



**Masaryk University, Brno, Czech Republic invites excellent scientists to apply
for
POSTDOC POSITION in the field of
Environmental Toxicology / Environmental Health**

Description:

The postdoctoral researcher will be involved in a project on the development of predictive and diagnostic methods for the characterization of potential impact of internal and external exposure mixtures on human health and associated risks. The research will focus namely on the ability of chemicals to disrupt endocrine regulation, which can be associated with numerous developmental, neuroendocrine and metabolic disorders. Characterization of the potential role of co-exposures to wide spectra of pollutants as risk factors in development of these diseases will be complemented by diagnostic approaches on the level of biomarkers linking the mechanisms of action with health disorders. Advanced (bio)analytical methods and predictive models will be developed and implemented within this project. This research will be conducted in close relation to cohort epidemiological studies and the European Human Biomonitoring Platform.

This position is offered at the Research Centre for Toxic Compounds in the Environment (RECETOX, www.recetox.muni.cz), which focuses on interactions among chemicals, environment, and biological systems, including impact and risk assessments. Expertise of the centre allows for the investigation of interdisciplinary links between the contamination and health, biodiversity, or climate change. RECETOX research infrastructure includes international sampling networks, epidemiological studies (ELSPAC cohort: www.elspac.cz), accredited trace laboratories as well as environmental information systems (GENASIS: www.genasis.cz, www.pops-gmp.org).

The successful candidate should:

- be a researcher within 7 years after receiving the Ph.D. degree or its equivalent
- hold a doctoral degree in the area related to the research topic
- have a good publication record with articles in international peer reviewed journals
- have experience in the field of Environmental Toxicology, Environmental Health Sciences, Ecotoxicology, Biochemistry or Environmental Chemistry
- have experience with research projects (an advantage)
- have excellent communication skills and ability to collaborate with multiple teams
- qualifying experience: predictive modelling (QSAR, mixtures models) or good chemical analytical skills (namely liquid chromatography and mass spectrometry methods)
- advantageous experience (any of the following): biomarkers analyses, omics technologies, big data analysis and programming with R, effect directed analysis, adverse outcome pathways, human cell-based assays, molecular docking

The application should include:

- CV including a summary of work experience, publication activity, involvement in research grants, etc.
- Cover Letter

Masaryk University

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Please quote the Ref. No. in your reply.



- Contact information of at least three references

MU offers the opportunity to get:

- interesting job in a dynamically expanding university area
- diverse and challenging work in excellent research
- tenure track with an initial appointment for 2 years
- professional team and pleasant working environment
- interaction with leading scientists in an inspiring, internationalized environment
- welcome service for the successful candidate and his/her family

Anticipated start date: The position is available from March 2018.

The submission date is **28st January 2018**.

Please submit your application (or informal enquiries can be sent) by e-mail to jalova@recetox.muni.cz.

Review of applications will commence immediately after the deadline. Short-listed candidates will be invited for an interview within one month of the deadline.

Further information about:

- Postdoc research topic, institute and position: Assoc. Prof. Klara Hilscherova, e-mail: hilscherova@recetox.muni.cz; www.recetox.muni.cz
- Postdoc@MUNI is available at <http://postdoc.muni.cz>
- Masaryk University is available at www.muni.cz/en
- Brno is available at <http://www2.brno.cz/index.php?lan=en&nav01=20608&nav02=20617>

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