Wissenschaftliches Kolloquium
Institut für Pharmazie und Biochemie

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
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.