

## CURRICULUM VITAE

**Gerhard J. Herndl**

Bio-Oceanography Unit; Department of Functional and Evolutionary Ecology,  
University of Vienna, Althanstrasse 14, A-1090 Vienna, Austria

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Researcher ID at Web of Science: B-1513-2013

orcid.org/0000-0002-2223-2852

EDUCATION

University of Vienna, Habilitation in Ecology	Docent	1992
University of Vienna, Zoology	PhD	1982

THESIS WORK

Ph.D. thesis, University of Vienna: "The feeding behavior of *Actinia equina*  
(Actiniaria, Anthozoa) under experimental conditions"

Advisor: Prof. Erich Abel

Habilitation thesis, University of Vienna: "Marine snow in the Northern Adriatic Sea:  
possible causes and consequences for a shallow ecosystem"

Promotor: Prof. Jörg A. Ott

PROFESSIONAL

Chair of Marine Biology and Head of Unit Bio-Oceanography & Marine Biology at  
the Dept. Functional and Evolutionary Ecology at the University of Vienna, Austria

January 2009 - now

Adjunct Senior Scientist at the Royal Netherlands Institute for  
Sea Research

January 2009 - now

Professor of Biological Oceanography at the University  
of Groningen (The Netherlands)

January 1999 – 2009

Head of Department of Biological Oceanography at the  
Royal Netherlands Institute for Sea Research (NIOZ)

April 1997 – Dec 2008

Assistant Professor at the Univ. of Vienna  
(Inst. of Zoology, Dept. of Marine Biology)

1994 – 1997

Research Biologist at the Univ. of Vienna  
(Institute of Zoology, Dept. of Marine Biology)

1983 – 1994

Post Doctoral Position at Scripps Institution of  
Oceanography, Univ. of California at San Diego, La Jolla,  
California

Advisor: Prof. Farooq Azam

1988 – 1989

BIBLIOMETRICS: (ISI Web of Knowledge, as of 05 Jan 2022)

h-index: 68

total number of ISI indexed publications: 279

total number of citations: 17,370

average citation per item: 61.81

number of citations in 2021: 1331

**RESEARCH INTERESTS**

- Marine Microbial and Molecular Ecology with emphasis on structure and function relationships in microbial communities
- Microbial Oceanography (linking the thermohaline circulation to the biogeography of prokaryotes and to biogeochemical cycling of organic matter particularly in the meso- and bathypelagic realm)
- Biotic and abiotic transformation of organic matter in the sea

**GRANTS (over the last 10 years)**

- 2020: Austrian Science Fund (FWF): Decay of an invasive ctenophore bloom: PI (€ 299,376)
- 2020: EU Project ECOTIP: Arctic biodiversity change and its consequences: assessing, monitoring and predicting the effects of ecosystem tipping cascades on marine ecosystems services and dependent human systems. European Commission: Function: PI (€ 281.237)
- 2019: Lise-Meitner Grant for a Post Doc position for 2 years (€ 159,340), fellow: Eduard Fadeev
- 2018: Marie Skłodowska Curie Individual Fellowship for a Post Doc position for 2 years (€178,156.80), fellow: Tinkara Tinka
- 2017: Grant from the Univ. of Vienna to establish a Research platform on Plastics in the Environment and Society (PLENTY); Function: PI (€ 409,000)
- 2016: Marie Curie Individual Fellowship for a Post Doc position for 2 years (€178,157), fellow: Chie Amano
- 2015: Austrian Science Fund (FWF): Architecture of marine snow-associated prokaryotic communities. Function: PI (€441,052)
- 2015: DOC grant of the Austrian Academy of Sciences for a PhD position for 3 years, (€111,000) fellow: Maria Pinto
- 2012: Marie Curie Individual Fellowship for a Post Doc position for 2 years (€180,191), fellow: Pedro Frade
- 2012: Marie Curie Individual Fellowship for a Post Doc position for 2 years (€180,191), fellow: Daniele de Corte
- 2011: Wittgenstein Prize (FWF) (€ 1.500,000)
- 2010: Austrian Science Fund (FWF): Microbial activity in the ocean's interior. Function: PI (€ 495,674)
- 2010: ERC Advanced Grant: Microbial Ecology of the Deep Atlantic Pelagic Realm (MEDEA) (€ 2.500,000) Function: PI
- 2010: ESF Eurocores project: Microbial oceanography of chemolithoautotrophic plankton communities (MOCA) (€ 533,000) Function: Coordinator
- 2010: Marie Curie Individual Fellowship for a Post Doc position for 2 years (€165,000): Itziar Lekunberri

