



Der Vorsitzende des Promotionsausschusses

EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Herr M. Sc. Patrick Alexander Haack

Mikrobielle Naturstoffe
(Prof. Dr. Rolf Müller)

am

Freitag, 26. April 2024, 15:00 Uhr s.t.

per Videokonferenz; Link für MS Teams: <https://hips.saarland/promotion>
Raum für die Prüfung: Gebäude E8.1 (HIPS), SR 0.27, EG

Thema der Dissertation:

Comprehensive Mining of Underexplored Microbes as a Potent Driver for Natural Product Discovery

Microbial natural products have proven to be an important source for pharmaceutically relevant substances. This thesis describes the identification of two bioactive molecules from bacteria as well as a comparative study of cultivation conditions and analytical setups. A family of thiazoline- and thiazole-rich depsipeptides, with potent activity against RNA-viruses, the thiamyxins, was isolated from the *Myxococcaceae* strain MCy9487. Sesbanimide R, a compound with good activity against human carcinoma cells was isolated from *Magnetospirillum gryphiswaldense* and is the first NP to be isolated from magnetotactic bacteria. Finally, through the comparative study in this work, we were able to show, that expanding cultivation conditions and analytical setups can significantly increase the potential of discovering new secondary metabolites.

Saarbrücken, 12. April 2024

Prof. Dr. Uli Kazmaier