

Johannes Gutenberg-Universität Mainz
Pharmaziegebäude, Staudinger Weg 5, EG
Seminarraum 00 112

Geschäftsführende Leiterin
Univ.-Prof. Tanja Schirmeister

Wissenschaftliches Kolloquium Institut für Pharmazie und Biochemie

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EINLADUNG ZUM VORTRAG

Montag, 15. Mai 2017 um 17.15 Uhr,
hält

Prof. Dr. Daniel Rauh

Lehrstuhl für Medizinische Chemie und Chemische Biologie
Technische Universität Dortmund

den Vortrag

Chemical Oncology for Drug Research

Dieser findet statt im Institut für Pharmazie und Biochemie der Johannes Gutenberg-Universität Mainz, Staudinger Weg 5, Seminarraum I (EG).
Sie sind herzlich eingeladen.

gez. Prof. Dr. Tanja Schirmeister, Institut für Pharmazie und Biochemie

Abstract:

Research in our lab is dedicated to medicinal chemistry, compound screening technologies and chemical biology approaches. It is our goal to develop, synthesize and facilitate desperately needed tools to study target protein function in cells and organisms to push research to exciting new frontiers. In our research, we employ organic synthesis[1], biochemical and cellular compound screening[2], structural biology, structure-based design as well as target identification[3] for the development of inhibitors and functional probes to perturb proteins of interest. A strong focus in the lab is on personalized medicine for the treatment of cancer.[4] Here, we closely collaborate with clinical oncologists to better understand the mechanisms of resistance[5] and to develop compounds to overcome acquired drug resistance[6] in non-small-cell lung cancer[1] and gastrointestinal stromal tumors.[7] We are motivated that our techniques and investigations will lead to a better understanding of the molecular and cellular causes of fatal diseases and stimulate the development of new drugs. We are also interested in developing means to bridge the gap between basic university-based research and practical application. Against this background, we recently established the "Zentrum für integrierte Wirkstoffforschung" (ZIW) as well as the Drug Discovery Hub Dortmund (DDHD). Some of the initiatives will be outlined during the talk.

