

Curriculum Vitae - Dr. sc. ETH Zürich Helmut Bürgmann

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Academic degrees

1999-2003 **Ph.D** (Dr. sc. ETH Zürich) at the chair of Soil Biology (J. Zeyer), Institute of Terrestrial Ecology, Swiss Federal Institute of Technology (ETH), Zürich, Switzerland.
1992-1998 **Diploma** in Geoecology (Dipl. Geoökol. Univ.). University of Bayreuth, Germany.

Positions

since 2006 **Senior scientist, research group leader.**
Microbial Ecology research group, Department of Surface Waters - Research and Management, Eawag, , Kastanienbaum, Switzerland.
2005-2006 **Postdoctoral research associate.**
Moran Research Group, Molecular Microbial Ecology, Department of Marine Sciences, University of Georgia, Athens, Georgia.
2003-2004 **Postdoctoral research associate and group leader** Molecular Ecology Workgroup, Chair of Soil Biology (J. Zeyer), Institute of Terrestrial Ecology, ETH Zürich, Switzerland.

Research interests

Functional roles and diversity of microbial communities of inland waters. Roles of freshwater microbes in carbon and nutrient cycles. Resilience of microbial communities and functions. Antibiotics resistance in the aquatic environment

Grants

Involved in proposals raising over 2.5 million CHF from competitive funding sources.

Selected grants:

Since 2015 MOBtrait: Understanding the diversity of aerobic methane oxidizing bacteria in lacustrine oxyclines using community ecology and trait-based modeling. SNF project (460 kCHF)
2013-2014 Distribution and elimination of antibiotic resistance genes and antibiotic resistant bacteria in a drinking water facility of Lausanne (St. Sulpice), Switzerland. H.Bürgmann, F.Hammes, N. Czekalski. Eau Service Lausanne (73 kCHF).
Since 2012 Verhalten von Antibiotikaresistenzen bei der oxidativen Behandlung von Abwasser. U. von Gunten, H. Bürgmann, F. Hammes. BAFU Project (220 kCHF). Extended 2014 (120 kCHF)
2008-2013 Microbial resistance, ecotoxicological impact, and risk assessment of micropollutants in a mid-sized lake. H. Bürgmann (PI), N. Chévre, J. Poté, A. Wüest. SNF ProDoc Research Module (393 kCHF), extended in 2011 (53 kCHF), and funding for Eawag PhD summer school through the ProDoc Training Module (150 kCHF).
2008-2012 Terrestrial/aquatic linkages in microbial biodiversity in alpine floodplains: Swiss National Science Foundation project proposal. Shifting Role of Bacteria in Ecosystem Functioning (MICROLINK). C. Robinson (PI), H. Bürgmann, S. Findlay. SNF project (273 kCHF), extended in 2011.

Services to the scientific community:

Editorial boards & Panels (selection):

2015-present Member of the scientific committee for the Agroscope research program REDYMO
Since 2014- Associate editor, Aquatic Ecology (Springer)
2009-2013 Swiss coordinator, leader of Working Group 3, and member of the Management Committee of COST Action TD0803 "Detecting evolutionary hot spots of antibiotic resistances in Europe (DARE)".

Organized courses, workshops and sessions (selection):

2015 Organizer, Swiss Microbial Ecology meeting, September 2015

Regular peer reviews for international journals: Environmental Microbiology, Microbial Ecology, Environmental Science & Technology, Water Research, Molecular Ecology, Aquatic Ecology, and others

Publications

40 peer-reviewed, 46 total publications, >1660 citations, h-index: 21, i10-index: 25 (Oct. 2015, [Google Scholar](#))