



INVITATION TO SEMINAR

INFORMATION FROM WORKSHOPS

Date: 1.10.2013, 9:00

Venue: lecture room RCX1 (A29/252), 2nd floor, Research Centre for Toxic Compounds in the Environment, Faculty of Science, Masaryk University, Kamenice 5, Brno

Mgr. Zdenka Bednářová **Speciation and Bioavailability**

The presentation will inform about the Speciation and Bioavailability course which took place in June in Wageningen, the Netherlands. The course was focused on many issues connected with speciation analysis, modelling and computation of speciation. The presentation shows an overview of topics that were discussed during the course and emphasizes the basic and most important issues.

Mgr. Andrea Vítečková Wünschová, Ph.D. **Molecular Mechanisms of Development, Aging and Regeneration**

Some organisms have great ability to regenerate different parts of their bodies. Understanding of these regenerative processes can lead to human health care improvements. During the talk two videos present regeneration of limb and fin of two unrelated organisms newts and zebrafish.

Aging is a process that undergoes every living organism and in case of organisms with chromosomes is highly important to understand how their ends are shortening. The shortening ends are called telomeres and with every cell division get shorter. Chromosomes without telomeres can fuse. Such a cell with fused chromosome might become a risk and create tumor.

Xenopus laevis is a frog used as model organism in molecular biology and also in ecotoxicology. The standardized test for testing toxic compounds is called FETAX and the discussion focuses on the robustness of the test towards gene expression studies.