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Date of Birth: 28.10.1976  
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## Research Interests

### *Special fields of expertise:*

1. Microbial processes affecting invertebrates
2. Shallow water habitats and their microbial processes
3. Development of technical equipment usable by scuba divers

### *Additional fields of interest:*

- General Microbial Ecology
- Methane biogeochemistry
- Marine carbon cycle: production and degradation
- Microbial symbiosis
- Changes: Invasive species and disease outbreaks

## Research Projects

<b>Since 2011</b>	ECO2 <i>PostDoc scientist at MPI MM</i>
<b>Since 2009</b>	SEDCOR – Sediment affecting coral physiology <i>PostDoc scientist, and scientific diver at AIMS and MPI MM</i>
<b>Since 2009</b>	Invasive Species Documentation: Mediterranean Sea <i>Leading scientist, Supervisor of Master students, and scientific diver at HYDRA</i>
<b>Since 2008</b>	Sponge Mass Dying Documentation: : Mediterranean Sea <i>Leading scientist, Supervisor of Master students, and scientific diver at HYDRA</i>
<b>Since 2007</b>	BIOSED <i>Leading scientist, Supervisor of Master students, and scientific diver at HYDRA</i>
<b>Since 2007</b>	Sharkfall <i>Leading scientist, and scientific diver at HYDRA</i>
<b>Since 2006</b>	PAGS <i>Leading scientist, Supervisor of Bachelor students, and scientific diver at HYDRA</i>
<b>2009</b>	Coral-Algae Interaction <i>Supervisor of a Master student</i>
<b>2002 – 2008</b>	SynEff, MASE, ReefSed, DOMS <i>Doctorate student, and scientific diver at AIMS, MPI MM and HYDRA</i>

## University Education

<b>2004 - 2009</b>	University of Bremen, Germany <i>Doctorate in Biology</i>
<b>2000 - 2003</b>	University of Bremen, Germany <i>Diploma in Biology (equivalent to Master of Science)</i> <i>Focus: Marine Biology</i>
<b>1998 - 1999</b>	University of Tübingen, Germany <i>Vordiplom in Biology (equivalent to Bachelor of Science)</i>
<b>1997</b>	Hawaii Pacific University, USA <i>Studies of Marine Sciences</i>

## Academic Career

<b>Since 2009</b>	HYDRA Institute for Marine Sciences, Germany <i>Research and teaching associate (PostDoc)</i>
<b>Since 2009</b>	Max Planck Institute for Marine Microbiology, Germany <i>Guest scientist (PostDoc)</i>
<b>2004 - 2009</b>	Max Planck Institute for Marine Microbiology, Germany Australian Institute for Marine Sciences, Australia HYDRA Institute for Marine Sciences <i>Research associate (PhD)</i>
<b>2001 - 2002</b>	Alfred Wegener Institute for Marine and Polar Science, Dept. Ecophysiology & Ecotoxicology, Bremerhaven, Germany <i>Student project and lab assistant (student contracts)</i>
<b>2000</b>	University of Hamburg, Dept. Ecology, Hamburg, Germany <i>Volunteer lab assistant</i>
<b>1999</b>	University of Tübingen, Dept. Ecotoxicology, Tübingen, Germany <i>Volunteer lab assistant</i>
<b>1997 - 1998</b>	US Fish & Wildlife, French Frigate Shoals, Hawaii, USA NOAA, Honolulu, Hawaii, USA Hanauma Bay Nature Preserve, Honolulu, Hawaii, USA University of Hawaii, Marine Biology Institute Coconut island, Hawaii, USA <i>Volunteer lab and teaching assistant</i>

## Research Abroad

<b>2010</b>	Fieldtrips: R.V. Cape Ferguson, AIMS (Australia)
<b>2009</b>	Lake Toplitz project: Field trip to Lake Toplitz (Austria)
<b>2009</b>	Marsili project: R.V. Comex (France, Italy)
<b>2006</b>	EUROSPONGE project: Field trip to Cala Montgo (Spain)
<b>2004 -</b>	Coordination of own PhD project: AIMS (Australia), HYDRA (Italy) & MPI MM (Germany)

