Jörg Rademann

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ChemBioNet-contribution: Collaborations in screening of chemical libraries, fragment-ligation screening, assay development and medicinal chemistry

Research interest: Medicinal chemistry of proteases, phosphatases and PP-interactions

We develop synthetic methodology for the generation of chemical libraries which are screened in bioassays. A particular focus is in the area of fragment-based ligation assays in which protein ligands are formed by a ligation reaction of fragments in the presence of the protein and can be detected directly in a bioassay.

Expertise: Organic synthesis of chemical libraries, bioassays of proteases, phosphatases and protein-protein interactions, small molecule screening

Equipment: parallel organic synthesis, screening and assay equipment

ChemBioNet
Network for Academic Chemical Biology Research

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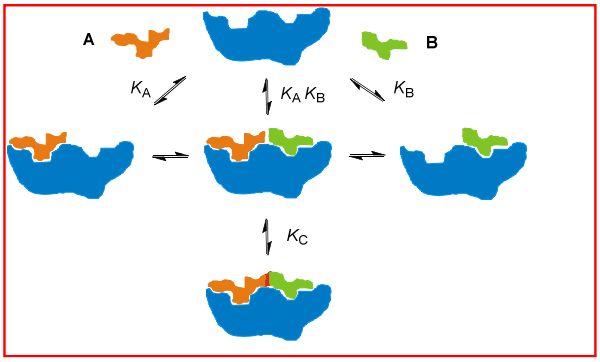
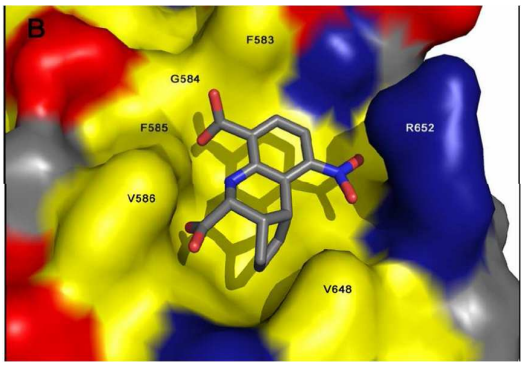
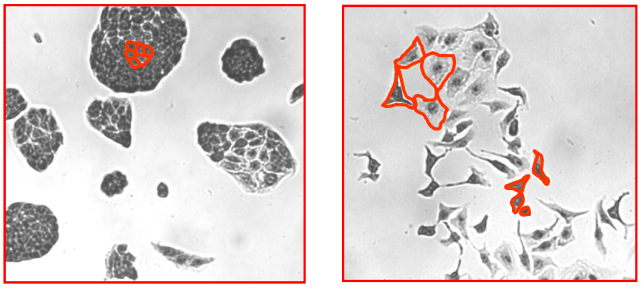
Medicinal chemistry of proteases, phosphatases and PP-interactions



Dynamic ligation screening



Crystallized complex of a PPI-inhibitor with the Shank-PDZ domain



Cellular effects of a phosphatase (Shp2) inhibitor

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