

Call for Ph.D. Student in Analytical Chemistry

Mass Spectrometry in Cancer Research: Lipid Biomarkers for Early Diagnostics (ERC CZ project)

Where: University of Pardubice, Faculty of Chemical Technology, Department of Analytical Chemistry, Pardubice, Czech Republic (<http://www.upce.cz/english/fcht/index.html>).

Deadline: contact me as soon as possible, this call is open until the best candidate is selected.

Scholarship: in accordance with scholarship rules of Faculty of Chemical Technology to cover living costs and accommodation with possible additional benefits depending on the work progress.

What we offer:

1/ Work on the grant project „Mass Spectrometry in Cancer Research: Lipid Biomarkers for Early Diagnostics“ including the development of new analytical methods and the lipidomic analysis of biological samples of tumors, tumor cell lines and body fluids of patients.

2/ Top-class analytical instrumentation in the field of mass spectrometry (MS) and chromatography:

- 5 different configurations of tandem mass spectrometers (linear ion trap – orbitrap, Q-TOF, Q - linear ion trap and spherical ion trap) coupled with (U)HPLC or SFC chromatographic systems, 2 ion mobility systems (TWIMS and DMS),
- MALDI mass spectrometry imaging coupled with orbitrap or Q-TOF analyzer with ion mobility,
- Two-dimensional comprehensive UHPLCxUHPLC coupled with MS,
- Coupling of supercritical fluid chromatography and mass spectrometry (SFC/MS),
- Coupling of gas chromatography and mass spectrometry (GC/MS),
- BSL-2 laboratory for processing of biological materials.

3/ Presentation of original scientific results at international conferences.

4/ Possibility of accommodation at student dormitories.

What we require:

1/ Real scientific enthusiasm, high working effort, positive thinking, reliability.

2/ Strong theoretical backgrounds in analytical chemistry, basically chromatography and mass spectrometry. Practical experiences are beneficial, but not essential.

3/ Curriculum vitae with 3 supporting letters including the letter from diploma thesis supervisor.

Contact and information:

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