

UniCat Colloquium

PROF. DR. BERT VAN DEN BERG

Institute for Cell and Molecular Biosciences, Newcastle University

Understanding antibiotic permeation through bacterial outer membrane channels

The emergence of multidrug resistant bacterial strains has the potential to create a global health crisis. Novel antibiotics are urgently needed but this need is currently unmet by the pharmaceutical industry, due to high costs and risks of failure of a drug to make it to market. These problems are in large part caused by a lack of basic knowledge concerning how drugs enter and exit bacteria.

The problem of influx is especially severe for Gram-negative bacteria due to the presence of an outer membrane (OM) that forms an additional, highly effective barrier against small-molecule permeation. In my presentation I will discuss examples of OM proteins that form natural channels for the diffusion of small molecules and how we could take advantage of those channels to aid the design of future antibiotics with improved permeation properties.

THIS TALK HAS BEEN CANCELLED

Wednesday, February 01, 2017 at 5:15 PM

TU Berlin, Institute of Chemistry
Straße des 17. Juni 115, 10623 Berlin

Building C, Lecture Hall C 264

Prof. Dr. Süßmuth (TUB)

Organizer

Coffee and cake will be served 30 minutes before the lecture. Guests are cordially invited to attend!
Prof. Dr. Matthias Driess - Chair of the Cluster of Excellence UniCat - www.unicat.tu-berlin.de