc, Helmholtz Centre for Environmental Research, Leipzig, Germany Department of Environmental Microbiology, Dr. A. Wendeberg
04.2006 – 09.2009	Ph.D., University of Zürich Institute of Plant Biology, Department of Limnology, Switzerland MIM Ph.D. Program (Microbiology and Immunology, UZH and ETHZ) Thesis: "Development of methods and technology for automated high-throughput multi-parameter analysis of single cells by fluorescence microscopy" Supervisor: Prof. Dr. J. Pernthaler The thesis was awarded with the "Swiss Hydrobiology-Limnology Award 2010".
11.2005 – 04.2006	Internship with Roche Diagnostics Microtechnology Center, Rotkreuz, Switzerland
2005	Diploma in Microbiology (ETHZ) Thesis: "Cyclic peptides in cyanobacteria and their effects on apoptosis enzymes of eukaryotes" Supervisors: Prof. em. Dr. F. Jüttner and Dr. J. Blom University of Zürich, Institute of Plant Biology, Department of Limnology
2000 – 2005	Studies in Biology Swiss Federal Institute of Technology (ETHZ)

List of Publications:

Zeder M, Kohler E, Zeder L, Pernthaler J.

A novel algorithm for the determination of bacterial cell volumes that is unbiased by cell morphology. *Microscopy and Microanalysis*, Accepted 12. May 2011.

Van den Wyngaert S, Salcher MM, Pernthaler J, Zeder M, Posch T.

Quantitative dominance of seasonally persistent filamentous cyanobacteria (*Planktothrix rubescens*) in the microbial assemblages of a temperate lake. *Limnol Oceanogr*. 2011 Jan;56(1):97-109.

Zeder M, Ellrott A, Amann R.

Automated sample area definition for high-throughput microscopy. *Cytometry A*. 2011 Apr;79(4):306-10.

Hörtnagl P, Pérez MT, Zeder M, Sommaruga R.

The bacterial community composition of the surface microlayer in a high mountain lake. *FEMS Microbiol Ecol*. 2010 Sep;73(3):458-67.

Gademann K, Portmann C, Blom JF, Zeder M, Jüttner F.

Multiple toxin production in the cyanobacterium *Microcystis*: isolation of the toxic protease inhibitor cyanopeptolin 1020. *J Nat Prod*. 2010 May 28;73(5):980-4.

Zeder M, Van den Wyngaert S, Köster O, Felder KM, Pernthaler J.

Automated quantification and sizing of unbranched filamentous cyanobacteria by model-based object-oriented image analysis. *Appl Environ Microbiol*. 2010 Mar;76(5):1615-22.

Zeder M, Kohler E, Pernthaler J.

Automated quality assessment of autonomously acquired microscopic images of fluorescently stained bacteria. *Cytometry A*. 2010 Jan;77(1):76-85.

Zeder M, Pernthaler J.

Multispot live-image autofocus for high-throughput microscopy of fluorescently stained bacteria. *Cytometry A*. 2009 Sep;75(9):781-8.

Zeder M, Peter S, Shabarova T, Pernthaler J.

A small population of planktonic *Flavobacteria* with disproportionately high growth during the spring phytoplankton bloom in a prealpine lake. *Environ Microbiol*. 2009 Oct;11(10):2676-86.

Felder KM, Hoelzle K, Wittenbrink MM, Zeder M, Ehrlich R, Hoelzle LE.

A DNA microarray facilitates the diagnosis of *Bacillus anthracis* in environmental samples. *Lett Appl Microbiol*. 2009 Sep;49(3):324-31.

Alonso C, Zeder M, Piccini C, Conde D, Pernthaler J.

Ecophysiological differences of betaproteobacterial populations in two hydrochemically distinct compartments of a subtropical lagoon. *Environ Microbiol*. 2009 Apr;11(4):867-76.

Salcher MM, Pernthaler J, Zeder M, Psenner R, Posch T.

Spatio-temporal niche separation of planktonic *Betaproteobacteria* in an oligo-mesotrophic lake. *Environ Microbiol*. 2008 Aug;10(8):2074-86.

Connor EC, Rott AS, Zeder M, Jüttner F, Dorn S.

¹³C-labelling patterns of green leaf volatiles indicating different dynamics of precursors in *Brassica* leaves. *Phytochemistry*. 2008 Apr;69(6):1304-12.