

Dubravko Pavoković, Assistant Professor, Department of Biology, Faculty of Science, University of Zagreb

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Five selected publications:

1. Horvatić, Anita; Dodig, Ivana; Vuletić, Tomislav; Pavoković, Dubravko; et al. 2013. Comparison between enhanced MALDI in-source decay by ammonium persulfate and N- or C-terminal derivatization methods for detailed peptide structure determination. *Analytical Chemistry*. 85, 8; 3940-3947,
2. Pavoković, Dubravko; Poljuha, Danijela; Horvatić, Anita; et al. 2012. Morphological and proteomic analyses of sugar beet cultures and identifying putative markers for cell differentiation. *Plant Cell Tissue and Organ Culture*. 108, 1; 111-119,
3. Pavoković, Dubravko; Omarszad, Osman; Maury, Stéphane; et al. 2011. The Role of Carbohydrate-Metabolizing Enzymes in Sugar Sensing and Differentiation in Sugar Beet Cell Lines. *Food Technology and Biotechnology*. 49, 4; 435-446.
4. Balen, Biljana; Tkalec, Mirta; Pavoković, Dubravko; et al. 2009. Growth conditions in *in vitro* culture can induce oxidative stress in *Mammillaria gracilis* tissues. *Journal of Plant Growth Regulation*. 28, 1; 36-45
5. Pavoković, Dubravko; et al. 2009. Light-dependent betanin production by transformed cells of sugar beet. *Food Technology and Biotechnology*. 47, 2; 153-158,

Other papers: in total 13 scientific paper in home and international research journals, 15 conference proceedings

List of publication at <https://bib.irb.hr/lista-radova?autor=245535>

Work experience: Faculty of Science, Division of Biology, Department of Molecular Biology since 2001 (military leave of 6 months in 2003 and a job change for 7 months in 2012/2013 included) as a PhD student (2001-2005), as a Senior research assistant (2005-2012); as an Assistant Professor (2013-). During PhD studies he spent 24 months in Faculty of Biology, University of Orleans, and short-time trainings in University of Poitiers and Tours, France.

Education: 2005 PhD in Biology; 2000 BSc in Biology and Chemistry, Faculty of Science, University of Zagreb, Croatia

Training: 2008, The 2nd European summer school in proteomic basics - „Protein identification - Mass Spectrometry“, Brixen, Italy; 2006, FEBS Advanced Lecture and Practical Course “From Functional Genomics to Molecular Proteomics: Basic Techniques to Gene Analysis”.

Research and other project:

2013 - present, project leader, BiCro Proof of Concept project “IgY technology - a new and affordable diagnostic procedure for detection of neoplasms in canines”

2007- present, post-doc, project “Differential expression of proteins in plant cells”, PI: prof. M. Krsnik-Rasol, currently prof. B. Balen.

2011 - 2013, post-doc, project “Plant defense from abiotic stress: effect of drought and salinity on the proteome”, PI: prof. B. Balen.

2008- 2011, post doc, Croatia-Israel bilateral project “Life under stress: molecular components and mechanisms of plant response to osmotic stress ”, PIs: prof. M. Krsnik-Rasol and Dr. Dudy Bar-Zvi.

2002-2007, Ph.D. student, project “Proteins and sugars in plant development, , as a. PI: prof. dr. Sc. Marijana Krsnik-Rasol.

2001-2005, international project “The role of carbohydrates in the development of normal and habituated cell lines of sugar beet” PIs: prof. M. Krsnik-Rasol and prof. D.I Hagege.

Teaching: “Cellular and Molecular Biology”, “Biology of the Cell”, “Biology”, “Methods in Protein research” - Undergraduate study programme (BSc)

Mentorship: 2 graduation thesis, 2 thesis for Rector's award

Organizational skills and competences: Organized several workshops and events for junior scientists, (2011-13) technical editor of scientific journal Acta Botanica Croatica

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

