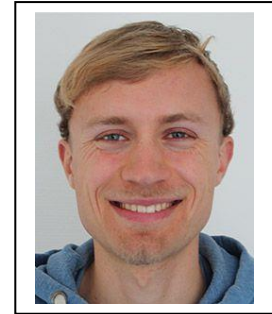


Friedrich Johannes Ehinger

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Title PhD Project:

Non-canonical diversification strategies of nonribosomal peptides in bacteria

Main Research Interests

- Elucidation of natural product biosynthesis pathways
- Determination of the biosynthetic routes yielding rare natural product building blocks
- Enzyme engineering for derivatization of natural products

Methodological Experiences

- Genetic engineering (vector-based, genome-targeted via CRISPR/Cas)
- Bioinformatics-assisted enzyme engineering and activity screening
- Analytical chemistry (HPLC, LC-MS)

Curriculum Vitae

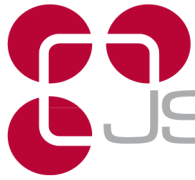
2021-today: PhD studies Natural Product Chemistry
(Leibniz Institute for Natural Products and Infection Biology, Department Biomolecular Chemistry; Prof. Dr. C. Hertweck)

2020-2021: Overgraduate advisor to iGEM Bonn-Rheinbach (student research group)

2019-2021: M.Sc. Microbiology (University of Bonn/Germany)
Focus program: Enzyme biotechnology
Overall grade: 1.0 (excellent)

2019: Award: Best graduation in B.Sc. BioGeoSciences (2019)
Award of the faculty (category B.Sc.) for best graduation thesis

2016-2019: B.Sc. BioGeoSciences (University of Koblenz-Landau/Germany)
Focus program: Microbiology
Overall grade: 1.1 (excellent)



Publications

Theses

- Ehinger, F. (2021): Development of a continuous activity assay for novel sucrases and its application for the evaluation of newly engineered sucrose-producing *Escherichia coli* strains. Master Thesis, University of Bonn, 143 pp.
- Ehinger, F. (2019): Denitrification in ground water: Evaluation of substrate stimulation and molecular biological detection methods. Bachelor Thesis, University of Koblenz-Landau, 130 pp.