

# CURRICULUM VITAE

**Prof. Dr. rer. nat. Dr. h.c. Michael Wagner**  
[www.microbial-ecology.net/wagner](http://www.microbial-ecology.net/wagner)



## Personal Data

Date of birth: November 18, 1965  
Place of birth: München, Germany  
Nationality: German  
Children: Daniel (1994), David (1998), Leni (2012), Julie (2014)  
Languages: German, English, French  
Actual position: Full Professor for Microbial Ecology

## Education and Positions Held

since 2015 Head of the Research Network “Chemistry meets Microbiology”, University of Vienna  
since 2010 Head of the Large Instrument Facility of Advanced Isotope Research, University of Vienna  
since 2003 Full professor, Head of the Department of Microbiology and Ecosystem Science, University of Vienna  
2001 – 2003 Associate Professor (wissenschaftlicher Oberassistent) at the Technischen Universität München  
2000 Habilitation (Microbiology) at the Faculty of Chemistry of the Technischen Universität München  
1996 - 2000 Assistant Professor at the Technischen Universität München  
1995 - 1996 Postdoctoral fellow at the Northwestern University, Evanston, Il. (Prof. D. A. Stahl, Prof. B. Rittmann); Holder of a DFG research fellowship  
1992 - 1995 Ph.D. (Dr. rer. nat.) at the Technischen Universität München. Supervisors: Prof. Dr. K.-H. Schleifer, Prof. Rudi Amann. "Summa cum laude"  
1986 - 1992 Master (Diplom) in Biology at the Technischen Universität München (Germany); majors: microbiology, genetics, immunology, and clinical chemistry; (Diploma grade with distinction; 1.0)  
1984 High-school diploma, Werner-Heisenberg-Gymnasium Garching, Germany

## Editor or Member of the Editorial Board of the Following Scientific Journals

Since 2016 ISME Journal, Senior Editor  
2003 - 2015 Environmental Microbiology, Editor 2006 - 2015  
2003 - 2006 Microbiology (associate editor)  
2002 - 2010 Applied and Environmental Microbiology  
since 2001 Faculty of 1000 (Environmental Microbiology); [www.facultyof1000.com](http://www.facultyof1000.com)  
2000 - 2003 Biodegradation  
1998 - 2011 FEMS Microbiology Ecology, Editor 2004 - 2011  
1998 - 2002 FEMS Microbiology Letters

## **Member of Grant Review/Evaluation Panels and Ad Hoc Reviewer (selection)**

Ad hoc reviewer for the journals FEMS Microbiology Reviews, *ISME Journal*, **Nature**, *Nature Biotechnology*, *Nature Genetics*, *Nature Chemical Biology*, *Nature Reviews Microbiology*, *Nucleic Acids Research*, **PNAS**; **Science**, *Trends in Microbiology*.

Reviewer of grant applications for the Deutsche Forschungsgemeinschaft (DFG, Germany), Energy Biosciences Institute (University of California, USA); National Environment Research Council (UK), the Israel Science Foundation, the Indo-Swiss Collaboration in Biotechnology (ISCB), the Institute Pasteur (Paris, France), the Danish Research Agency (Denmark), the Danish National Research Foundation, the FWF Austrian Science Fund, the Austrian Academy of Sciences, the Netherlands Genomics Initiative (NGI), the Technology Foundation" (Netherlands), Netherlands Organization for Applied Scientific Research (TNO), and the International Foundation for Science (IFS, Sweden).

Member of Evaluation Panels of the Institute of Molecular Life Sciences and the Institute of Plant Biology at the University of Zurich, Switzerland (2013) and Institute for Water and Wetland Research (IWWR), Radboud University Nijmegen, Netherlands (2014)

## **Teaching Experience, Mentoring, and Team Structure**

I taught general microbiology and microbial ecology classes and lab courses at the Technische Universität München (Germany) from 1996 to 2002. At the University of Vienna (Austria) I teach the following courses (100% taught unless noted; teaching load reduced during the last 5 years to focus on ERC Advanced Grant project):

Physiology of microorganisms (15h per year; lectures); class size: >200

Advances in Molecular Microbial Ecology and Evolution (60h per year, seminar); class size 70

Physiology of microorganisms II (15 h per year, lectures), class size: 50-100; till 2014

Biodiversity and Molecular Microbial Ecology (30h per year; lectures); class size: 100, till 2014

Concepts of Ecology (45h per year, lectures); class size 40 (33%); 2003-2010

Microbial Ecology (60h per year, seminar), class size 30 (33%), till 2014

Molecular and Chemical Methods in Ecology (300h per year, lab course), class size 6 (15%)