*Career total (as of 01-01-2022): € 18.751,653.-*

**TEACHING**

- 2016 - Microbial Oceanography Course (summer term, 10 ECTS)
- 2016- Course: Current topics in Bio-Oceanography (summer term, 6 ECTS)
- 2009 - Introduction to Marine Science (fall term, 5 ECTS)
- 2009 - Biological Oceanography (fall term, 3 ECTS)

- 2009 - Microbial Oceanography (spring term, 3 ECTS)
- 2009 - 2014 Introductory Course Marine Biology (spring term, 6 ECTS)
- 2010 - 2014 Advanced Marine Ecology Course (spring and fall term, 10 ECTS)
- 2010 - Introduction to Ecology (fall term, 2 ECTS)
- 2000-2009 - Introductory course in Marine Science at the Univ. of Utrecht
- 1998-2007 - Course in Marine Science within the European College of Marine Sciences (jointly organized by the NIOZ, the MPI for Marine Microbiology, the AWI Bremerhaven and the Univ. of Bremen)
- 1998-2009 - Lectures and Courses in Biological Oceanography (Univ. of Groningen, NIOZ)
- 1996 - Lecturer at the University of Rostock (Germany): Biogeochemistry of Marine Aggregates
- 1995 - Marine Ecology Course, Univ. of Vienna, Austria (Instructor-In-Chief, 10 hours per week)
- 1984-1997 - Assistant Instructor in courses of the Institute of Zoology, University of Vienna:  
 Introduction to Comparative Anatomy  
 Advanced Comparative Anatomy  
 Advanced Marine Ecology (held at the Stazione Zoologica di Napoli, Naples, Italy, at the Marine Biology Station Piran, Slovenia and at the Center of Marine Research "Ruder Boskovic" Institute at Rovinj, Croatia)  
 Introductory Course to Marine Organisms
- 1990 - Instructor of the part of the UNESCO course in limnology: Aquatic Microbial Ecology held at Vienna and Mondsee (Austria)
- 1992-1998 - Aquatic Microbial Ecology Course, Univ. of Vienna, Austria (Instructor-In-Chief, 3 hours per week)
- 1990-1997 - Nutrient Flux and Biogeochemistry in the world's oceans (class at the Institute of Zoology, Univ. of Vienna, 2 hours per week)
- 1988-present- Supervisor of M.Sc. and Ph.D. students (at the University of Vienna, and the University of Groningen, The Netherlands)
- 1988 - Instructor of the course of the Institute of Genetics and Microbiology, Univ. of Vienna:  
 Microbial Ecology of Marine Systems (held at the Marine Biology Station at Calvi, Corsica, France)

### **CONFERENCE CONTRIBUTIONS (over the past 12 years)**

- 2021: Invited Speaker at the Ramon Margalef summer school: A cross-system view of the biological C cycle in the Anthropocene. (virtual meeting, Barcelona, Spain)
- 2019: Invited Speaker at Goldschmidt Conference at Barcelona, Spain
- 2019: Session chair at IMBeR Future Oceans 2 meeting at Brest, France
- 2019: Invited speaker at the Marine Particles and Phycosphere Conference at Lugano, Switzerland
- 2019: Invited speaker and session organizer at the ASLO meeting at San Juan, Puerto Rico
- 2017: Invited Speaker at the Mini-Symposium on the International Prize of Biology, Tsukuba, Japan

