Specialised screening site

Target- and cell-based antimicrobial assay development and screening, incl. biofilm, advanced 3D and host-pathogen co-culture models

Computational and in vitro ADMET profiling

Development of tailored assays e.g. for novel materials

Expertise on utilizing natural products in screening

Organotypic cell models, cellular and vesicular drug transport assays and predictive pharmacokinetic models

Expertise in antimicrobial screening, assay development, and miniaturization

Biosafety level 1 and 2 microbiology and cell culture facilities

Platform designed for antimicrobial screening workflows and follow-up assays

Expertise in natural product discovery

Predictive computational ADMET models

Chem-/bioinformatics resources, access to supercomputing facilities

Projects past and present

2020 | SPRINGBOARD for excellence in advanced development of antibacterials

2019 | NO-ESCAPE Evolving the next generation of Gram-negative antimicrobials through a synergetic approach encompassing medicinal chemistry, microbiology and nanomedicine tools

2019 | RESET-ME Restoring E. coli sensitivity for antibiotics by blocking TolC-mediated efflux

Our science in selected publications

Ocular barriers to retinal delivery of intravitreal liposomes: Impact of vitreoretinal interface

Binding Site Interactions of Modulators of Breast Cancer Resistance Protein, Multidrug Resistance-Associated Protein 2, and P-Glycoprotein Activity

Defining conditions for biofilm inhibition and eradication assays for Gram-positive clinical reference strains

A New Cell-Based At-2-Mediated Quorum Sensing Interference Assay in Screening of LsrK-Targeted Inhibitors

Further info and site-contact

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