

Pozvánka
na přednášku

KATEDRA ANORGANICKÉ CHEMIE

Přírodovědecká fakulta UK v Praze

si Vás dovoluje pozvat na přednášku z cyklu *Quo Vadis Chemie*

Molecular Imaging with Peptides, Proteins, and Nanoparticles

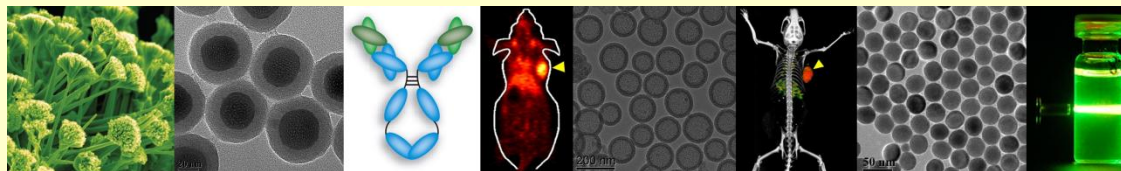
Přednášející:

Prof. Waibo Cai

University of Wisconsin – Madison, USA



Abstrakt: The Molecular Imaging and Nanotechnology Laboratory at the UWM (<http://mi.wisc.edu/>) is focused on three areas: 1) development of multimodality molecular imaging agents; 2) nanotechnology and its biomedical applications; and 3) molecular therapy of cancer. In this talk, I will present our recent work on molecular imaging of cancer and various cardiovascular diseases with peptides, proteins, and a variety of nanomaterials. The primary imaging techniques used in these studies are positron emission tomography (PET), optical imaging, and magnetic resonance imaging (MRI). The major molecular targets that we are investigating are CD105 (i.e. endoglin), VEGFR, and integrin $\alpha_v\beta_3$. The nanomaterials that will be discussed in this talk include nano-graphene oxide, zinc oxide nanomaterials, unimolecular micelles, silica-based nanoparticles, magnetic nanoparticles, among many others. A few representative side projects will also be presented, such as the facile synthesis of PET/MRI dual-modality agents.



**Přednáška se bude konat 14. srpna 2014 (čtvrtek) v 14:00
v posluchárně CH-3, budova chemických kateder PŘF UK v Praze.**