



Der Vorsitzende des Promotionsausschusses

EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Herr M.Sc. Daan Willocx
Wirkstoffdesign und Optimierung
(Prof. Dr. Anna K. H. Hirsch)

am

Dienstag, 11. Juni 2024, 16:00 Uhr s.t.

per Videokonferenz; Link für MS Teams:

<https://teams.live.com/join/9483559386345?p=ahaczpwqpcmvJfLIQI>

Raum für die Prüfung: Campus E8 1 (HIPS), Seminar Raum 0.27

Thema der Dissertation:

Combating antimicrobial resistance by targeting underexplored pathways

With antimicrobial resistance reaching alarming levels in recent years, there is an urgent need for the development of novel anti-infectives featuring underexplored modes of action. Both the methyl-D-erythritol phosphate (MEP) pathway and the ECF transporters emerge as promising candidates in this endeavor due to their widespread presence across pathogens, essentiality for pathogen survival, and absence in human cells. Within this dissertation, we shed light onto three new classes of inhibitors targeting either IspD, the third enzyme in the MEP pathway, or the ECF transporters. We disclose their discovery, structure-activity relationship (SAR) study, and subsequent biological profiling.

Saarbrücken, 28. Mai 2024

Prof. Dr. Uli Kazmaier