http://www.ki.si

VABILO NA PREGLOV KOLOKVIJ / INVITATION TO THE PREGL COLLOQUIUM

Prof. dr. Martin Fussenegger

ETH Zurich, Department of Biosystems Science and Engineering (D-BSSE), Mattenstrasse 26, CH-4058 Basel, Switzerland; e-mail: fussenegger@bsse.ethz.ch

Četrtek / Thursday, 14. 06. 2012, ob / at 12:00

Velika predavalnica Kemijskega inštituta / Lecture Hall at the National Institute of Chemistry; Hajdrihova 19, Ljubljana

Synthetic Mammalian Biology - From Tools to Therapies

Capitalizing on our latest advances in the design of heterologous mammalian transgene control systems we have designed the first prosthetic networks that sense, monitor and score (disease-) relevant metabolites, process off-level concentrations and coordinate adjusted diagnostic, preventive or therapeutic responses in a seamless, automatic and self-sufficient manner. We believe that the design of synthetic gene networks, which process molecular signals with near digital precision, may provide novel therapeutic opportunities. Highlights will include our proof-of-concept studies on prosthetic networks improving artificial insemination, enabling the treatment of gout and providing a new type 2 diabetes therapy based on light-triggered glucose homeostasis.

Vljudno vabljeni! / Kindly invited!

info: prof. dr. Roman Jerala; roman.jerala@ki.si