Jena School for Microbial Communication
Graduate School of Excellence

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Title PhD Project: Targeted "fishing" for microbial interaction partners

Main Research Interests

- Cultivation of so far uncultured microorganisms
- Metagenomics
- Amplicon data analysis
- Comparative genomics
- Statistical data analysis

Methodological Experiences

- DNA-Isolation techniques (Short Godon, Kit systems, Quick and Dirty, etc.)
- Various types of PCR's (Colony, Multiplex etc.)
- Agarose-Gel electrophoresis including handling of a GelDoc Imaging System
- Cultivation of bacteria (aerobic and anaerobic bacteria, anaerobic cabinet and Hungate, handling)
- Identification and Characterisation of bacteria (MALDI, 16S rRNA gene sequencing, BIOLOG assays, MIC)
- Experience with both, Windows and Linux based systems including command line
- Expertise in using the anvi'o bioinformatics suite of tools for genomic analysis
- Familiar with Python and R

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Curriculum Vitae

- Ph.D *Aquatic Geomicrobiology* (2021-recent), Friedrich Schiller University Jena

- M.S. *Biotechnology* (2018 - 2020), RWTH Aachen University

  Thesis title: "Strain Level Diversity of *Bacteroides* Between Different Host Species"

  Supervision by **Prof. Dr. Thomas Clavel** | Functional Microbiome Research Group, Institute of Medical Microbiology at RWTH Aachen University Hospital

- B.S. *Biotechnology* (2014 - 2018), FH Aachen Campus Jülich

  Thesis title: "Establishment of a Multiplex PCR Method for the Detection of *smeZ* in *Streptococcus pyogenes*"

  Supervision by **PD Dr. Mark van der Linden** | National Reference Laboratory (NRZ) on Streptococcal Diseases, Institute of Medical Microbiology at RWTH Aachen University Hospital

Publications

Non-peer-reviewed articles, conference abstracts, theses

- Bisdorf, K. (2020) Strain-Level Diversity of *Bacteroides* Between Different Host Species. Master Thesis, RWTH Aachen, 84