- 2017: IMBIZO-3 of IMBeR, leading the workshop 2 on metabolic diversity and climate change together with Tatiana Rynearson at Woods Hole Oceanographic Institution, Woods Hole, MA, USA
- 2017: SAME-15 at Zagreb, Croatia
- 2017: International Conference on Nitrogen (ICoN-5), at Vienna, Austria
- 2016: Invited lecture at 11<sup>th</sup> International Congress on Extremophiles at Kyoto, Japan
- 2016: Invited lecture at 5<sup>th</sup> International Workshop on Deep Sea Microbiology at Kyoto, Japan
- 2016: Invited speaker at the Gordon Research Conference on Marine Biogeochemistry at HongKong
- 2016: Ocean Sciences Meeting at New Orleans, USA
- 2016: Invited lecture at the Deep-Sea Microbial Ecology Symposium at the Institute of Marine Science at the University of Concepcion, Chile
- 2015: SAME-14 at Uppsala, Sweden
- 2015: ASLO meeting, Granada, Spain
- 2014: International Workshop Geo-Metabolomics: first steps towards a systems biology understanding of organic matter cycling in aquatic systems. Delmenhorst, Germany
- 2014: Session organizer at the Ocean Sciences Meeting at Hawaii
- 2013: Invited speaker SAME-13 at Stresa, Italy
- 2013: Co-Organizer, Session Chair and Speaker at the workshop: Frontiers in Ecological and Evolutionary Genomics, Noordwijkerhout, The Netherlands
- 2013: Session Chair: Hooking up in the Ocean, American Society of Microbiology, Denver, Colorado, USA
- 2013: ASLO meeting, New Orleans, USA
- 2012: Invited Speaker at the Biological Pump Workshop (NAACOS seminar) at the National Institute of Aquatic Resources (DTU Aqua, Copenhagen, Denmark
- 2012: Invited Speaker at the Microbial Carbon Pump Meeting at Delmenhorst, Germany
- 2012: Gordon Conference on Marine Microbes at Lucca, Italy
- 2012: Session Chair: 'Shedding light on the dark ocean' at the Ocean Science Meeting at Salt Lake City, USA
- 2011: Invited speaker at the SAME-12 in Rostock, Germany
- 2011: Invited speaker at the EGU meeting in Vienna, Austria
- 2011: Speaker at the ASLO meeting in San Juan, Puerto Rico
- 2010: Invited speaker and session organizer at the ISME-13 at Seattle, WA, USA
- 2010: Invited speaker at the Gordon Conference on Marine Microbes, Tilton, New Hampshire, USA
- 2010: Invited speaker at the Microbial Diversity and Function Workshop at Banylus sur mer, France
- 2010: Meeting organizer of ICoMM progress meeting at USC Los Angeles, USA
- 2009: SCOR-meeting on 'The oceanic carbon pump' at Xiamen, China
- 2009: Meeting of the International Census of Marine Microbes (ICoMM) at Amsterdam, The Netherlands
- 2009: Invited speaker at the Symposium of Aquatic Microbial Ecology (SAME-11) at Piran, Slovenia
- 2009: EGU meeting, Vienna, Austria

2009: Session organizer on Deep Sea Microbial Oceanography at the ASLO meeting at Nice, France

### **POST DOCS**

#### *Current:*

Chie Amano, 2014-2021

Eduard Fadeev, 2019-2021

Allesandra Iannino, 2021-2022

#### *Past:*

Tinkara Tinta, 2018-2020 (now Senior Researcher at the Marine Biology Station Piran, Slovenia)

Abhishek Srivastava, 2014-2018

Eva Sintes, 2002 – 2018 (now Research Professor at the Spanish Oceanographic Institute, IOE, Mallorca, Spain)

Cristina Romera-Castilla, 2016-2017 (now at CSIC Barcelona, Spain)

Roberta Hansman, 2011-2016 (now: scientist at Marine Environmental Lab at Monaco, IAEA)

Juan A. Garcia, 2011-2016

Daniele de Corte, 2012-2016 (now: Post Doc at JAMSTEC, Japan)

Pedro Frade, 2011-2015 (now: Post Doc at AIMS, Townsville, Australia)

Itziar Lekunberri, 2010-2012

Dominique Lamy, 2009-2011 (now: scientist at the Pierre & Marie Curie-Sorbonne Univ.)

Alejandra Calvo-Diaz, 2009-2011

Taichi Yokokawa, 2007-2010 (now: Senior Scientist at Japan Marine Science and Technology, prior: Center for Marine Environmental Studies, Ehime Univ., Japan)

Yao Zhang, 2008 (now: Professor at Xiamen University, PR China)

Georgina Spyres, 2006 – 2008 (now: scientist at Hellenic Center for Marine Research at Athens, Greece)

Thomas Reinthaler, 2005 – 2008 (now Senior Scientist at the Dept. Limnology and Bio-Oceanography, Univ. of Vienna, Austria)

Helene Agogue, 2006 – 2008 (now: Research Scientist at Inst. of Sea Research at La Rochelle, France)

Marta Varela, 2005 – 2007 (now: research scientist at Univ. of Coruña, Spain)

Jesus Maria Arrieta, 2005 (now: Research Scientist at KAUST, Saudi Arabia, prior: IMEDEA, Mallorca, Spain)

Karen Stoderegger, 2001 – 2004

Eva Teira, 2002 – 2004 (now: Professor at Univ. of Vigo, Spain)

Markus Weinbauer, 2000 – 2002 (now Senior Scientist at LOV, Villefranche sur mer, France)

Maria Teresa Perez, 2000 – 2001 (now: research scientist at Univ. of Innsbruck, Austria)

