

Taylor Priest

Age: 30
Email: tpriest@ethz.ch
Telephone: +33782441488
Nationality: UK
ORCID: 0000-0003-4173-8354



Education & professional training

July 2023 – Present; Postdoctoral researcher,
Institute of Microbiology, ETH Zurich, Zurich, Switzerland

December 2022 – June 2023; Postdoctoral researcher,
Max Planck Institute for Marine Microbiology/University of Bremen, Bremen, Germany

April 2019 – December 2022; PhD in Marine Microbial Ecology,
Max Planck Institute for Marine Microbiology/University of Bremen, Bremen, Germany

Thesis title:

'Molecular ecological characterization of high-latitude bacterioplankton'

- Thesis supervised by PD. Dr. Bernhard M. Fuchs

October 2017 – March 2019; MSc Marine Microbiology

Max Planck Institute for Marine Microbiology/University of Bremen, Bremen, Germany

Thesis title:

'Investigating fungal community dynamics through a coastal spring algal bloom'

September 2014 – July 2017; BSc Marine Biology & Oceanography

Plymouth University, Plymouth, UK

Awards

- **MARMIC teaching excellence award.** International Max Planck Research School for Marine Microbiology. 2021 – 2022.
- **FEMS Microbiology Ecology lecture prize.** 9th International conference on polar and alpine microbiology, Potsdam, Germany, 2022

Publications

Priest, T., Vidal-Melgosa, S., Hehemann, J.-H., Amann, R., Fuchs, B., (2023). Spatial heterogeneity in carbohydrates and their utilisation by microbial communities in the high North Atlantic. *BioRxiv*. <https://doi.org/10.1101/2023.05.11.540373> (Under review in *ISME Comms*).

Priest, T., Von Appen, J.-W., Oldenburg, E., Popa, Ovidiu, Torres-Valdés, S., Bienhold, C., Metfies, K., Fuchs, B. M., Amann, R., Boetius, A., Wietz, M., (2022). Variations in Atlantic water influx and sea ice cover drive taxonomic and functional shifts in Arctic marine bacterial communities. *ISME J.* <https://doi.org/10.1038/s41396-023-01461-6>

Dede, B., **Priest, T.**, Bach, W., Amann, R., Walter, M., Meyerdieks, A., (2022). High abundance of hydrocarbon-degrading *Alcanivorax* in plumes of hydrothermally active volcanoes in the South Pacific Ocean. *ISME J.* <https://doi.org/10.1038/s41396-023-01366-4>

Vidal-Melgosa, S., Lagator, M., Sichert, A., **Priest, T.**, Pätzold, J., Hehemann, J.-H., (2022). Not digested: algal glycans move carbon dioxide into the deep-sea. *BioXriv.* <https://doi.org/10.1101/2022.03.04.483023> (*Under review in PNAS*)

Priest, T., Heins, A., Harder, J., Amann, R., Fuchs, B. M., (2022). Niche partitioning of the ubiquitous and ecologically relevant NS5 marine group. *ISME J.* <https://doi.org/10.1038/s41396-022-01209-8>

Priest, T., Orellana, L. H., Huettel, B., Fuchs, B. M., Amann, R., (2021). Microbial metagenome-assembled genomes of the Fram Strait from short and long read sequencing platforms. *PeerJ.* 9:e11721. <https://doi.org/10.7717/peerj.11721>

Priest, T., Fuchs, B., Amann, R., Reich, M., (2021). Diversity and biomass dynamics of unicellular marine fungi during a spring phytoplankton bloom. *Env. Microbiol.* 23(1):448-463. <https://doi.org/10.1111/1462-2920.15331>

Presentation of research

- **Invited speaker:** PacBio Day (2022). Wageningen University, Wageningen, Netherlands.
- **Poster:** ISME18 Conference (2022), Lausanne, Switzerland
- **Speaker:** Polar Microbes Symposium (2022), Tvärminne, Finland
- **Speaker:** International Conference of Polar and Alpine Microbiology (2022), Potsdam, Germany
- **Invited speaker:** Seminar at University of Oldenburg (2022). Oldenburg, Germany
- **Invited speaker:** Virtual PacBio day at EMBL (2022)
- **Invited speaker:** PacBio Global Virtual User Meeting (2021)
- **Poster:** Annual Conference of the Association for General and Applied Microbiology (2019), Mainz, Germany

Academic supervision

- **MSc thesis;** Yueqing Wang (September 2022 – March 2023, Max Planck Institute for Marine Microbiology)
- **MSc short-term research projects;** Yueqing Wang (May – July 2022), Alba Porta-Fidalgo (March – May 2021), Dennis Jakob (March – May 2020), Rodrigo Hernández-Velázquez (March – May 2020), Mikayla Clark (May – June 2020)

References

PD. Dr. Bernhard M. Fuchs, Group leader in Molecular Microbial Ecology, Max Planck Institute for Marine Microbiology
Prof. Dr. Rudolf Amann, Director of Molecular Ecology Department, Max Planck Institute for Marine Microbiology
Dr. Michael Fritz, Permafrost Scientist, Alfred-Wegener-Institute