

Curriculum vitae

Name Matthias Wietz, PhD
Date of Birth 02 October 1980
Nationality German
Affiliation Alfred Wegener Institute for Polar and Marine Research |
Max Planck Institute for Marine Microbiology
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Academic career

10/2018 – Senior Scientist, Alfred Wegener Institute for Polar and Marine Research & Max Planck Institute for Marine Microbiology (HGF-MPG Group for Deep Sea Ecology and Technology)
10/2013 – 09/2018 Temporary Principal Investigator (Institute for Chemistry and Biology of the Marine Environment, University of Oldenburg)
10/2012 – 09/2013 Postdoctoral Scientist (Scripps Institution of Oceanography, University of California San Diego)
09/2011 – 09/2012 Postdoctoral Scientist (Institute for Chemistry and Biology of the Marine Environment, University of Oldenburg)
11/2007 – 04/2011 PhD studies (Technical University of Denmark): “Global patterns of marine bacterioplankton diversity and characterization of bioactive *Vibrionaceae* isolates”
02/2008 – 06/2008 Visiting Scientist at Aarhus University (Denmark)
05/2006 – 03/2007 MSc thesis (Australian Institute of Marine Science): “Microbial communities of larval rearing systems and wild phyllosoma of the ornate rock lobster, *Panulirus ornatus*, and options for microbial management in aquaculture”

University education and additional qualifications

04/2010 PhD course “Microbial Chemistry” (Technical University of Denmark)
07/2008 – 08/2008 Internship “Arctic Microbiology” (University Centre of Svalbard, Longyearbyen, Norway)
07/2008 PhD course “Bioinformatics” (University of Copenhagen, Denmark)
02/2005 – 05/2005 Laboratory project (Max Planck Institute for Marine Microbiology, Bremen, Germany): “Impact of alkylbenzene shock on denitrifying strain EbN1”
05/2005 Internship “Marine Algae” (Biological Department Helgoland)
07/2004 – 04/2006 Student Assistantship (Prof. Ralf Rabus; Max Planck Institute for Marine Microbiology, Bremen, Germany)
10/2001 – 06/2006 Diploma studies in Biology (University of Bremen, Germany). Major subjects: Marine Biology, Genetics, Biochemistry

Awards and fellowships

- AWI Award for Science Communication (together with AWIs4Future; €2000 | 2020)
- Sequencing Grant; German Research Foundation (€30.000 | 2016)
- Temporary Principal Investigator; German Research Foundation (€177.600 | 2015)
- Conference travel grant; German Academic Exchange Service (€2000 | 2015)
- Research Scientist fellowship; University of Oldenburg (€30.000 | 2015)
- Conference travel grant; German Academic Exchange Service (€2300 | 2014)
- Temporary Principal Investigator; German Research Foundation (€172.300 | 2012)
- Postdoc stipend USA; German Academic Exchange Service (€31.320 | 2012)
- Travel grant; German Academic Exchange Service (€500 | 2006)

Academic services

- Student Presentation Evaluation Program, Ocean Sciences Meeting (2020)
- Chair of Gordon Research Seminar “Marine Molecular Ecology” (2017)
- Discussion Leader, Gordon Research Conference “Marine Molecular Ecology” (2017)
- Editor, Research Topic “Socio-Ecology of Microbes in a Changing Ocean” (2017)
- Young Ambassador, International Society for Microbial Ecology (2016–present)
- Council Member, Association of Polar Early Career Scientists (2015–2016)
- Discussion Leader, Gordon Research Seminar “Marine Molecular Ecology” (2015)
- Reviewer for French National Research Agency (ANR), National Research Council of Italy (CNR), German-Israeli Scientific Cooperation (DIP)
- Reviewer for Environ Microbiol, ISMEJ, Mol Ecol, Front Microbiol, FEMS Microbiol Ecol, Aquat Microb Ecol, Syst App Microbiol, Polar Biol, Microbiome, PLOS ONE, mSystems, Sci Rep, BMC Genomics, Marine Drugs, MicrobiologyOpen, New Biotechnol, Environ Sci Pollut Res, J Mar Sci Engin, Heliyon
- Reviewer for “Annette Barthelt Prize” (2019)