Ingrid Obernosterer, 2000 (now: Senior Scientist at LOMIB, Banyuls sur mer, France)

### **PhD and MSc STUDENTS**

#### *Current:*

Mili Shah, PhD thesis 2018-

Zihao Zhao, PhD thesis 2016-

Dacimoneida del Carmen Brito Peña, MSc thesis 2018-

Murat Kisadur, MSc thesis 2018-

Viktoria Keller, MSc thesis 2020

Marion Vial, MSc thesis 2021-

Cassandra Roch, MSc thesis 2021-

*Past:*

Rainer Amon, M.S.thesis 1988 – 1989 (now: Assoc. Prof. at Univ. of Texas at Austin, Galveston, USA)

Markus Karner, M.S. thesis 1989 – 1991 (now: environmental consulting agency, Singapore)

Alexander Bochdansky, M.S. thesis 1990 – 1992 (now: Assist. Prof. at Old Dominion Univ., Virginia, USA)

Elisabeth Kaltenböck, M.S. thesis 1990 – 1992, Ph.D. thesis 1992 – 1998 (now: lecturer at Univ. of Long Beach, California, USA)

Markus Moeseneder, M.S. thesis 1992 – 1994, Ph.D. thesis 1994 – 2001

Barbara Berger, M.S. thesis 1991 – 1992, Ph.D. thesis 1992 – 1995

Birgit Hoch, M.S. thesis 1991 – 1992, Ph.D. thesis 1992 – 1995

Jürgen Frick, M.S. thesis 1991 – 1992

Gerald Müller-Niklas, M.S. thesis 1991 – 1993, Ph.D. thesis 1993 – 1996

Gerda Böröcz, M.S. thesis 1992 – 1993

Hannes Rath, Ph.D. thesis 1991 – 1993 (now: research scientist at Univ. of Vienna, Austria)

Andreas Heissenberger, M.S. thesis 1992 – 1993, Ph.D. thesis 1993 – 1996 (now: scientist at Environmental Protection Agency, Vienna, Austria)

Doris Slezak, M.S. thesis 1992 – 1994, Ph.D. thesis 1994 – 2000

Ingrid Obernosterer, M.S. thesis 1992 – 1994, Ph.D. thesis 1994 – 2000 (now: senior scientist at IOB, Banyuls sur mer, France)

Stefan Schuster, M.S. thesis 1993 – 1994, Ph.D. thesis 1994 – 1997

Bettina Reitner, M.S. thesis 1994 – 1996, Ph.D. thesis 1996 – 2001 (now: Austrian Science Foundation, Vienna, Austria)

Martin Agis, M.S. thesis 1994 – 1996

Edith Kaiser, M.S. thesis 1994 – 1996 (now: Assist. Prof. at Univ. of Zürich, Switzerland)

Albert Brugger, M.S. thesis 1994 – 1996, Ph.D. thesis 1996 – 2000

Silvia Hager, Ph.D. thesis 1994 – 1996

Clemens Pausz, M.S. thesis 1995 – 1997, Ph.D thesis 1997 – 2002

Karen Stoderegger, M.S. thesis 1995 – 1997, Ph.D thesis 1997 – 2000

Lilly Hocke, M.S. thesis 1996 – 1997

Barbara Dusek, M.S. thesis 1996 – 1997

Iris Kremlizcka, M.S. thesis 1997 – 1998

Christian Winter, M.S. thesis 1998 – 1999, Ph.D. thesis 2000 – 2004 (now: Senior Scientist at the Dept. of Marine Biology, Univ. of Vienna, Austria)

Michael Schauer, M.S. thesis 1998 – 1999

Astrid Schnetzer, Ph.D. thesis 1997 – 2001 (now: Assoc. Prof. at North Carolina State Univ., USA)

Alexander Domnanovic, M.S. thesis 2000-2001

Timea Szökes-Denes, M.S. thesis 2001 – 2002

Jesus Maria Arrieta, Ph.D. thesis 1996 – 2005 (now: research scientist at IMEDEA, Mallorca, Spain)

