



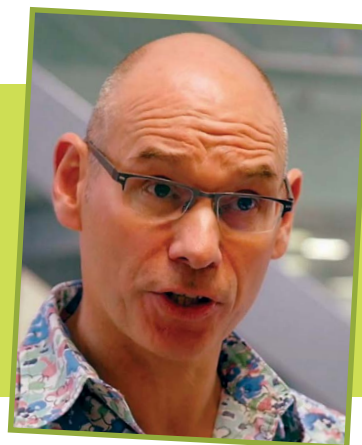
NCCR CHEMICAL
BIOLOGY

SPECIAL SEMINAR SERIES

Invited speaker

DEK WOOLFSON

Professor, Schools of Chemistry and Biochemistry
& Bristol BioDesign Institute, University of Bristol, UK



Augmenting biology through *de novo* protein design

March 18th 2019

16:15

UNIGE - Room 3-352

About the talk

It is today possible to generate a wide variety of stable protein folds from scratch, using rational and/or computational approaches. Another challenge is to move from what has been largely in vitro exercises to protein design in living cells. This talk will illustrate what is currently possible in this nascent field using *de novo* α -helical coiled-coil peptides as building blocks. The understanding, design methods, and current "toolkit" of *de novo* coiled coils developed in the Woolfson lab will be presented. The toolkit used to direct protein-protein interactions and build complex protein assemblies in bacterial cells will also be addressed.