**2009**

**2002 - 2005**      6 Fieldtrips: R.V. Lady Basten or R.V. Cape Ferguson, AIMS (Australia)

**1997 - now**      Participation in various fieldwork projects: HDYRA Institute for Marine Sciences (Italy)

**Collaborations**

Max Planck Institute for Marine Microbiology      Dr. Dirk de Beer  
 Prof. Dr. Antje Boetius, Dr. Stefanie Grünke  
 Dr. Lubos Polerecky  
 Dr. Felix Janssen  
 Dr. Christian Deusner, Gunter Wegener, Thomas Holler  
 Dr. Katrin Knittel

Leibniz Institute for Baltic Sea Research      Prof. Dr. Michael Böttcher  
 Warnemünde

Alfred Wegener Institute for Polar and Marine      Prof. Dr. Tom Brey  
 Research, Helmholtz Society      Dr. Gertraud Schmidt

Leibniz Institute for Tropical Marine Ecology      Dr. Maggy Nugues

Australian Institute for Marine Sciences      Dr. Katharina Fabricius  
 Dr. Nicole Webster

**Professional Services**

Reviewer for Journals      Bulletin of Marine Sciences  
 Marine Environmental Research  
 Systematic and Applied Microbiology  
 Coral Reefs  
 Environmental Monitoring and Assessment

**Students**

Supervision: Current      Johanna Wiedling (Internship, University of Greifswald, PAGES)  
 Under- and Graduate      Nathalie Grandrille (Master, University of Oldenburg, PAGES)  
 Students      Eskil Salis Gross (Internship, High School Überlingen, PAGES)  
 Wolf Dumann (Internship, University of Bremen, PAGES)

Supervision: Previous      Johanna Wiedling (Bachelor, University of Greifswald, PAGES)  
 Under- and Graduate      Hanna Kuhfuss (Internship, University of Freiburg, PAGES)  
 Students      Maria Jähde (Internship, University of Trier, *Percon gibbesi*) Daniel  
 Wangpraseur (Bachelor, University of Bremen, Coral-Algae Interaction)  
 Duygu Sevilgen (Diplom, University of Bremen, BIOSSED)  
 Stella Nemecky (Diplom, University of Bremen, BIOSSED)

Thesis Committee member      Martin Glas (PhD, University of Bremen, BIOACID)

Consulting      Duygu Sevilgen (PhD, University of Bremen, POLMAR)

## Teaching

Since 2001 Field courses: Introduction to Marine Biology  
*HYDRA Institute for Marine Biology*

## Public Outreach

2010 Public Outreach Day: *Posidonia* Day  
*Hydra Institute for Marine Sciences (Italy) - Organisation*

2010 Public Outreach Day: Sand Day “The world in a sand pit...”  
*Hydra Institute for Marine Sciences (Italy) - Organisation*

2008 Pupils of the Ostsee-Gymnasium Timmendorfer Strand visit marine scientists at the Max Planck Institute and the MARUM  
*Max Planck Institute for Marine Microbiology & MARUM (Germany) - Organisation*

2006 Television movie: “Hope for the reef”  
*ARTE and ZDF production (Germany, France) – scientist in the movie*

2005 Open Day at the Australian Institute for Marine Sciences  
*Australian Institute for Marine Sciences (Australia) – scientist presenting an experiment*