Heidi Pirker, M.S. thesis 2001 – 2004  
Thomas Reintaler, Ph.D. thesis 2000 – 2006 (now: Senior Scientist at the Dept. of Marine Biology, Univ. of Vienna, Austria)  
Anne-Carlijn Alderkamp, Ph.D. thesis 2000-2006 (now: Post Doc at Univ. of California at Stanford, California, USA)  
Veronica Parada, Ph.D. thesis 2002-2008  
Federico Baltar, PhD thesis 2007-2010 (now Lecturer at the Univ. of Otago, New Zealand)  
Kerstin Olbrich, M.S. thesis 2010-2011  
Thomas Griessler, M.S. thesis, 2010-2011  
Daniele de Corte, Ph.D. thesis 2007 – 2011 (now: Post Doc at JAMSTEC, Japan)  
Adam Klimiuk, Ph.D. thesis 2009-2012  
Carl Kruspe, M.S. thesis 2011-2012  
Ishraga Usman, Ph.D. thesis 2008 – 2012  
Paul Steiner, M.S. thesis 2011-2013, PhD thesis, 2014-2020  
Franziska Eibenberger, M.S. thesis 2011-2013  
Claudia Sulzer, M.S. thesis 2011-2013  
Beate Husein, M.S. thesis 2011-2013  
Katharina Roll, M.S. thesis 2012-2013  
Lisi Scharnreitner, M.S. thesis 2013-2013  
Pavla Debeljak, M.S. thesis 2013-2014; PhD thesis: 2016-2019 (co-supervision with Ingrid Obernosterer, Univ. of Paris, Sorbonne)  
Barbara Bayer, M.S. thesis 2013-2014, Ph.D. thesis 2014-2019  
Johanna Tiroch, M.S. thesis 2013-2014  
Benjamin Pontiller, M.S. thesis 2014-2015  
Damaris Urban, M.S. thesis 2013-2015  
Bettina Glasl, MS. thesis 2014-2015  
Ariana Peterca, MS. thesis 2015-2016  
Alexander Frank, PhD.thesis 2011-2017 (now: Post Doc at Woods Hole Oceanographic Institute, USA with Elizabeth Kujawinski)  
Teresa Langer, MSc thesis 2016-2017  
Paula Polania Zenner, MSc thesis 2017-2018  
Kristin Bergauer, PhD thesis 2009-2018, now Junior Group Leader at GEOMAR, Germany  
Gabriela Dangl, MSc thesis 2016-2018  
Julia Stefanschitz, MSc thesis 2017-2018  
Nicole Köster, PhD thesis 2012-2019  
Meriel Bittner, MSc thesis 2017-2019  
Lukas Malfertheiner, MSc thesis 2019-2020  
Alvaro Escobar, MSc thesis 2019-2020  
Maximilian Patraki, MSc thesis 2019-2020  
Christian Jansen, MSc thesis 2017-2020  
Julia Steiger, MSc thesis 2018-2020  
Elisabeth Haberleitner-Clifford, PhD thesis 2013-2020  
Maria Pinto, PhD thesis 2016-2020  
Jennifer Hennenfeind, MSc thesis 2020-2021  
Marion Vial, MSc thesis 2021-2021  
Sabine Weidlich, MSc thesis 2020-2021

**THESIS COMMITTEES***Current:*

Gabriela Dangl (Institute for Baltic Sea Studies, IOW, Warnemünde, Germany)

*Past:*

Katharina Kitzinger (Max-Planck Institute for Marine Microbiology, Bremen, Germany)

Guillem Salazar (CSIC Barcelona, Spain)

Victor Hernando Morales, (University of Vigo, Spain)

Carlo Berg (University of Rostock, Germany)

Christina Bienhold (Max-Planck Institute for Marine Microbiology, Bremen, Germany)

Clara Ruiz (CSIC Barcelona, Spain)

Christian Stolle (Baltic Sea Institute (IOW, Warnemünde, Germany)

Federico Baltar (University of the Canary Islands, Las Palmas, Spain)

Raffaella Cattaneo (Laboratoire d'Océanographie de Villefranche (LOV)

Birgit Luef (Dept. Limnology, Univ. of Vienna, Austria)

Jasper de Goeij (NIOZ, Univ. Groningen, The Netherlands)

Anne-Claire Baudoux (NIOZ, Univ. Groningen, The Netherlands)

Marjolijn Tijdens (NIOO-CL, Univ. Utrecht, The Netherlands)

Bart Veuger (NIOO-CEME, Univ. Utrecht, The Netherlands)

Cornelia Wuchter (NIOZ, Univ. Utrecht, The Netherlands)

Osana Bonilla (Univ. of Paris, France)

Carol Mancuso Nichols (Univ. of Tasmania, Australia)

Sander Scheffers, NIOZ, Univ. Amsterdam (Netherlands)

Corina P.D. Brussaard, Univ. of Groningen (Netherlands)

Jasper van Hemst, Univ. of Utrecht (Netherlands)