Academic networking and memberships

- ORCID: <https://orcid.org/0000-0002-9786-3026>
- GoogleScholar: <https://scholar.google.com/citations?user=pDhsWwMAAAAJ>
- ResearchGate: https://www.researchgate.net/profile/matthias_wietz
- Frontiers editorial activities: <https://loop.frontiersin.org/people/427673/editorial>
- Publons peer-review record: <https://publons.com/a/396211>
- Github bioinformatics code: <https://github.com/matthiaswietz>
- Twitter: [@MatthiasWietz](https://twitter.com/MatthiasWietz)
- International Society for Microbial Ecology (ISME)
- Association of Polar Early Career Scientists (APECS)
- Association for General and Applied Microbiology (VAAM)

Fieldwork

- Arctic Ocean/Fram Strait; RV *Polarstern* (2019)
- Biological Department Helgoland (2017)
- Pacific Ocean/New Zealand to Alaska; RV *Sonne* (2016)
- Atlantic Ocean/Chile to Germany; RV *Polarstern* (2012)
- Southern Ocean/Antarctica; RV *Polarstern* (2011)
- Arctic Ocean/North Pole; RV *Oden* (2009)
- Coral Sea; RV *Cape Ferguson* (2006)
- North Sea; RV *Heincke* (2005)

Teaching and lecturing

- Marmic practical course at MPI (2020)
- MSc lecture “Ecology of Marine Microbes” (University of Oldenburg; 2014–2018)
- BSc lecture “Biological Oceanography” (University of Oldenburg; 2016)
- MSc lecture “Scientific writing and practice” (University of Oldenburg; 2014)
- Student’s day cruise with RV Heincke, North Sea (University of Oldenburg; 2014)
- MSc course “Experimental Applied Biodiversity” (Technical University of Denmark; 2011)
- MSc course “Bacterial diversity in fresh/marine waters” (Technical University of Denmark; 2010)

Student supervision

- Matomo Niwano (2021). Prokaryotic time-series in Fram Strait.
- Jovan Kalem (2020). Virtual internship at the University of Belgrade “CAZymes in *Maribacter dokdonensis* 62-1”
- Magda Cardozo Mino (2019). PhD co-supervision “Temporal and spatial dynamics of marine microorganisms in ice-covered seas”
- Nora Germscheid (2018). MSc thesis “Ecotype- and strain-specific genomic signatures determine niche speciation in *Alteromonas macleodii*”
- Dominik Lücking (2018). student assistantship “Development of qPCR targeting unique genes for strain-level differentiation in *Alteromonas macleodii* co-cultures”
- Antoine Ng (2018). MSc thesis “Genomic and evolutionary analysis of CAZymes in *Alteromonas* sp. 76-1”
- Zain Albezra (2017). MSc project “Bioactive compounds from marine *Alteromonas* spp.”
- Mara Heinrichs (2016). MSc project “Optimization of simultaneous DNA and RNA extraction from marine filter samples”
- Nadine Gerlach (2016). MSc thesis “Alginate lyases from *Alteromonas macleodii* — biochemistry and evolution” in collaboration with Dr. Jan-Hendrik Hehemann, University of Bremen (Germany)
- Dennis Tebbe, Julius Degenhardt (2015). MSc project “Co-culturing of marine bacteria: population dynamics during alginate degradation”
- Maximilian Mitulla (2015). MSc thesis “Bacterial dynamics upon addition of alginolytic *Alteromonas macleodii* and alginate particles” in collaboration with Prof. Farooq Azam, Scripps Institution of Oceanography (USA)
- Anna Neumann (2014). MSc thesis “Utilization of alginate and other algal polysaccharides by *Alteromonas macleodii* ecotypes” in collaboration with Prof. Carol Arnosti (USA)
- Robert Strodel, Anna Moskva (2014). BSc project “Utilization of exudates from marine cyanobacteria by hydrolytic marine bacteria”
- Maximilian Mitulla (2014). BSc project “Alginate degradation by *Maribacter* sp. 62-1 from the southern Atlantic Ocean”
- Martin Mierzejewski (2013). BSc project “Growth characteristics of polymer-degrading marine bacteria from the Southern and Atlantic Oceans”
- Kamilla Spanggaard, Anja Sander (2010). MSc thesis “Influence of bioactive marine bacteria on *Listeria monocytogenes* virulence”
- Sine Fredslund (2010). MSc thesis “Isolation and characterization of bioactive bacteria from Arctic marine environments”

