



DZHK
DEUTSCHES ZENTRUM FÜR
HERZ-KREISLAUF-FORSCHUNG E.V.

UniversitätsKlinikum Heidelberg

5th "Meet the expert" seminar 2016

Speaker: Prof. Dr. Manfred Jung
Institute of Pharmaceutical Sciences
Albert-Ludwigs-Universität Freiburg



"Epigenetic drug discovery - probing the bookmarks in the book of life"

Epigenetics is defined as inheritable changes in the phenotype of a cell or an organism that are regulated by mechanisms other than changes in the DNA sequence. Epigenetic mechanisms respond to external signals, e.g. chemicals, stress or nutrition, and affect transcriptional regulation. Epigenetics may preserve these effects even if the initial stimulus is not present any longer. It may be as stable as a genetic alteration but is still principally reversible. In this talk the principle mechanisms of epigenetics are introduced, selected epigenetic targets and available inhibitors are presented and case studies from our own research on histone modifying enzymes as potential drug targets are highlighted.

Date: Wednesday, 07.12.2016
Time: 5.00p.m. (refreshments will be served after the seminar)
Venue: Analysezentrum III, INF 669, Room F02.332

Host: Johannes Backs
Department of Molecular Cardiology and Epigenetics