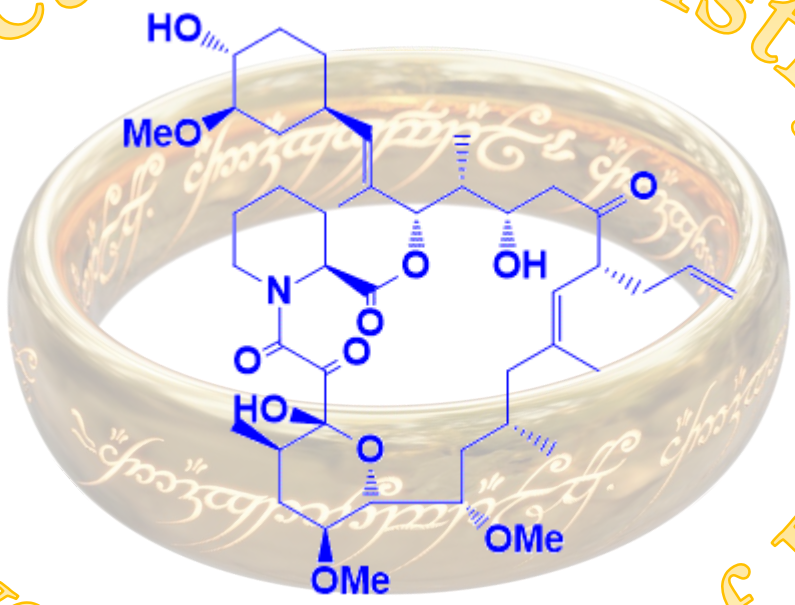
Circular Chemistry



Discover the Magic of Rings

Topic: Structure-based medicinal chemistry for FKBP51

Aim: Structure-guided design and synthesis of macrocyclic FK506 analogs using state-of-the-art organic synthesis tailored to selective inhibition of the FK506-binding protein 51 (FKBP51), a key target for depression, obesity and chronic pain.

Where: Technical University Darmstadt, Institute of Organic Chemistry and Biochemistry

Suited for: Organic chemists with an interest in biologiy and ambition to get experience in medicinal chemistry and drug discovery

Requirements: PhD in organic chemistry

We offer: Training in cutting-edge drug discovery techniques and dedicated mentoring in an interdisciplinary and lively group. The project is scheduled for 2 years and paid according to E13 salary.

Literature: Voll et al., Angew Chem Int Ed 2021, 10.1002/anie.202017352
Bauder et al., J Med Chem 2021, 10.1021/acs.jmedchem.0c02195
Kolos et al., Chem Sci 2021, 12, 14758–14765. doi: 10.1039/d1sc04638a

Mentor & further infos: Prof. Felix Hausch, felix.hausch@tu-darmstadt.de, https://www.chemie.tu-darmstadt.de/hausch/rg_hausch/index.en.jsp