Public outreach

- Core team member of *AWIs4Future* (regional group of Scientists4Future at AWI)
- Co-host of “[Wissenschaft fürs Wohnzimmer](#)” (science outreach livestreams on YouTube), with own presentation on ecological time-series in the Arctic (<https://youtu.be/QIDuazQWN48>)
- AWI “Coffee Break” on Instagram

- Science communication with Radio Bremen, newspapers (*Weser-Kurier*, *Nordseezeitung*) and online portals (wissenschaftskommunikation.de)
- Broadcasting collaborative *frost flower* research in the Arctic Ocean; featured in *National Geographic Magazine*, *Illustreret Videnskab* and other media
- Presentation of institutional research to the general public ("Ocean's Day" at University of Oldenburg, 2015)
- Introduction to ship-based research for high-school students on RV *Polarstern* (2012)

National and international collaborations

- Alfred Wegener Institute (Germany); Katja Metfies, Wilken-Jon von Appen, Sinhue Torres-Valdes, Morten Iversen, Ilka Peeken, Moritz Holtappels, Gesine Mollenhauer
- HIFMB / University of Oldenburg (Germany); Meinhard Simon, Carina Bunse
- Scripps Institution of Oceanography (USA); Jeff Bowman, Farooq Azam, Paul Jensen
- University of North Carolina (USA); Carol Arnosti
- University of Bremen (Germany); Jan-Hendrik Hehemann
- ICBM-MPI Bridging Group for Marine Geochemistry (Germany); Thorsten Dittmar
- University of Greifswald (Germany); Thomas Schweder
- University of New South Wales (Australia); Peter Steinberg
- Institute of Marine Sciences (Spain); Silvia Acinas
- DSMZ (Germany); Heike Freese, Richard Hahnke
- University of Göttingen (Germany); Rolf Daniel, Bernd Wemheuer

Invited presentations

- University of Tromsø (2019)
- MIMAS2 Symposium "Microbial Interactions in Marine Systems", Greifswald (2018)
- GEOMAR Helmholtz Centre for Marine Research, Kiel (2018)
- Workshop "New Perspectives on the Biogeochemistry of Marine Polysaccharides", Hanse-Wissenschaftskolleg Delmenhorst (2016)
- Young Investigator Session, Gordon Conference "Marine Molecular Ecology" (2015)
- Max Planck Institute for Marine Microbiology Bremen (2015)
- Technical University of Denmark (2014)

Publications

Citations: 1033 | h-index: 15 | i10-index: 17 (as of July 2021)

* Supervised students

Peer-reviewed articles

Arnosti C, **Wietz M**, Brinkhoff T, Hehemann JH, Probandt D, Zeugner L, Amann R (2021). The biogeochemistry of marine polysaccharides: sources, inventories, and bacterial drivers of the carbohydrate cycle. *Annu. Rev. Mar. Sci.* 13:81–108. [doi: 10.1146/annurev-marine-032020-012810](https://doi.org/10.1146/annurev-marine-032020-012810)

Fadeev E, **Wietz M**, von Appen W-J, Iversen MH, Nöthig E-M, Engel A, Grosse J, Graeve M, Boetius A (2021). Submesoscale physicochemical dynamics directly shape bacterioplankton community structure in space and time. *Limnol. Oceanogr.* 66:2901–2913. [doi: 10.1002/lno.11799](https://doi.org/10.1002/lno.11799)

Bunse C, Koch H, Breider S, Simon M, **Wietz M** (2021). Sweet spheres: Succession and CAZyme expression of marine bacterial communities colonizing a mix of alginate and pectin particles. *Environ. Microbiol.* 23:3130–3148. [doi: 10.1111/1462-2920.15536](https://doi.org/10.1111/1462-2920.15536)