Fluorescence *In Situ* Hybridization (180h per year, lab course), class size 12 (33%); 2003 -2010

In addition, I was invited lecturer at several Ph.D. courses at the University of Nancy (Prof. J.C. Block), France, and at the University of Aalborg (Prof. P.H. Nielsen), Denmark. Furthermore, I have been organizing since 1996 the "International FISH Course" (lectures and lab course) at my department (for details see [www.microbial-ecology.net/fishcourse.asp](http://www.microbial-ecology.net/fishcourse.asp)) and I was teaching international courses with up to 100 participants at the National French Sequencing Institute Genoscope (Evry, France; 2001) and for the Italian Society for Microbiology and Biotechnology (Perugia, Italy; 2001-2005). Furthermore, I have participated as invited lecturer at the Woods Hole Microbial Diversity Course in 2009. Since 2000 I organize together with Danish colleagues the biannual InTiME (Innovative Techniques in Microbial Ecology; 11 meetings till today) workshops attended by scientists of the University of Aarhus and Aalborg (Denmark) and my team.

Since 1997 17 PhD students have graduated under my supervision and I have advised 21 Post-Docs. Furthermore, I served as invited international reviewer for Ph.D. defences at the Max-Planck Institute for Marine Microbiology (Germany), the Technical University of Denmark, Lyngby, the University of Aarhus, and the University of Aalborg (all in Denmark), the University of Bergen (Norway), the University of Brisbane (Australia), the University of Nijmegen (Netherlands), the University of Norwich (UK), the University of Utrecht (Netherlands), and the Swiss Federal Institute for Environmental Sciences and Technology (EAWAG, Switzerland).

The division I am heading consists of 73 predominantly young researchers from 20 different countries and includes another full professor (Matthias Horn), three associate (David Berry, Alex Loy and Holger Daims) and two assistant professors (Jill Petersen and Dagmar Wobken), four senior scientists, three technicians, 24 Post-Docs (six directly supervised), 24 PhD students (three directly supervised), and 12 master students and several guest researchers. **In the**

**division four scientists hold an ERC grant** (my advanced grant and three starting grants for D. Berry, M. Horn, and D. Woebken). **17 of my former PostDocs and PhD students hold permanent positions in academia, and 10 of them hold professorships in 6 different countries.**

### **Selected Professional Activities and Service**

2016	Visiting Faculty Fellow – Center for Microbial Interactions (CEMI) - Caltech, USA
2015, 2017	Member of the ERC Advanced Grant Panel LS8
since 2015	Member of External International Advisory Board (EIAB) of the Soehngen Institute of Anaerobic Microbiology, Netherlands established by the Radboud University, Wageningen University, Technical University Delft, and the Royal Netherlands Institute for Sea Research (NIOZ).
2014	Reviewer for the Crafoord prize
since 2013	Guest professor at the Aalborg University Denmark
2012 - 2014	President of the International Society for Microbial Ecology (ISME)
2012	Member of the American Academy of Microbiology environment task force
since 2010	Deputy Chairman of the Austrian Association of University Professors
2010	Appointed member of the 5 person Steering Committee of the Marine Microbiology Initiative of the Gordon and Betty Moore Foundation (USA)
2010 - 2016	Member of the Scientific Advisory Board of the Institute for Mummies and the Iceman, EURAC, Bolzano, Italy
since 2009	Member of the Scientific Advisory Committee for the International Conferences on Nitrification
since 2009	Member of the Senate of the University of Vienna
2005 – 2010	Vice Dean of the Faculty of Life Science of the University of Vienna
2004 - 2010	Board member of the International Society for Microbial Ecology (ISME)
2004	Member of the External Advisory Board of the ERA-NET PathoGenoMics (Trans-European cooperation and coordination of genome sequencing and functional genomics of human-pathogenic microorganisms)
2003 – 2011	Member of the Management Committee of the ÖGHMP (Austrian Society of Hygiene, Microbiology and Preventive Medicine)
2003 – 2005	Member of the Think Tank of the FWF Wissenschaftsfonds
1999	Invited participant at the Scientia Europaea Meeting N°4 of the Institut de France Academie des Sciences
1997 - present	Member of the Management Team of the IWA (International Water Association) Specialist Group on Microbial Ecology and Water Engineering

### **Fund Raising**

Since 1997 I have raised 30 third party fund projects from Germany, Austria, Denmark, the US and the EU as PI and Co-PI. I received an **ERC Advanced Grant 2011**. In total the research of my group was supported by more than **9,1 M€**. My philosophy is to stimulate independent grant submissions by younger researchers and our division is currently involved in several additional ongoing third-party funded projects including **three ERC Starting Grants**, which amount to approx. 15 M€.

