BIOGRAPHY

26/06/2012

Title and name
Prof. Metka FILIPIČ

Nationality
Slovene

Panel
Panel on Plant Protection Products and their Residues - PPR

Education
University degree in Food technology - 1977: University of Ljubljana, Biotechnical Faculty, Ljubljana, Slovenia
Master degree in Microbiology - 1986: University of Ljubljana, Medical and Biotechnical Faculty, Ljubljana, Slovenia
PhD degree in Biology - 1995: University of Ljubljana, Biotechnical Faculty, Ljubljana, Slovenia
Associate professor - 2009: University of Ljubljana, Faculty of Pharmacy, Ljubljana, Slovenia
Fellowships: Istituto Superiore di Sanità Rome, Italy; Columbia University, New York, USA

Scientific and risk assessment experience
- Genetic toxicology and mechanisms of carcinogenesis
- Nanotoxicology,
- Environmental toxicology
- Risk assessment of genotoxic and carcinogenic environmental contaminants.

Main scientific publications
Main areas of publications are mechanisms of toxicity/genotoxicity of environmental and dietary contaminants; antimutagenicity and cancer preventive potential of natural and dietary constituents.

Ten most relevant publications:

Žegura, B, Štraser, A, Filipič, M. (2011) Genotoxicity and potential carcinogenicity of cyanobacterial toxins-a review. Mutat. Res., 727, 16-41.

Filipič, M. (2012) Mechanisms of cadmium induced genomic instability. Mutat. Res.. 733, 69-77.

Viegas, O, Žegura, B, Pezdirc, M, Novak, M, Ferreira, I, Pinho, O, Filipič, M. (2012) Protective effects of xanthohumol against the genotoxicity of heterocyclic aromatic amines MeIQx and PhIP in bacteria and in human hepatoma (HepG2) cells. Food Chem. Toxicol., 50, 949-955.

Petković, J, Küzma, T, Rade, K, Novak, S, Filipič, M. (2011) Pre-irradiation of anatase TiO2 particles with UV enhances their cytotoxic and genotoxic potential in human hepatoma HepG2 cells. J. Hazard. Mater. 196, 145-152.

Petković, J, Žegura, B, Stefanović, M, Drnovšek, N, Uskoković, D, Novak, S, Filipič, M. (2011) DNA damage and alterations in expression of DNA damage responsive genes induced by TiO2 nanoparticles in human hepatoma HepG2 cells. Nanotoxicology, 5, 341-353.

Žager, V., Čemažar, M., Hreljac, I., Lah T.T., Serša, G., Filipič, M. (2010) Development of human cell biosensor system for genotoxicity detection based on DNA damage-induced gene expression. Radiol. Oncol. 44, 42-51.

Hreljac, I., Filipič, M. (2009) Organophosphorus pesticides enhance the genotoxicity of benzo(a)pyrene by modulating its metabolism. Mutat. Res., 671, 84-92.

Žegura, B., Heath, E., Černoša, A., Filipič, M. (2009) Combination of in vitro bioassays for the determination of cytotoxic and genotoxic potential of wastewater, surface water and drinking water samples. Chemosphere, 75, 1453-1460,

Hreljac, I., Zajc, I., Lah T.T., Filipič, M. (2008) Effects of model organophosphorus pesticides on DNA damage and proliferation of HepG2 cells. Environ. Mol. Mutagen., 49, 360-367.

Žegura, B., Zajc, I., Lah T.T., Filipič, M. (2008) Patterns of microcystin-LR induced alteration of the expression of genes involved in response to DNA damage and apoptosis. Toxicon, 51, 615-623.