



VISION 2020 - A PERSONAL PERSPECTIVE SYNTHETIC BIOLOGY

Thursday, January 22, 2015, 17:30 h
Lecture Hall Y16 G05
University of Zurich, Irchel Campus
Guillermo de la Cueva Méndez
Andalusian Centre for Nanomedicine and Biotechnology (BIONAND)
Málaga, Spain



Synthetic biology and smart therapeutic nanosystems

Innovative approaches combining killing efficiency of classical chemotherapeutic agents and target selectivity of molecularly targeted drugs are required to treat cancer effectively. One of our goals is to produce synthetic systems that distinguish cancerous cells from normal cells, and that exploit cancer biomarkers to promote the suicide of tumor cells whilst conferring active protection to normal cells thus avoiding off-target toxicity. The rationale behind these systems, their design and current performance, as well as their full potential and challenges ahead will be presented and discussed.

The presentation is followed by an aperitif and - for a limited number of students - by a dinner with the speaker. For the dinner, contact julia.jando@uzh.ch not later than January 19, 2015 by explaining why you would like to meet the speaker.

Organization

This event series is organized by a committee of PhD students of the PhD Program in Integrative Molecular Medicine (imMed), UZH: *Institute of Physiology*: Julia Jando (chair) | Marek Whitehead *Center for Molecular Cardiology, USZ/UZH*: Tasneem Arsiwala *Division of Gastroenterology and Hepatology, USZ*: Stephanie Kasper
Supported by the SUK Program "Doktoratsprogramme"