- Wolter LA*, Mitulla M, Kalem J, Daniel R, Simon M, **Wietz M** (2021). CAZymes in *Maribacter dokdonensis* 62-1 from the Patagonian shelf: Genomics and physiology compared to related flavobacteria and a co-occurring *Alteromonas* strain. *Front. Microbiol.* 12:628055. doi: [10.3389/fmicb.2021.628055](https://doi.org/10.3389/fmicb.2021.628055)
- Wolter LA*, **Wietz M**, Ziesche L, Breider S, Leinberger J, Poehlein A, Daniel R, Schulz S, Brinkhoff T (2021). *Pseudoceanicola algae* sp. nov., isolated from the marine macroalga *Fucus spiralis*, shows genomic and physiological adaptations for an algae-associated lifestyle. *Syst. Appl. Microbiol.* 44:126166. doi: [10.1016/j.syapm.2020.126166](https://doi.org/10.1016/j.syapm.2020.126166)
- Koch H, Germscheid N*, Freese HM, Noriega-Ortega B, Lücking D*, Berger M, Qiu G, Marzinelli EM, Campbell AH, Steinberg PD, Overmann J, Dittmar T, Simon M, **Wietz M** (2020). Genomic, metabolic and phenotypic variability shapes ecological differentiation and intraspecies interactions of *Alteromonas macleodii*. *Sci. Rep.* 10:809. doi: [10.1038/s41598-020-57526-5](https://doi.org/10.1038/s41598-020-57526-5)
- Wietz M**, Lau SC, Harder T (2019). Editorial: Socio-ecology of microbes in a changing ocean. *Front. Mar. Sci.* 6:190. doi: [10.3389/fmars.2019.00190](https://doi.org/10.3389/fmars.2019.00190)
- Koch H, Freese HM, Hahnke RL, Simon M, **Wietz M** (2019). Adaptations of *Alteromonas* sp. 76-1 to polysaccharide degradation: A CAZyme plasmid for ulvan degradation and two alginolytic systems. *Front. Microbiol.* 10:504. doi: [10.3389/fmicb.2019.00504](https://doi.org/10.3389/fmicb.2019.00504)
- Koch H, Dürwald A, Schweder T, Noriega-Ortega B, Vidal-Melgosa S, Hehemann JH, Dittmar T, Freese HM, Becher D, Simon M, **Wietz M** (2019). Biphasic cellular adaptations and ecological implications of *Alteromonas macleodii* degrading a mixture of algal polysaccharides. *ISME J.* 13:92–103. doi: [10.1038/s41396-018-0252-4](https://doi.org/10.1038/s41396-018-0252-4)
- Bakenhus I*, Dlugosch L, Giebel HA, Beardsley C, Simon M, **Wietz M** (2018). Distinct biogeographic patterns of bacterioplankton composition and single-cell activity between the subtropics and Antarctica. *Environ. Microbiol.* 20:3100–3108. doi: [10.1111/1462-2920.14383](https://doi.org/10.1111/1462-2920.14383)
- Klotz F, Brinkhoff T, Freese HM, **Wietz M**, Teske A, Simon M, Giebel HA (2018). Description of *Tritonibacter horizontalis* gen. nov., sp. nov., a new member of the *Rhodobacteraceae*, isolated from the Deepwater Horizon oil spill. *Int. J. Syst. Evol. Microbiol.* 68:736–744. doi: [10.1099/ijsem.0.002573](https://doi.org/10.1099/ijsem.0.002573)
- Mitulla M*, Dinasquet J, Guillemette R, Simon M, Azam F, **Wietz M**. (2016). Response of bacterial communities from California coastal waters to algal particles and an alginolytic *Alteromonas macleodii* strain. *Environ. Microbiol.* 18:4369–4377. doi: [10.1111/1462-2920.13314](https://doi.org/10.1111/1462-2920.13314)
- Neumann A*, Balmonte JP, Berger M, Giebel HA, Arnosti C, Voget S, Brinkhoff T, Simon M, **Wietz M** (2015). Different utilization of alginate and other algal polysaccharides by marine *Alteromonas macleodii* ecotypes. *Environ. Microbiol.* 17:3857–3868. doi: [10.1111/1462-2920.12862](https://doi.org/10.1111/1462-2920.12862)
- Wietz M**, Wemheuer B, Simon H, Giebel HA, Seibt MA, Daniel R, Brinkhoff T, Simon M (2015). Bacterial community dynamics during polysaccharide degradation at contrasting sites in the Southern and Atlantic Oceans. *Environ. Microbiol.* 17:3822–3831. doi: [10.1111/1462-2920.12842](https://doi.org/10.1111/1462-2920.12842)
- Wietz M**, Millán-Aguiñaga N, Jensen PR (2014) CRISPR-Cas systems in the marine actinomycete *Salinispora*: linkages with phage defense, microdiversity and biogeography. *BMC Genomics* 9:536. doi: [10.1186/1471-2164-15-936](https://doi.org/10.1186/1471-2164-15-936)
- Ziemert N, Lechner A, **Wietz M**, Millán-Aguiñaga N, Chavarria KL, Jensen PR (2014). Diversity and evolution of secondary metabolism in the marine actinomycete genus *Salinispora*. *Proc. Natl. Acad. Sci. USA* 111:E1130–1139. doi: [10.1073/pnas.1324161111](https://doi.org/10.1073/pnas.1324161111)

