NCCR CHEMICAL BIOLOGY

NCCR LECTURE SERIES

Invited speaker

HAGAN BAYLEY

Professor of Chemical Biology
Department of Chemistry, University of Oxford, UK

Protein pores as nanoreactors for single-molecule chemistry

Nov. 20th 2017

16:15

UNIGE - A50A

About the talk

Chemistry can be observed at the single-molecule level by using protein pores as "nanoreactors". Non-covalent interactions observed in this way include the coordination of cations and anions and the binding of organic molecules to macrocyclic hosts. Covalent chemistry includes polymer chain elongation, complex reaction networks and molecular walking. Chemistry within protein nanopores is the basis of stochastic sensing, including the single-molecule sequencing of biopolymers.

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