



**External
Speaker**

UniversitätsKlinikum Heidelberg

Seminar

Speaker:

Priv.-Doz. Dr. med. Jochen Utikal
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Within the German Center for Cardiovascular Reserach (GCCR), Dr. Utikal and his team leads the Heidelberg/Mannheim partner site initiative to exploit iPS technology for development of personalized myocardial treatment options.

The ectopic expression of different sets of transcription factors in cells is capable to reprogram cells into a pluripotent state- in so called induced pluripotent stem cells (iPS cells). iPS cells have been reprogrammed from different sources of primary cells. Here, it will be shown that besides of primary cells also long time cultured cell lines as well as tumor cells are amenable for reprogramming by the ectopic expression of transcription factors into a pluripotent state. iPS cells derived from these cells undergo differentiation into cell types derived of all 3 germ layers during teratoma formation assays. Tumor cell derived pluripotent cells and their differentiated progenies provide a valuable experimental platform to model oncogenesis.

Place: SR 718/719

Date: Tuesday, 17 January 2012

Time: 19:00

Title: "Induced pluripotency in benign and malignant cells."

Host: Prof. Dr. med. Patrick Most
Chair for Molecular and Translational
Cardiology, Center for Molecular and
Translational Cardiology, Department of
Internal Medicine III,
University of Heidelberg