Wietz M, Duncan K, Patin NV, Jensen PR (2013). Antagonistic interactions mediated by marine bacteria: the role of small molecules. *J. Chem. Ecol.* 9:879–891. doi: [10.1007/s10886-013-0316-x](https://doi.org/10.1007/s10886-013-0316-x)

Wietz M, Månsson M, Vynne NG, Gram L (2013). Small-Molecule Antibiotics from Marine Bacteria and Strategies to Prevent Rediscovery of Known Compounds. In “Marine Microbiology: Bioactive Compounds and Biotechnological Applications” (Ed. Se-Kwon Kim), Wiley-VCH, Weinheim. doi: [10.1002/9783527665259.ch08](https://doi.org/10.1002/9783527665259.ch08)

Nielsen A, Månsson M, **Wietz M**, Varming AN, Phipps RK, Larsen TO, Gram L, Ingmer H (2012). Nigribactin, a novel siderophore from *Vibrio nigripulchritudo*, modulates *Staphylococcus aureus* virulence gene expression. *Mar. Drugs* 10:2584–2595. doi: [10.3390/md10112584](https://doi.org/10.3390/md10112584)

Wietz M, Månsson M, Bowman JS, Blom N, Ng Y, Gram L (2012). Wide distribution of closely related, antibiotic-producing *Arthrobacter* strains throughout the Arctic Ocean. *Appl. Environ. Microbiol.* 78:2039–2042. doi: [10.1128/AEM.07096-11](https://doi.org/10.1128/AEM.07096-11)

Wietz M, Månsson M, Gram L (2011). Chitin stimulates production of the antibiotic andrimid in a *Vibrio coralliilyticus* strain. *Environ. Microbiol. Rep.* 3:559–564. doi: [10.1111/j.1758-2229.2011.00259.x](https://doi.org/10.1111/j.1758-2229.2011.00259.x)

Månsson M, Nielsen A, Kjaerulff L, Gotfredsen C, **Wietz M**, Ingmer H, Gram L, Larsen TO (2011). Inhibition of virulence gene expression in *Staphylococcus aureus* by novel depsipeptides from a marine *Photobacterium*. *Mar. Drugs* 9:2537–2552. doi: [10.3390/md9122537](https://doi.org/10.3390/md9122537)

Wietz M, Gram L, Jørgensen B, Schramm A (2010). Latitudinal patterns in the abundance of major marine bacterioplankton groups. *Aquat. Microb. Ecol.* 61:179–189. doi: [10.3354/ame01443](https://doi.org/10.3354/ame01443)

Wietz M, Månsson M, Gotfredsen C, Larsen TO, Gram L (2010). Antibacterial compounds from marine *Vibrionaceae* isolated on a global expedition. *Mar. Drugs* 8:2946–2960. doi: [10.3390/md8122946](https://doi.org/10.3390/md8122946)

Wietz M, Hall MR, Høj L (2009). Effects of seawater ozonation on biofilm development in aquaculture tanks. *Syst. Appl. Microbiol.* 32:266–277. doi: [10.1016/j.syapm.2009.04.001](https://doi.org/10.1016/j.syapm.2009.04.001)

Payne MS, Høj L, **Wietz M**, Hall MR, Sly L, Bourne DG (2008). Microbial diversity of mid-stage Palinurid phyllosoma from Great Barrier Reef waters. *J. Appl. Microbiol.* 105:340–350. doi: [10.1111/j.1365-2672.2008.03749.x](https://doi.org/10.1111/j.1365-2672.2008.03749.x)

Manuscripts in review

Wietz et al. The Polar Night shift of Microbial Communities in the Arctic Ocean revealed by autonomous sampling. *ISME Comm.* preprint doi: [10.1101/2021.04.08.436999](https://doi.org/10.1101/2021.04.08.436999)

von Jackowski, ..., **Wietz**, ... et al. Contrasting microbial communities and substrate regimes in the eastern Fram Strait between summer and fall. *Environ. Microbiol.*

von Appen, ..., **Wietz**, ... et al. Sea-ice derived meltwater stratification slows the biological carbon pump: results from continuous observations. *Nature Comm.*

