

Mirta Tkalec, Associate Professor, Department of Biology, Faculty of Science, University of Zagreb

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Five selected publications:

1. Tkalec M, Peharec Štefanić P Cvjetko P, Šikić S; Pavlica M, Balen B. 2014. The effects of cadmium-zinc interactions on biochemical responses in tobacco seedlings and adult plants. *PLOS ONE* 9, e87582.
2. Tkalec M, Štambuk A, Šrut M, Malarić K, Klobučar GIV. 2013. Oxidative and genotoxic effects of 900 MHz electromagnetic fields in the earthworm *Eisenia fetida*. *Ecotoxicology and Environmental Safety* 90: 7-12.
3. Balen B, Tkalec M, Štefanić Peharec P, Vidaković-Cifrek Ž, Krsnik-Rasol M. 2012. In vitro conditions affect photosynthetic performance and crassulacean acid metabolism in *Mammillaria gracilis* Pfeiff. Tissues. *Acta Physiologiae Plantarum* 34: 1883-1893
4. Balen B, Tkalec M, Šikić S, Tolić S, Cvjetko P, Pavlica M, Vidaković-Cifrek Željka. 2011. Biochemical responses of *Lemna minor* experimentally exposed to cadmium and zinc. *Ecotoxicology* 20: 815-826.
5. Tkalec M, Malarić K, Pavlica M, Pevalek-Kozlina B, Vidaković-Cifrek Ž. 2009. Effects of radiofrequency electromagnetic fields on seed germination and root meristematic cells of *Allium cepa* L. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis* 672: 76-81.

Other papers: in total 39 scientific paper in home and international research journals, 51 conference proceedings

List of publication at <https://bib.irb.hr/lista-radova?autor=221854>

Work experience: 2013-now associate professor, 2008–2013 assistant professor, 2005–2008 senior assistant, 1998-2005 assistant (Division of Biology, Faculty of Science, University of Zagreb, Croatia)

Education: 2005 PhD in Biology; 2001 MSc in Molecular Biology; 1996 BSc in Molecular Biology (Faculty of Science, University of Zagreb, Croatia)

Training: 2008 Molecular diversity analysis, University of Zagreb, Faculty of Agriculture.

Research and other project:

2014- researcher on project funded by HRZZ: "Diversity and interactions of chestnut, chestnut blight fungus and biocontrol agent – virus: implications on chestnut recovery" (leader: prof. dr. sc. M. Ćurković-Perica). This project aims at revealing individual and joint aspects of the dynamic three-lateral interaction between chestnut, its fungal pathogen and the pathogen-biocontrol agent-virus.

2007-2013 senior researcher on project funded by Ministry of Science, Education and Sports Republic of Croatia (MZOŠ): "Molecular responses of Croatian endemic and rare plant species to stress" (leader: prof. dr. sc. Branka Pevalek-Kozlina)

2002-2006 –researcher on project funded by MZOŠ: "Stress condition effect on Croatian endemic and endangered plant species " (leader: prof. dr. sc. Branka Pevalek-Kozlina)

1998-2002 – junior researcher on project funded by MZOŠ: "Effects of chemicals on physiological processes in plants" (leader: prof. dr. sc. Ivan Regula)

Teaching: Plant Physiology, Plant metabolism in stress conditions - Undergraduate study programme (BSc)

Mentorship: one defended doctoral dissertation; 9 graduation thesis

Organizational skills and competences: Member of Organization committee of 10th Croatian Biological Congress (2009); vice-president of Croatian Society of Plant Biologists (2011-now), technical editor-in-chief of scientific journal *Acta Botanica Croatica* (2013-now)

Membership in science organizations and bodies: Croatian Biological Society, Croatian Society of Plant Biologists