Call for PhD Students in Analytical Chemistry
Lipidomic analysis by mass spectrometry

Where: University of Pardubice, Faculty of Chemical-Technology, Department of Analytical Chemistry

When: from October 1 (each year)

Deadline for applications: the end of April annually (please contact me first), http://www.upce.cz/english/fcht/study/doctoral-study/analytical.html

Salary: the basic stipend in the first year is 10,000 CZK net with other personal benefits from grant projects based on the work progress, in other years 10,000 / 12,000 / 15,000 CZK depending on the evaluation of year progress report.

We offer:
1/ Work on ERC CZ grant project "Mass Spectrometry in Cancer Research: Lipid Biomarkers for Early Diagnostics".
2/ Lipidomic analysis of body fluids (mainly plasma and urine) and other types of biological samples for cancer patients and healthy volunteers using the newest mass spectrometry and chromatography techniques:
   - ultrahigh-performance supercritical fluid chromatography – mass spectrometry coupling (UHPSFC/MS),
   - shotgun MS analysis,
   - mass spectrometry imaging using MALDI with Orbitrap analyzer,
   - several other UHPLC/MS, HPLC/MS and GC/MS systems with various types of mass analyzers (Q-TOF, quadrupole – linear ion trap, ion trap, ion mobility).
3/ Presentation of obtained results on leading international and national conferences, possibility of research stays abroad in leading lipidomic groups.
4/ Possible accommodation in facilities of University of Pardubice.

We expect:
1/ Deep interest in the scientific work and high working effort.
2/ Theoretical background in chromatography and mass spectrometry, experimental experiences are advantageous but not required.
3/ Good communications skills in English language.
4/ Good computer skills.

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