CURRICULUM VITAE



Prof. Dr. rer. nat. Dr. h.c. **Michael Wagner** https://dome.univie.ac.at/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 2023	Director of the Austrian Cluster of Excellence "Microbiomes drive Planetary Health" funded by the Austrian Science Fund FWF
Since 2021	Vice-head of the Centre for Microbiology and Environmental Systems Science (Centre Director position is rotating every 2-4 years)
2019 - 2020	Founding Director of the Centre for Microbiology and Environmental Systems Science (full faculty status; almost 300 researchers), University of Vienna
2019 - 2022	Visiting Professor in Engineering Science at the University of Oxford, UK
since 2019	Distinguished professor (20%), Aalborg University, Denmark
2015 - 2019	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

2003 -2018	Head of the Department of Microbiology and Ecosystem Science, University of Vienna
since 2003	Full professor for Microbial Ecology, University of Vienna
2001 – 2003	Associate Professor (wissenschaftlicher Oberassistent) at the Technische Universität München
2000	Habilitation (Microbiology) at the Faculty of Chemistry of the Technische Universität München
1996 - 2000	Assistant Professor at the Technische 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	PhD (Dr. rer. nat.) at the Technische Universität München. Supervisors: Prof. Dr. KH. Schleifer, Prof. Rudi Amann. "Summa cum laude"
1986 - 1992	Master (Diplom) in Biology at the Technische 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

2016 - 2018	ISME Journal, Senior Editor
2003 - 2015	Environmental Microbiology, <u>Editor</u> 2006 - 2015
2003 - 2006	Microbiology (associate editor)
2002 - 2010	Applied and Environmental Microbiology
since 2001	Faculty of 1000 (Environmental Microbiology); www.facultyof1000.com
since 2001 2000 - 2003	Faculty of 1000 (Environmental Microbiology); www.facultyof1000.com Biodegradation
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MEMBER OF GRANT REVIEW/EVALUATION PANELS AND AD HOC REVIEWER (SELECTION)

Ad hoc reviewer for many journals including 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), the International Foundation for Science (IFS, Sweden), the Villum Foundation (Denmark), and the Wallenberg Foundation (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, 2021).

Member of the ERC Advanced Grant (LS8) evaluation panel in 2014, 2016, and 2018.

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 classes and seminars in the bachelor curriculum "Biology" and the master curriculum "Molecular Microbiology, Microbial Ecology, and Immunobiology".

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 from 1996 to 2008 the "International FISH Course" (lectures and lab course) at my department (for details see 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 up to 70 predominantly young scientists of the University of Aarhus and Aalborg (Denmark) and my team.

Since 1997 18 PhD students have graduated under my supervision and I have advised 42 Post-Docs. Furthermore, I served as invited international reviewer for PhD 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).

As displayed in the table below 24 of my former PostDocs and PhD students hold permanent or tenure-track positions in academia, and 14 of them hold professorships in 7 different countries.

Name	Former role in my team	Current position
Dr. Holger Daims	PhD and Post-Doc	Full Professor, University of Vienna
Dr. Alexander Galushko	Post-Doc	Leading Scientist, Agrophysical Research Institute, Russia
Dr. Ping Han	Post-Doc	Assistant Professor (tenure-track), East China Normal University, China

Dr. Roland Hatzenpichler	PhD	Associate professor, Montana State
•		University, US
Dr. Matthias Horn	PhD and Post-Doc	Full Professor, University of Vienna
Dr. Tatsuhiko Hoshino	Post-Doc	Senior Scientist, Japan Agency Marine-Earth Science and Technology, Japam
Dr. Man-Young Jung	Post-Doc	Assistant Professor, Jeju National University, South Korea
Dr. Stefan Juretschko	PhD	Director, Division of Infectious Disease Diagnostic at North Shore- Health System, US
Dr. Natuschka Lee	Post-Doc	Researcher, Umea University, Sweden
Dr. Tae Kwon Lee	Post-Doc	Assistant Professor; Yonsei University, Wonju, South Korea
Dr. Angelika Lehner	Post-Doc	Professor, University of Zürich, Switzerland
Dr. Shurong Liu*	Post-Doc	Assistant professor, Sun Yat-Sen University, China
Dr. Sebastian Lücker*	PhD	Associate professor, Nijmegen University, NL
Dr. Alexander Loy	PhD and Post-Doc	Full Professor, University of Vienna, Austria
Dr. Frank Maixner*	PhD	Senior Scientist, EURAC, Bozen, Italy
Dr. Marc Mussmann	PostDoc	Senior Scientist, University of Vienna, Austria
Dr. Markus Schmid	PhD	Senior Scientist, University of Vienna, Austria
Dr. Stephan Schmitz- Esser**	PhD and Post-Doc	Associate Professor, Iowa State University, US
Dr. Michael Pester	Post-Doc	Professor, Head of Department, German Collection of Microorganisms and Cell Culture DSMZ, Braunschweig, Germany
Dr. Kilian Stöcker	PhD and Post-Doc	Scientist, Bundeswehr Institute of Microbiology, München, Germany
Dr. Mike Taylor	Post-Doc	Associate Professor, University of Auckland, New Zealand
Dr. Julia Vierheilig	Post-Doc	Assistant Professor (Tenure-Track), Technische Universität Wien, Austria
Dr. Baozhan Wang	Post-Doc	Professor, Nanjing Agricultural University, China
Dr. Kenneth Wasmund	Post-Doc	Lecturer, University of Portsmouth, UK

