

Design and Light Control

30 August - 1 September 2017



Targeting DNA and enzymes with molecules and light

Joakim Andreasson
Gothenburg

CETCH me if you can: Designing and controlling synthetic pathways for the fixation of carbon dioxide

Tobias Erb
Marburg

Shedding light on RNA refolding reactions

Boris Fürtig
Frankfurt

Detecting light-induced biochemical events in membranes by solid-state NMR

Clemens Glaubitz
Frankfurt

Synthetic Physiology: Optical intervention with BETA-cell degeneration

Harald Janovjak
Vienna

Customizing opsin-based light-switching: engineering bistable opsin-receptor chimeras for vision restoration and beyond

Sonja Kleinlogel
Bern

Near-IR Uncaging Chemistry: Discovery and Applications

Martin Schnermann
Frederick

Light control of protein activity using engineered plant photoreceptors

Chandra Tucker
Aurora

Riboswitch-based regulation studied by NMR and Light

Harald Schwalbe
Frankfurt

Synthetic Reagents for Control of Endogenous Biological Systems

Oliver Thorn-Seshold
Munich

Variation of light-driven ion transport by rhodopsins

Christian Bamann
Frankfurt

Controlling protein export with blue light in living cells

Barbara Di Ventura
Heidelberg

Fatty acid synthases (FAS) in synthetic biology

Martin Grininger
Frankfurt

Nature's eyes, scientists' switches: Structure, function and engineering of LOV-based photosensors

Kevin Gardner
New York

Semisynthetic fluorescent and bioluminescent sensor proteins

Kai Johnsson
Heidelberg

Optochemical Biology -Rewiring cellular processes in time and space

Ralph Wienceke
Frankfurt

Photopatterned hydrogels for guided cell growth

Molly Shoichet
Toronto

Discovering light-switchable protein interactions using phage display

Andrew Woolley
Toronto

Optogenetics toolbox v2.0

Jana Liewald
Frankfurt

Further information and conference registration: www.cef-mc.de