Niels Ekelund, Univ. of Lund (Sweden)

Xavier Mari, Univ. of Paris (France)

Geraldine Kramer, Univ. of Rostock (Germany)

Markus Karner, Univ. of Paris (France)

Bea Hondeveld (Univ. Amsterdam, Netherlands)

Gert-Jan Gast (Univ. Amsterdam, Netherlands)

Tom Battin, Univ. of Vienna (Austria)

Thomas Hein, Univ. of Vienna (Austria)

Wairimu Muia, Univ. of Vienna (Austria)

Herwig Ranner, Univ. Vienna (Austria)

Wolfgang Huber, Univ. Vienna (Austria)

Petra de Goeij, Univ. Groningen (Netherlands)

Peter Boelen, Univ. Groningen (Netherlands)

Jody de Brouwer, Univ. Nijmegen (Netherlands)

Edith Kaiser, EAWAG (Switzerland)

Johanna Waska, Univ. Vienna (Austria)

Andrea Malits (Univ. Vienna, Austria)

Sophie Beauvais (Univ. Paris VI, France)

Daniel Abed-Navandi (Univ. Vienna, Austria)

**AWARDS**

2017: ASLO Fellow

2014: G.E. Hutchinson Award of ASLO  
2013: Elected Member of the Austrian Academy of Sciences  
2012: Most cited Aquatic Biologist of Germany, Austria and Switzerland (Labjournal, April 2012)  
2011: Wittgenstein Prize of the Austria Science Fund (FWF)  
2011: Corresponding Member of the Austrian Academy of Sciences  
2010: ERC Advanced Grant  
2006: 2006EurOceans Roland Wollast Award for Scientific Achievements  
1982: Theodor Körner Award

### **SERVICE TO THE UNIVERSITY**

Director of the Vienna Doctoral School of Ecology and Evolution of the University of Vienna from 2020-  
Vice-Dean of the Fac. of Life Sciences of the University of Vienna from 2018-2020  
Dean of the Faculty of Life Sciences of the University of Vienna from 2014-2018  
Deputy Head of the Department of Limnology & Oceanography from 2013-2018  
Head of Division Bio-Oceanography from 2013-  
Head of the Department Marine Biology from 2008-2013  
Director of the PhD program of the Faculty of Life Sciences from 2009-2013  
Director of the Center of Ecology from 2012-2014  
Vice-Director of the Center of Ecology from 2008-2012

### **SERVICE TO THE SCIENTIFIC COMMUNITY**

**Head of the External Evaluation Panel** of the Biological Department at the University of Cyprus (14-15 Jan 2021)  
**Elected Member of the Austrian Academy of Sciences**, since May 2013  
**Member of the SCOR working group: Respiration in the Mesopelagic Ocean (ReMO):** Reconciling ecological, biogeochemical and model estimates (WG 161, 2020-2024)  
**Head of the Scientific Advisory Board of the Oceanology Observatory of Banyuls sur mer, France** (2017-2019)  
**Head of the Scientific Advisory Board of the WasserCluster Lunz, Austria** (2012-2022)  
**Member of the Scientific Advisory Board of the Leibniz-Institut für Ostseeforschung Warnemünde** (2016-2025)  
**Member of the ESF College of Expert Reviewers** (2017-2019)  
**Member of the Scientific Advisory Board of the Ocean Clean Up Initiative** (2016-2022)  
**Member of the Scientific Advisory Board of the Red Sea Research Center at KAUST, Saudi Arabia** (2014-2017)  
**Member of the Vladimir Ivanovich Vernadsky Medal Committee of the European Geosciences Union** (2016-2019)  
**Member of the Scientific Advisory Board of the Ruder Boskovic Institute, Zagreb, Croatia** (2016-2022)  
**Member of the Scientific Board Member of International Society of Environmental Geochemistry (ISEG)**, 2015-2017  
**Member of the Science Steering Committee of IMBER (Integrated Marine Biogeochemistry and Ecosystem Research)**, co-sponsored by SCOR and Future Earth, 2014-2019

**Member of the Scientific Advisory Board** of the Institute for Chemistry and Biology of the Sea at the Univ. of Oldenburg, Germany, 2008-2011, 2011-2014

