



Laboratoř metalomiky a nanotechnologií Mendelovy univerzity v Brně
Laboratoř nanotechnologií Vysoké učení technické v Brně
NanoTeam- Budování výzkumných týmů a rozvoj univerzitního vzdělávání
výzkumných odborníků pro mikro- a nanotechnologie

Vás zvou na přednášku v rámci cyklu NanoTeam a Biochemický seminář:

Microfluidic chip analysis with fluorescence detection using a commercial field-deployable platform

**Prof. RNDr. Mirek Macka, Ph.D., MRACI, MRSC,
CChem**

(University of Tasmania, Australia, School of Chemistry)

<http://fems.its.utas.edu.au/scieng/chem/pagedetails.asp?lpersonId=243>

During the past decades, the concept of a μ -TAS (micro-Total Analysis System) has been developed, refined and applied to a variety of chemical and biological problems. In essence, a μ -TAS is a device that improves the performance of an analysis by virtue of its reduced size. Typically, μ -TAS is a microchip or micro-device fabricated using conventional micromachining technologies. Clearly, the size is important in niche areas, such as 'point-of-care' diagnostics and 'in-the-field' analysis, but even then performance gains will determine their applicability. Fluorescence detection is due to the extreme sensitivity optimal for analysis of low sample volumes and therefore it is ideal for use in microfluidic devices. This lecture aims to highlight the application of microfluidic chip-based analysis with fluorescence detection using a commercial field-deployable platform.

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Ústav chemie a biochemie, Mendelova univerzita v Brně, místnost D06

Kontakt: kizek@sci.muni.cz, zitkao@seznam.cz