BIOENGINEERING SEMINAR

“Peptide Aptamers: Precision Tools for Early Development of Novel Therapeutic Compounds”

Tuesday – October 1, 2013 – 02:15 p.m.
EPFL – room SV1717a

Brian B. Rudkin, Ph.D.
CNRS/Ecole Normale Supérieure de Lyon (F)

host: Prof. J.A. Hubbell

Abstract

While systems biology approaches analyzing the genome, proteome, interactome etc. are increasing our understanding of complex regulatory networks, identification of key proteins in signaling pathways that regulate cellular responses remains crucial for furthering our understanding of normal cellular processes and pathological perturbations thereof. Peptide aptamers, conceived to conceptually resemble antibodies, are small combinatorial proteins with a constant scaffold presenting a variable region. Their use for the identification and validation of novel targets and discovery of novel therapeutics in vitro, in cellular models, and in vivo in animal models for human disease, will be discussed.

See current Bioengineering seminar calendar at http://bioengineering.epfl.ch/seminars