**Member of the Award Panel** at ASLO, 2015-2017

**Member of the Review Panel** of the University of Otago, Dunedin, New Zealand (May 2015)

**Member of the Organizing Committee of the ASLO meeting in Granada, Spain** (2014-2015)

**Member of the international Organizing Committee of SAME-11, SAME-12, SAME-13, SAME-14, SAME-15, SAME-16**

**Member-At-Large of the Association for the Sciences of Limnology and Oceanography** (2012-2013)

**Corresponding Member of the Austrian Academy of Sciences**, May 2011-May 2013

**Member of the IMBER/SOLAS working group on Carbon Research** from 2005-2008, expert for the mesopelagic/bathypelagic

**Member of the Steering Committee of the International Census of Marine Microorganisms (ICoMM) as part of the Census of Marine Life (CoML)** from 2005-2010

**Member of the SCOR working group: The Microbial Carbon Pump in the Ocean** (2008-2012)

**Associate Member of the SCOR working group: Role of viruses in marine ecosystems** (2006-2010)

**Member of the Advisory Board of the Dutch Marine Facilities** of the Dutch Science Foundation from 2003-2005

**President of the Microbiology Section of CIESM** (Commission of the Scientific Exploration of the Mediterranean Sea) (2001-2007)

**External Reviewer for Applications for Promotion to Full Professor and Tenure positions/ Habilitations** for the Univ. of British Columbia at Vancouver (Canada), Univ. of Nice (France), Univ. of Paris VI (France), Univ. of Connecticut (USA), Univ. of Hamburg (Germany), Univ. of Oldenburg (Germany), Univ. of Bremen (Germany), Rutgers State Univ. of New Jersey (USA), State University New York at Stony Brook (SUNY) (USA), Univ. of California Santa Barbara (USA), Univ. of Zurich (Switzerland), Woods Hole Oceanographic Institution (USA), MIT (USA), Univ. of South Bohemia Ceske Budejovice (Czech Republic), University of Trebon (Czech Republic), Max Planck Institute for Marine Microbiology (Germany), University of Salzburg (Austria), University of Bremen (Germany)

**Ad-hoc reviewer for National Science Foundations:**

US-NSF, US-NOAA, NSERC-Canada, NERC-UK, French CNRS, French ANR, Austrian Science Foundation (FWF), Dutch Science Foundation (NWO), European Research Council, Interamerican Science Foundation (US-South America), Finnish Academy of Science, French ANR, French CNRS, Greek Ministry of Education and Science, German-Israeli Cooperation in Marine Science, Israel Science Foundation, Deutsche Forschungsgemeinschaft (German Research Foundation), Academy of Science of the Czech Republic, European Research Council, Danish National Research Foundation, Leibniz Gemeinschaft-Germany, King Abdullah University of Science and Technology (KAUST-Saudi Arabia),

**Appointed Reviewer for and Adviser to the Research Council of Norway** for Terrestrial and Aquatic Microbial Ecology and Biotechnology (2000-2007)

**Editor of** Aquatic Microbial Ecology (2002-)  
 Marine Ecology (2001-2013)  
 Limnology & Oceanography: Methods (2003-2014)  
 Biogeosciences (2009-2019)  
 Frontiers in Microbiology (2011-2015)

**Editorial Board of** The ISME Journal (2012-2014)

**Member of the Nomination Committee of the American Society of Limnology and Oceanography** (2000-2004 & 2010-2011)

**Chair of the Nomination Committee of the American Society of Limnology and Oceanography** (2004)

**Reviewer of CEC-proposals** in the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Framework program of the Commission of the European Community (CEC)

**Reviewer of ERC Advanced Grant proposals** (2009, 2011)

**Reviewer of the ERC Synergy Grant proposals** (2012)

#### Over the last 10 years

- |           |   |
|-----------|---|
| 2021      | Member of the International Organizing Committee of the ASLO meeting 2021, virtual meeting  |
| 2019      | Member of the International Organizing Committee of SAME-16 held at Potsdam, Germany in Sept 2019   |
| 2017      | Organizer of the workshop “Metabolic diversity and evolution in marine biogeochemical cycling and ocean ecosystem processes” in the frame of IMBeR-IMBIZO-3 held at Woods Hole Oceanographic Institute in Oct together with Tatiana Rynearson |
| 2017      | Member of the International Organizing Committee of SAME-15 held at Zagreb, Croatia in Sept 2017  |
| 2015/2014 | Member of the International Organizing Committee of SAME-14 held at Uppsala, Sweden in Sept 2015  |
| 2014      | Member of the International Organizing Committee of the ASLO meeting 2015 at Granada (Spain)  |
| 2014      | Co-organizer of the session ‘Shedding light on the dark ocean’ at the Ocean Sciences Meeting at Hawaii together with Ramunas Stepanauskas   |
| 2013      | Co-Organizer and Session Chair at the workshop: Frontiers in Ecological and Evolutionary Genomics, Noordwijkerhout, The Netherlands   |
| 2013      | Session Chair: Hooking up in the Ocean, American Society of Microbiology, Denver, Colorado, USA   |
| 2012      | Session Chair at the Ocean Sciences Meeting at Salt Lake City   |