Conference contributions

Wietz M, Bienhold C, Metfies K, von Appen W-J, Torres-Valdes S, Boetius A (2021). Recurrent patterns of microbial seasonality in the Arctic Ocean revealed by autonomous sampling. Oral presentation, ASLO Aquatic Sciences Meeting (online event)

Wietz M, Metfies K, von Appen W-J, Torres-Valdes S, Cardozo M, Bienhold C, Boetius A (2020). Year-round Microbial Community Dynamics in the Arctic Ocean (Fram Strait; LTER Hausgarten). Oral presentation, Ocean Sciences Meeting, San Diego, USA.

von Appen W-J, Bergmann M, Bienhold C, Bracher A, Iversen MH, Metfies K, Niehoff B, Nöthig E-M, Purser A, Salter I, Torres-Valdes S, Wenzhöfer F, **Wietz M**, Boetius A (2020). The seasonal cycle of physical, biogeochemical and biological properties in the marginal ice zone in the Fram Strait: differences in sea ice conditions during the growth phase lead to different carbon production and export patterns. Oral presentation, Ocean Sciences Meeting, San Diego, USA.

Janssen F, Bienhold C, Bergmann M, Boetius A, Bracher A, Iversen MH, Kanzow T, Liu Y, Löbl M, Metfies K, Niehoff B, Nöthig E-M, Purser A, Soltwedel T, Torres-Valdes S, von Appen W-J, Wenzhöfer F, **Wietz M**, FRAM (2019). Observing infrastructure FRAM: Year-round multidisciplinary and multi-platform observations to understand global change effects in Arctic ecosystems. Poster, OceanObs'19, Honolulu, USA.

Janssen F, Buttigieg P, Metfies K, Mowlem M, Robidart J, Salter I, **Wietz M**, Wolf C (2019). Building capacities for 'omics' observations in the ocean at high spatiotemporal resolution. Poster, EGU General Assembly, Vienna, Austria.

Wietz M, Koch H, Dürwald A, Schweder T, Simon M (2018). Bacterial adaptations to the degradation of algal polysaccharide mixtures on cellular and community level. Oral presentation, MIMAS2 Symposium "Microbial Interactions in Marine Systems", Greifswald, Germany.

Wietz M, Koch H, Dürwald A, Schweder T, Simon M (2017). Succession of proteomic, transcriptomic and exometabolomic signatures in *Alteromonas macleodii* degrading a mix of macroalgal polysaccharides. Oral presentation, 15th Symposium on Aquatic Microbial Ecology (SAME15), Zagreb, Croatia.

Wietz M, Koch H, Dürwald A, Schweder T, Simon M (2017). Succession of proteomic, transcriptomic and exometabolomic signatures in *Alteromonas macleodii* degrading a mix of macroalgal polysaccharides. Poster, Gordon Research Conference "Marine Molecular Ecology", Hong Kong, China.

Wietz M, Koch H, Balmonte JP, Arnosti C, Hehemann JH, Degenhardt J, Mitulla M, Azam F, Simon M (2016). Degradation of macroalgal polysaccharides by marine bacteria: ecophysiology, genetics, and role in bacteria-algae interactions. Poster, 16th Symposium of the International Society for Microbial Ecology (ISME16), Montreal, Canada.

Bakenhus I, Giebel HA, Beardsley C, **Wietz M**, Simon M (2016). Bacterioplankton biogeography and activity patterns in the Southern Ocean. Oral presentation, ISME16, Montreal, Canada.

Wietz M, Mitulla M, Dinasquet J, Guillemette R, Neumann A, Bakenhus I, Simon M, Azam F (2015). Alginate degradation by marine bacterial assemblages and a model alginolytic *Alteromonas macleodii* strain. Oral presentation, Gordon Research Conference "Marine Molecular Ecology", Hong Kong, China.

Wietz M, Neumann A, Balmonte JP, Berger M, Arnosti C, Voget S, Brinkhoff T, Simon M (2015). Different utilization of alginate among marine *Alteromonas macleodii* ecotypes indicates ecological speciation. Oral presentation, Annual Meeting of the Association for General and Applied Microbiology (VAAM), Marburg, Germany.

Bakenhus I, Giebel HA, **Wietz M**, Simon M (2015). Bacterioplankton community composition and activity patterns across a latitudinal transect from Antarctica (70°S) to the North Atlantic (47°N). Oral presentation, 14th Symposium on Aquatic Microbial Ecology (SAME14), Uppsala, Sweden.

