



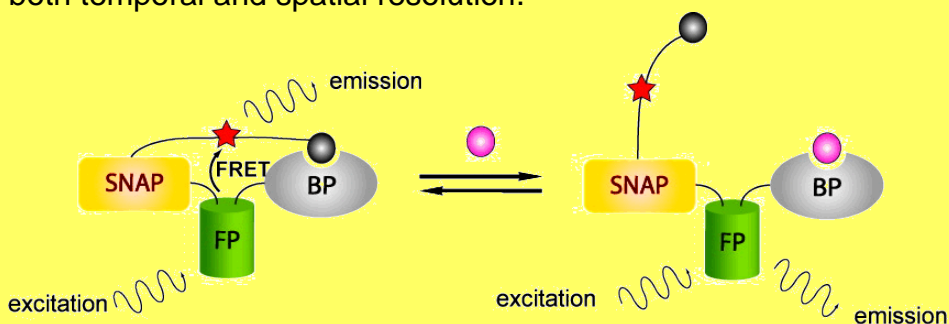
Characterizing the bioactivity of small molecules

Prof. Kai JOHANSSON

Institute of Chemical Sciences and Engineering, EPFL

An understanding of the bioactivity of small molecules requires an identification of their binding partners and a measurement of their cellular concentrations with spatiotemporal resolution. In this presentation I will discuss how chemical approaches can be used to address these questions.

In the first part of the presentation I will discuss a method for the identification of drug-protein interactions and demonstrate how it allowed us to identify new protein targets for a number of clinically approved drugs. In the second part of the presentation I will introduce a new class of semisynthetic fluorescent sensor proteins that can be used to measure the concentration of key metabolites and metal ions in living cells with both temporal and spatial resolution.



FP = autofluorescent protein; BP = binding protein

Genetically encoded fluorescent sensor proteins. J. Am. Chem. Soc. (2009) 131, 5873–5884.

Conférence présentée le

LUNDI 20 SEPTEMBRE 2010 à 17h30

Université de Genève – Bâtiment Sciences II
Auditoire A. Pictet – A100 (**attention : nouvel auditoire**)
30, quai Ernest-Ansermet, Genève

La conférence est publique

sochimge@unige.ch
www.unige.ch/sochimge/

Avec le soutien de :



UNIVERSITÉ
DE GENÈVE