

**Petra Peharec Štefanić**, Assistant 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(1): e87582-e87582. doi: 10.1371/journal.pone.0087582.
2. Radić, S., Peharec Štefanić, P., Lepeduš, H., Roje, V., Pevalek-Kozlina, B. (2013) Salt tolerance of *Centaurea ragusina* L. is associated with efficient osmotic adjustment and increased antioxidative capacity. *Environmental and Experimental Botany*. 87; 39-48.
3. Peharec Štefanić, P., Koffler, T., Adler, G., Bar-Zvi, D. (2013) Chloroplasts of Salt-Grown *Arabidopsis* Seedlings Are Impaired in Structure, Genome Copy Number and Transcript Levels. *PLoS ONE* 8(12): e82548. doi: 10.1371/journal.pone.0082548
4. Peharec, P., Posilović, H., Balen, B., Krsnik-Rasol, M. (2010) Spine micromorphology of normal and hyperhydric *Mammillaria gracilis* Pfeiff. (Cactaceae) shoots. *Journal of Microscopy-Oxford* 239, 78-86.
5. Supek, F., Peharec, P., Krsnik-Rasol, M., Šmuc, T. (2008) Enhanced analytical power of SDS-PAGE using machine learning algorithms. *Proteomics* 8, 28-31.

**Other papers:** in total 18 scientific paper in home and international research journals, 28 conference proceedings <https://bib.irb.hr/lista-radova?autor=262332>

**Work experience:** 2010–now postdoc, 2004-2010 PhD student (Division of Biology, Faculty of Science, University of Zagreb, Croatia), March-September 2004 research associate (Dept. of Molecular pathology, KBC Zagreb, Šalata, Croatia)

**Education:** 2010 PhD in Biology-Molecular and Cellular Biology; 2004 B.Sc. Of Biology - Molecular Biology (Faculty of Science, University of Zagreb, Croatia)

**Training:** 2011-2012 postdoc training (Ben-Gurion University of the Negev, Israel); 2008 *In situ* hybridization to plant chromosomes (Faculty of Science, University of Zagreb); 2008 Molecular diversity analysis (Faculty of Agriculture, University of Zagreb); 2006 TEM in Life Science training course (FEI NanoPort, Netherland); 2005 Introduction to bioinformatics (Faculty of Science, University of Zagreb); 2005 FEBS advanced course- Origin and Evolution of Mitochondria and Chloroplasts (Ludwig Maximilians Universität München, Germany).

**Research and other project:**

2012-2013-postdoc on project funded by the University of Zagreb Fund for Development “How plants cope with abiotic stress; salinity and drought impact on proteome” (PI: prof. B. Balen); 2011-2012-postdoc on the project funded by Croatian science foundation: “The ubiquitin-proteasome system in abiotic stress: A study of two novel plant U-box ARM E3 Ubiquitin ligases crucial for water stress tolerance (PI: Dr. P.P. Štefanić) ; 2008-2010-PhD student on Croatia-Israel collaboration project: “Life under stress: molecular components and mechanisms of plant response to drought and salinity stress” (PIs: prof. M. Krsnik-Rasol and prof. D. Bar-Zvi); 2007-2014-PhD student on project funded by MZOS: “Differential protein expression in plant cells” (PIs: prof. M. Krsnik-Rasol, prof. B. Balen); 2004-2006-PhD student on project funded by MZOS: “Proteins and sugars in plant development” (PI: prof. M. Krsnik-Rasol)

**Teaching:** Electron microscopy (undergraduate and graduate study programme) and assistant for practical course: Methods in protein investigation, Cellular and Molecular Biology, Cell biology, Introduction to Electron Microscopy and Electron microscopy

**Mentorship:** Assistant supervisor of 2 graduation thesis (in Israel and Croatia)

**Organizational skills and competences:** Member of Organization committee of Croatian microscopy symposium (2012); of 10<sup>th</sup> and 9<sup>th</sup> Croatian Biological Congress (2009 and 2006), of 2<sup>nd</sup> Croatian Microscopic Congress (2006), of 1<sup>st</sup> -6<sup>th</sup> International School of Conservation Biology (2005-2010)

**Membership in science organizations and bodies:** Croatian Biological Society (treasurer 2005-2010), Croatian Society of Plant Biologists, Croatian Microscopy Society (vice-president 2011-2012; secretary 2008-2011), Croatian Society of Biochemistry and Molecular Biology