



## RECETOX

Research Centre for Toxic Compounds in the Environment ([www.recetox.muni.cz](http://www.recetox.muni.cz))  
Masaryk University in Brno, Czech Republic

seeks enthusiastic and highly motivated scientists for

## Six Postdoctoral Research Positions

Deadline for application: June 30, 2014 or until all positions are filled

Duration: 18 months, can be prolonged up to 3 years

### Research topics

1. Development of sampling and analytical methods for emerging contaminants and metabolites (outdoor, indoor, biotic matrices) and non-target analysis
2. Assessment of human exposure pathways (dietary, inhalation and dermal exposure routes) and human risk assessment
3. Effect directed analysis (EDA) of bioactive metabolites
4. Mechanisms of endocrine disruptive and tumor-promotional effects of cyanobacterial metabolites
5. Time-resolved spectroscopy and reaction mechanisms
6. Molecular modeling, structure-function relationships, protein design and engineering

### Requirements

completed Ph.D. degree in environmental, analytical, bioanalytical, organic, or physical chemistry, biochemistry, biology, (eco)toxicology, or similar, and proficiency in English.

### The application should contain

1. CV (including birth date, education, employment record and publication list)
2. A motivation letter (including scientific achievements)
3. Two recommendation letters including e-mail contacts of referees

To further enhance our research and international collaboration, we also invite applications of senior researchers interested in

## Sabbaticals and Short-Term Research Positions

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Applications should be sent to Veronika Jalova ([jalova@recetox.muni.cz](mailto:jalova@recetox.muni.cz))

**More information:** formalities - Veronika Jállová ([jalova@recetox.muni.cz](mailto:jalova@recetox.muni.cz)), research topics - Jana Klánová ([klanova@recetox.muni.cz](mailto:klanova@recetox.muni.cz), environmental chemistry, topics 1-2), Luděk Bláha ([blaha@recetox.muni.cz](mailto:blaha@recetox.muni.cz), ecotoxicology, topics 3-4), Petr Klán ([klan@sci.muni.cz](mailto:klan@sci.muni.cz), photochemistry, topic 5), Jiří Damborský ([jiri@chemi.muni.cz](mailto:jiri@chemi.muni.cz), protein engineering, topic 6)



## RECETOX IN BRIEF

RECETOX ([www.recetox.muni.cz](http://www.recetox.muni.cz)) is focused on interactions among chemicals, environment, and biological systems, including consequences at local, regional, and global levels. New approaches to study environmental distribution, transport, bioaccumulation, and effects of contaminants are being developed incorporating environmental and human risk assessment, environmental modelling, biostatistics, and informatics. Expertise available in the centre allows for investigation of interdisciplinary links between the contamination of ecosystems and health, biodiversity, or climate change, perform local or regional impact assessments, and develop water rehabilitation technologies and soil remediation methods. RECETOX research infrastructure includes international sampling networks (i.e. MONET passive air sampling network), epidemiological studies (ELSPAC cohort: [www.elspac.cz](http://www.elspac.cz)), accredited trace laboratories as well as environmental information systems (GENASIS: [www.genasis.cz](http://www.genasis.cz), [www.pops-gmp.org](http://www.pops-gmp.org)).

RECETOX research infrastructure can be accessed (for services, training and collaborative projects) through the open-access programme

- [www.recetox.muni.cz/index-en.php?pg=research-infrastructure](http://www.recetox.muni.cz/index-en.php?pg=research-infrastructure)