Wietz M, Wemheuer B, Simon H, Giebel HA, Seibt MA, Daniel R, Mitulla M, Neumann A, Brinkhoff T, Simon M (2014). Community-level, physiological and genomic characterization of polysaccharide degradation by bacterioplankton from the Southern and Atlantic Oceans. Poster, 15th Symposium of the International Society for Microbial Ecology (ISME15), Seoul, South Korea.

Wietz M, Wemheuer B, Simon H, Giebel HA, Seibt MA, Daniel R, Brinkhoff T, Simon M (2014). Community-level, physiological and genomic characterization of polysaccharide degradation by bacterioplankton from the Southern and Atlantic Oceans. Poster, Gordon Research Conference "Marine Microbes", Bentley, USA.

Wietz M, Ziemert N, Lechner A, Millán-Aguiñaga N, Chavarria KL, Jensen PR (2014). *Salinispora* genomic islands are hotspots for biosynthetic pathways and mobile genetic elements. Poster, Gordon Research Conference "Marine Natural Products", Ventura, USA.

Wietz M, Brinkhoff T, Simon M (2013). Response of bacterioplankton communities from the Southern and Atlantic Oceans to polymeric carbohydrates. Poster, Gordon Research Seminar "Polar Marine Science", Ventura, USA.

Månsson M, Vynne NG, **Wietz M**, Gram L, Nielsen KF, Larsen TO (2011). Screening and dereplication of microbial natural products extracts. Poster, The American Society of Pharmacognosy Annual Meeting, San Diego, USA.

Månsson M, **Wietz M**, Gram L, Larsen TO (2011). Marine *Vibrionaceae* as a source of bioactive natural products. Oral presentation, The 7th European Conference on Marine Natural Products, Strömstad, Sweden.

Wietz M, Månsson M, Bernbom N, Ng YY, Gram L (2010). Bioactive bacteria from Arctic marine environments. Poster, 13th Symposium of the International Society for Microbial Ecology (ISME13), Seattle, USA.

Wietz M, Hall MR, Høj L (2008). Effect of seawater ozonation on development and composition of biofilms within aquaculture rearing tanks. Poster, 12th Symposium of the International Society for Microbial Ecology (ISME12), Cairns, Australia.

Høj L, Payne MS, **Wietz M**, Hall MR, Sly L, Bourne DG (2008). Microbial diversity of mid-stage Palinurid phyllosoma from Great Barrier Reef waters. Oral presentation, ISME12, Cairns, Australia.

Goulden E, Hall MR, Bourne DG, **Wietz M**, Pereg-Gerk L, Høj L (2008). Development of probiotics for use in larval rearing systems of the tropical rock lobster *Panulirus ornatus*. Poster, ISME12, Cairns, Australia.

Other publications

Wietz M with AWIs4Future (2020). Polar Gardening im AWI Hausgarten - Ökosystem Arktis im Wandel. Public outreach presentation on „Wissenschaft fürs Wohnzimmer“. <https://youtu.be/QIDuazQWN48>

Beardsley C, Giebel H, Kürzel B, Osterholz H, Rackebrandt S, Remke T, Seibt M, **Wietz M**, Wurst M, Engelhaupt M, Vollmers J, Daniel R, Dittmar T, Simon M (2012). The *Roseobacter* clade and dissolved organic matter composition in the Atlantic sector of the Southern Ocean. In "The Expedition of the Research Vessel Polarstern to the Antarctic in 2011/12 (ANT-XXVIII/2)"; Reports on Polar and Marine Research. [doi: 10.2312/BzPM_0646_2012](https://doi.org/10.2312/BzPM_0646_2012)

Simon M, Billerbeck S, Gavrillov A, Giebel HA, Rackebrandt S, Remke T, Stumm M, Seibt M, Ungermann R, Vollmers J, Wagner-Döbler I, Wang H, **Wietz M**, Wurst M (2012). Composition and activity of the bacterioplankton communities in a south-north transect of the Atlantic Ocean with a special emphasis on the *Roseobacter* clade and dissolved organic matter. In "The Expedition of the Research Vessel Polarstern to the Antarctic in 2012 (ANT-XXVIII/5)"; Reports on Polar and Marine Research. [doi: 10.2312/BzPM_0654_2012](https://doi.org/10.2312/BzPM_0654_2012)