

Collaborations within the DK

R. Breinbauer

Development of inhibitors for enzymes involved in bacterial metabolism and second messenger pathways; functional tests for phenazine inhibitors in bacterial growth and virulence

G. Daum

Lipid analysis of outer membrane and OMV samples.

A. Glieder

Engineering of OMVs as enzyme delivery vehicles

K. Gruber

Crystallography of novel enzymes involved in bacterial metabolism and second messenger pathways

S. D. Kohlwein

Protein identification by mass spectrometry. Epifluorescence and confocal laser scanning microscopical image analysis of biofilms, bacterial adhesion, protein localization, and cell surface structures.

K. Zangger

NMR approaches to validate and characterize protein-protein interactions.

Collaborating research groups where PhD Students could perform their research stay abroad

Andrew Camilli

Department of Molecular Biology and Microbiology Tufts University, Boston, USA; Leading expert on transmission of cholera and multiple in vivo models of *V. cholerae*. Collaboration partner on OMVs derived from *V. cholerae*. Expertise with high-throughput sequencing and transcription profiling.

Mario Feldman

Alberta Glycomics Centre, Department of Biological Sciences, University of Alberta, Edmonton, Alberta, Canada, Leading expert on protein modification and glycosylation

Rita Tamayo

Department of Microbiology and Immunology, Univ. of N. Carolina, Chapel Hill, USA; Expertise with second messengers in *V. cholerae*.

Firdausi Qadri

ICDDR, b - International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh; Leading expert on cholera epidemiology, field-based research