

Collaborations within the DK

K. Gruber: Protein crystallization studies and modeling experiments; Protein characterization using biophysical methods, in particular dynamic light scattering and circular dichroism spectroscopy

P. Macheroux

Ligand binding studies using isothermal titration calorimetry; rapid mixing quench-flow analysis of enzymatic reactions

R. Breinbauer

Chemical synthesis of substrates and authentic standards of products

A. Glieder

Strains, vectors and general advice concerning the construction of recombinant yeast strains; enzyme activities by directed evolution

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

David K. Wilson

Department of Molecular and Cellular Biology, Univ. of California Davis, CA, USA.: protein structure determination by x-ray crystallography (reductases)

http://chemistry.ucdavis.edu/faculty/department_Faculty/david_wilson.html

Udo Oppermann

The Botnar Research centre and Structural Genomic Consortium SGC unit, Univ. of Oxford, UK; structure of dehydrogenases using x-ray crystallography

<http://www.ndorms.ox.ac.uk/profiles.php?profile=uoppermann>

Collaboration in Austria

Lothar Brecker

Institute of Organic Chemistry, Univ. of Vienna, Austria; organic synthesis; examination of substrate binding and catalysis in enzymes using in situ (real-time) NMR, Saturation Transfer Difference NMR, and C^{12}/C^{13} kinetic isotope effects determined at natural abundance

Industrial partners

Various industrial partners within the consortia of the Austrian Center for Industrial Biotechnology, the Research Center of Pharmaceutical Engineering, and the K-project MacroFun.