^{*}co-supervised by Dr. Holger Daims; **co-supervised by Dr. Matthias Horn

SELECTED PROFESSIONAL ACTIVITIES AND SERVICE

Since 2024	Chair of the Scientific Advisory Board of the Max-Planck Institute for Marine Microbiology, Bremen, Germany
Since 2022	Elected member of the Senate of the University of Vienna
2020 - 2021	Scientific Coordinator of the Austrian, SARS-CoV-2 school monitoring program
since 2020	Founding member of the Vienna COVID-19 Detection Initiative (https://www.maxperutzlabs.ac.at/vcdi)
since 2018	Member of the Scientific Advisory Board of the Institute of Integrative Biology of the Cell (I2BC), Gif, France
2018 - 2023	Member of the Scientific Advisory Board of the Helmholtz Center for Environmental Research UFZ, Leipzig, Germany
July 2018	Visiting Scientist, Australian Institute for Marine Science (AIMS), Townsville
2014, 2016, 2018	Member of the ERC Advanced Grant Panel LS8
2016	Visiting Faculty Fellow – Center for Microbial Interactions (CEMI) - Caltech, USA
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
2013 - 2019	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
2009 – 2019	Elected 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

FUND RAISING

Since 1997 I have raised more than 35 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 (2.5 Mio €), the FWF Wittgenstein Award in 2019 (1.5 Mio €) and coordinated as a director the successfully application of our Cluster of Excellence "Microbiomes drive Planetary Health" (35 Mio € for the cluster).

INVITED TALKS

since 1993 **258 invited talks** at university seminars and international conferences in 26

countries

PUBLICATION OUTPUT

I have published between 1992 – February 2025 in my six major research fields (nitrification, single cell microbiology, microbiome, wastewater microbiology, endosymbionts, sulfate reduction) 299 papers and more than 30 book chapters. According to Scopus (February 2025) my publications have been cited 55,976 times (ISI: 52,401; Google Scholar: 81,327) and I have an H-index of 126 (ISI: 120; Google Scholar: 149). Eight of my publications appeared in *Nature* (plus a News & Views piece), three in *Science*, 14 in *PNAS* (all direct submission) and two in *PLoS Biology*. More info about my publications can be found at:

Scopus: https://www.scopus.com/authid/detail.uri?authorId=57200814774

ResearcherID: https://publons.com/researcher/2814586/michael-wagner/

GoogleScholar: https://scholar.google.com/citations?user=JF60Q_0AAAAJ&hl=de

HONORS AND AWARDS (SELECTION)

	Health" funded by the Austrian Science Fund FWF (21 Mio €) and the 8
2023	Director of the Austrian Cluster of Excellence "Microbiomes drive Planetary
2024	Highly Cited Researcher (http://highlycited.com)
2024	Elected Member of the Academia Europaea, the Academy of Europe

	participating institutions with 30 key researchers (14 Mio € fresh and recent money) for 5 years with extension option to 10 years after positive evaluation.
2023	Highly Cited Researcher (http://highlycited.com)
2022	Elected as member of the European Academy of Sciences and Arts
2022	Highly Cited Researcher (http://highlycited.com)
2021	Highly Cited Researcher (http://highlycited.com)
2020	Highly Cited Researcher (http://highlycited.com)
2020	Hans-Günter-Schlegel-Lecturer of the Association for General and Applied Microbiology (VAAM) for outstanding scientific achievements for Microbiology in Germany
2019	Wittgenstein Award of the Austrian Science Fund (FWF) on behalf of the Austrian Ministry for Science (1.5 Mio €). Highest science award in Austria.
2019	Visiting Professor in Engineering Science at the University of Oxford, UK
2018	Jim Tiedje Award of the International Society for Microbial Ecology (ISME), lifetime achievement award of the society
2018	Highly Cited Researcher (http://highlycited.com)
2017	Elected Member of the European Molecular Biology Organisation (EMBO)
2017	Highly Cited Researcher (http://highlycited.com)
2016	Full member of the Austrian Academy of Sciences
2016	Highly Cited Researcher (http://highlycited.com)
2015	Schrödinger Prize of the Austrian Academy of Sciences
2015	Highly Cited Researcher (http://highlycited.com)
2014	Einstein Professor of the Chinese Academy of Sciences
2014	Honorary doctorate of the University of Aalborg, Denmark
2014	Highly Cited Researcher (http://highlycited.com)
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 rd 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. 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).

PANDEMIC RESPONSE ACTIVITIES

In March 2020, I initiated together with colleagues the Vienna Covid-19 detection initiative. Together, we developed a **smart testing pipeline** that combines gargling, pooling, and RT-qPCR. This approach has been offered by the City of Vienna till 2023 to all citizens free of charge and was a major pillar in the fight against the pandemic in Austria. Based on these inventions, I initiated a **nationwide SARS-CoV-2 monitoring study that involved four universities** and enrolled 250 Austrian schools and that determined the prevalence of infected pupils and teachers in a representative sample of almost 15.000 persons. We completed six measurement rounds and our approach was partly adopted for the routine school monitoring in Austria in the school year 2021/2022. Our study provided new insights into the role of children and schools in the pandemic and the sensitivity of antigen versus PCR tests for detecting infections in asymptomatic pupils. Our results were published in Lancet Regional Health:Europe and in Eurosurveillance with me as last author. Our findings were also covered extensively in the media including the main news in Austria, Germany and the Netherlands and numerous articles in major international newspapers and newsmagazines.

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 (II, USA).

Vienna, February 2025