### **REVIEWS and EVALUATIONS**

#### **Journals**

Aquatic Biology; Aquatic Ecology; Aquatic Sciences; Applied Environmental Microbiology; Archiv f. Hydrobiologie/Ergebnisse der Limnologie; Arctic, Antarctic, and Alpine Research; Biogeochemistry; Biogeosciences; BMC Microbiology; Botanica Marina; Canadian Journal of Fisheries and Aquatic Sciences; Chemosphere; Continental Shelf Research; Coral Reefs; Deep Sea Research; Ecology Letters; Ecosystems; Environmental Microbiology; Environmental Science & Technology; Estuaries; Estuarine, Coastal and Shelf Sciences; FEMS Microbiology Ecology; FEMS Microbiology Reviews; Frontiers in Marine Science, Frontiers in

Microbiology; Geophysical Research Letters; Hydrobiologia; Indian Journal Marine Science; ISME Journal; Journal of Experimental Marine Biology and Ecology; Journal of Geophysical Research – Oceans; Journal of the Marine Biological Association of the United Kingdom; Journal of Marine Systems; Journal of Microbiological Methods; Journal of Photochemistry and Photobiology; Journal of Plankton Research; Journal of Sea Research; Limnology & Oceanography; Limnology & Oceanography:Methods; Marine Biology; Marine Chemistry; Marine Ecology; Marine Ecology Progress Series; Marine Environmental Research; Marine and Freshwater Research; mbio; Microbial Ecology; Microbiological Research; Molecular Ecology; National Geographic; Nature; Nature Microbiology; Nature Reviews: Microbiology; Nature Communications, Ocean Dynamics; PLoS ONE, Polar Biology; Polar Research; Proceeding National Academy of Science USA (PNAS); Progress in Oceanography; Science; Science Advances, Soil Biology and Biochemistry; Toxicological and Environmental Chemistry; Trends in Ecology & Evolution

Member of the Editorial Board of Marine Microbial Food Webs (1992-1995)

Member of the Editorial Board of Aquatic Microbial Ecology (1995-2002)

### **OCEANOGRAPHIC RESEARCH CRUISES**

1985 – 1995: 1 day cruises on R/V Vila Velibita (Adriatic)

1988 R.V. New Horizon (off California, 1 week)

1990 R.V. Discovery (North Atlantic, 5 weeks)

1994 R.V. Thethys II (Mediterranean Sea, 1 week)

1999 R.V. Pelagia (North Atlantic, 3 weeks)

2000 R.V. Pelagia (North Sea, 2 times 2 weeks)

2001 R.V. Navicula (coastal North Sea, 1 week)

2001 R.V. Pelagia (Mediterranean, Atlantic, 2 weeks, Chief Scientist)

2002 R.V. Pelagia (North Sea, 2 weeks)

2002 R.V. Pelagia (North Atlantic, 4 weeks, Chief Scientist)

2003 R.V. Pelagia (North Atlantic, 4 weeks, Chief Scientist)

2003 R.V. Pelagia (Mediterranean Sea, 3 weeks, Chief Scientist)

2004 R.V. Polarstern (Atlantic sector of Southern Ocean, 9 weeks)

2004 R.V. Pelagia (Mauritanian upwelling, subtropical North Atlantic gyre, 4 weeks, Chief Scientist)

2005 R.V. Pelagia (North Atlantic gyre, 4 weeks, Chief Scientist)

2006 R.V. Pelagia (North Atlantic gyre, 4 weeks, Chief Scientist)

2007/08 R.V. Pelagia (North Atlantic gyre, 4 weeks, Chief Scientist)

2010 R.V. Pelagia (North Atlantic gyre, 4 weeks, Chief Scientist)

2011 R.V. Pelagia (North Atlantic, 4 weeks, Chief Scientist)

2012 R.V. Pelagia (northern North Atlantic, 4 weeks, Chief Scientist)

### **MEMBERSHIP IN INTERNATIONAL SOCIETIES**

American Society of Limnology & Oceanography, now: Associations of the Societies of Limnology and Oceanography (since 1989)

American Society of Microbiology (1989-2010)

International Society for Microbial Ecology (2006-2017)

International Society for Environmental Geochemistry (2015-2018)