## Publication list

- 7 **M. Weber**, D. de Beer, C. Lott, L. Polerecky, K. Kohls, R.M.M. Abed, T. Ferdelman, K. Fabricius (2010) The mechanism of coral damage by runoff sediments. (in prep)
- 6 M.-L. Schläppy, **M. Weber**, D. Mendola, F. Hoffmann, and D. de Beer (2010) Heterogeneous oxygenation resulting from active and passive flow in two Mediterranean sponges, *Dysidea avara* and *Chondrosia reniformis*. *Limnol. Oceanogr.*, 55(3), 1289-1300.
- 5 K. Kohls, R.M.M. Abed, L. Polerecky, **M. Weber**, and D. de Beer (2009) Halotaxis of cyanobacteria in an intertidal hypersaline microbial mat. *Environ. Microbiol.* 12(3):567-575.
- Not peer-reviewed **M. Weber** (2009) How sediment damages corals. PhD thesis. University of Bremen. Pp175.
- 4 L. Polerecky, C. Lott, and **M. Weber** (2008) *In situ* measurement of gross photosynthesis using a microsensor-based light-shade shift method. *Limnol. Oceanogr.: Methods* 6, 373–383.
- 3 C. Humphrey, **M. Weber**, C. Lott, T. Cooper, and K. Fabricius (2008) Effects of suspended sediments, dissolved inorganic nutrients and salinity on fertilisation and embryo development in the coral *Acropora millepora* (Ehrenberg, 1834). *Coral Reefs*, 27, 4, 837-850.
- 2 M. Weber, P. Färber, V. Meyer, C. Lott, G. Eickert, K. Fabricius, and D. de Beer (2007) *In Situ* Applications of a New Diver-Operated Motorized Microsensor Profiler. *Environmental Science & Technology*. 41(17): 6210-6215.
- 1 **M. Weber**, C. Lott, and K. Fabricius (2006) Sedimentation stress in a scleractinian coral exposed to terrestrial and marine sediments with contrasting physical, organic and geochemical properties. *Journal of Experimental Marine Biology and Ecology* 336, 18–32.

## Conferences & workshops

- 2010 2<sup>nd</sup> Workshop Research on shallow marine and fresh water systems, Milazzo, Italy (talk)
- 2009 1<sup>st</sup> Workshop Research on shallow marine and fresh water systems, Freiberg, Germany (talk)
- 2009 American Society of Limnology and Oceanography Meeting, Nizza, France (talk)
- 2008 Ocean Sciences Meeting, Orlando, USA, (poster)
- 2006 European Meeting of the International Society for Reef Studies (ISRS), Bremen, Germany (talk)
- 2005 10th European Marine Biology Symposium (EMBS), Vienna, Austria (talk: main author, represented by co-author)
- 2005 marbef workshop „Chemical Ecology“, Tjärnö, Schweden (participant)
- 2005 2nd MarTech International Workshop, Bremerhaven, Germany (talk)
- 2004 10th International Coral Reef Symposium (ICRS), Okinawa, Japan (talk)
- 2004 14th annual meeting Society of Environmental Toxicology and Chemistry (SETAC), Prague, Czech Republic (talk)

**Invitations, prices, awards, stipends**

- 2010** 3rd prize of the competition "Understandable Science 2010" of the Helmholtz-Zentrums Geesthacht
- 2009** Outstanding student presentation: American Society of Limnology and Oceanography Meeting, Nizza, France (award)
- 2009** American Society of Limnology and Oceanography Meeting, Nizza, France (invited talk)
- 2005** Max Planck Society (30 month PhD stipend)
- 2005** Great Barrier Reef Marine Park Authority, Australia (invited talk)
- 2004** German Academic Exchange Service (12 month PhD stipend)
- 2004** DFG-symposium grant (grant)
- 2003** Price for the best Diploma thesis from the "Friends of the University of Bremen" (price)
- 2002** German Academic Exchange Service (6 month Diploma stipend)

## Scuba Diving Education

- 2007 Trimix 60 M (PSS)
- 2003 Semi-closed rebreather diver (SSI)
- Since 2001 EUF certified professional scuba diving instructor\*\*\* (VDTL, cedip)

## Scuba Diving Career

- 2011-2014 ECO2 project (Italy)  
*Scientific diver at HYDRA*
- 2010 SEDCOR project (Australia)  
*Scientific diver at AIMS*
- 2010 Workshop BIOSAND, HYDRA Elba field station (Italy)  
*Scientific diving leader and coordinator*
- 2009 Lake Toplitz project (Austria)  
*Scientific diving leader and coordinator*
- 2006 EUROSPONGE project: Field trip to Cala Montgo (Spain)  
*Scientific diver*
- 2002 - 2009 Fieldwork for Diploma and Doctorate thesis (Australia)  
*Scientific diver at AIMS and HYDRA*
- 2000 National Geographic photography expedition (Antarctic Peninsula)  
*Diving and photography assistant*
- 1999 Student marine geology field course (Jamaika)  
*Participant and diving assistant*
- 1998 Student marine biology field course (Israel)  
*Participant and diving assistant*