## Invited Talks

since 1993                      **211 invited talks** at university seminars and international conferences in 26 countries

## Publication Output

I have published between 1992-2017 in my six major research fields (nitrification, single cell tools, wastewater microbiology, endosymbionts, microbiome, sulfate reduction) **224 papers** and more than 30 book chapters. According to Scopus (September 2017) my publications have been **cited 29,327x** (ISI: 28,188; Google Scholar: 43,329) and I have an **H-index of 91** (ISI: 90; Google Scholar: 110). Seven of my publications appeared in *Nature* (plus a News & Views piece), three in *Science*, ten in *PNAS* (all direct submission) and two in *PLoS Biology*. More info about my publications can be found at:

Scopus:                              <http://www.scopus.com/authid/detail.uri?authorId=7404049045>  
ResearcherID:                      <http://www.researcherid.com/rid/A-7801-2011>  
Google Scholar:                      [https://scholar.google.com/citations?user=JF6OQ\\_0AAAAJ&hl=de](https://scholar.google.com/citations?user=JF6OQ_0AAAAJ&hl=de)

## Honors and Awards

2018	Jim Tiedje Award of the International Society for Microbial Ecology (ISME), lifetime achievement award of the society
2017	Elected Member of the European Molecular Biology Organisation (EMBO)
2016	Full member of the Austrian Academy of Sciences
2016	Highly Cited Researcher ( <a href="http://highlycited.com">http://highlycited.com</a> )
2015	Schrödinger Prize of the Austrian Academy of Sciences
2015	Highly Cited Researcher 2015 ( <a href="http://highlycited.com">http://highlycited.com</a> ) and member of The World's Most Influential Scientific Minds 2015 by Thomson ISI
2014	Einstein Professor of the Chinese Academy of Sciences
2014	Honorary doctorate of the University of Aalborg, Denmark
2014	Highly Cited Researcher ( <a href="http://highlycited.com">http://highlycited.com</a> )
2013	Member of the American Academy of Microbiology
2011	ERC Advanced Grant Winner “NITRICARE: Nitrification Reloaded – a Single Cell Approach”
2009	Elected member of the German National Academy of Sciences, Leopoldina
2009	Corresponding member of the Austrian Academy of Sciences (ÖAW)
2009	Founding member of the European Academy of Microbiology
2008	Main Award of the City of Vienna for Life and Technical Sciences
2006	James M. Craig Memorial Lecturer; Oregon State University, USA (only non-American presenter to receive this)
2003	Division N lecturer, 103 <sup>rd</sup> General Meeting of the American Society for Microbiology; Washington, DC, USA.
2002	Main Award of the German Society for Hygiene and Microbiology
1997	Young Researchers Award of the German Society for Hygiene and Microbiology
1996	Karl-Imhoff-Award (“Belobigung”) of the Abwassertechnischen Vereinigung (German Water and Waste Water Association)

## Patents

since 1998                      three patents

## Organization of International Conferences

As president of the local organizing committee of the **ISME-11 meeting in Vienna** (2006) I was strongly involved in organizing the scientific program for this meeting, which attracted 2000 participants from 65 countries. Furthermore, I was organizing scientific sessions as convenor at the ISME-9, -10, -11, -12 and -13 meetings. As ISME international board member and vice-president I was member of the program committee for ISME-12, ISME 13, and for ISME-14 (2012, Copenhagen). As **ISME president** I have organized together with my team the **ISME-15 conference in Seoul** (South Korea) with more than 1600 participants that took place in August 2014. As ISME past president I was involved in organizing ISME-16 in Montreal, Canada. Furthermore, I am member of the Scientific Advisory Committee for the International Conferences on Nitrification (ICoN; five conferences up to now) and have organized together with Holger Daims and Christa Schleper the ICoN5 meeting 2017 in Vienna. I was also a member of the **Program and Steering Committees of the Microbe 2017 Meeting of the American Society for Microbiology (ASM)** (~10,000 participants).

## Positions Offered

2011	Professor for Microbial Interactions at the ETH Zürich, Switzerland
2008	“Head-hunted” for Governors Chair at the University of Tennessee/Oak Ridge National Labs
2008	“Head-hunted” as Head of the Institute for Molecular Infection Biology at the University of Würzburg
2002	Full Professor for General Microbiology; University Hamburg, Germany
2002	Director of the Ecophysiology Department at the Max-Planck Institute Marburg, Germany
2002	Director of the Institute for Hydrobiology at the German Research Center for Environmental Health (Neuherberg, Germany)
2002	Chair in Microbial Ecology at the University Groningen (Netherlands)
2001	Associate professor with tenure (Microbial Ecology) at the Northwestern University (IL, USA).

Vienna, September 16 2017