



Séminaire externe



"Responsive lanthanide-based luminescent probes for multicolor imaging."

Detailed information on the composition and dynamics of biological systems is crucial for areas ranging from fundamental biochemistry to medical diagnostics. Biological processes are interconnected with each other, and depend on multiple components. Monitoring several of these components simultaneously would be beneficial e.g. in order to minimize sample-to-sample variations, reduce the incidence of false positive and negative diagnoses, and to identify connected nodes in cellular communication networks.

Our group uses responsive lanthanide-based luminescent probes to monitor enzymes and small-molecule enzyme regulators. The challenges of developing luminescent probes for multicolor imaging will be discussed. We have recently reported a new method to construct lanthanide-based responsive probes rapidly from a simple core. The design of the probes will be presented, along with their characterization and application in a series of proof-of-concept experiments.

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Invitée par Eva Jakab Toth

Vendredi 16 janvier 2015 à 11h
Salle de conférence du CBM