

Jakobek Barron, Lidija, 243274

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Web site: <http://www.ptfos.unios.hr/index.php/zaposlenici/38-zaposlenici/nastavno-osoblje/117-lidija-jakobek>

EDUCATION

-2007. PhD (food engineering), Faculty of Food Technology Osijek, J. J. Strossmayer University of Osijek

-2001. BSc, Faculty of Food Technology, J. J. Strossmayer University of Osijek

-1995 – high school (Gymnasium) in Orahovica

EMPLOYMENT

-2013. – today – Associate Professor, Faculty of Food Technology, Osijek

-2010. - 2013. Assistant Professor, Faculty of Food Technology, Osijek

-2001.-2008. – Assistant, Faculty of Food Technology Osijek

TEACHING ACTIVITIES

-2010. – today – teaching, seminars, and laboratory practice in courses: Physical Chemistry, Food packaging (undergraduate study), Instrumental methods II, Engineering Chemistry, Food packaging materials (graduate study), Food packaging materials, Instrumental methods of food analysis (PhD study), Faculty of Food Technology Osijek, J. J. Strossmayer University of Osijek

-2008. – today – teaching and laboratory practice in Food packaging (undergraduate study). Faculty of Agronomy and Food Technology, Mostar University, BiH

SCIENTIFIC COLLABORATIONS

She was a visiting research scholar at CEBAS-CSIC Institute, Murcia, Spain (Francesco Tomás-Barberán, high-performance liquid chromatography with mass spectrometry detector, 4 months, during 2011) and University of Helsinki, Finland (Marina Heinonen, PhD, full professor, column chromatography, ultra-performance liquid chromatography, 6 weeks, 2013).

RESEARCH EXPERIENCE (RESEARCH INTERESTS)

Her research interests are focused on polyphenol compound bioactivities (interactions of polyphenols with dietary fibers, the influence of interactions on the bioaccessibility, antiradical activity of polyphenols and the polyphenol effects on the enzyme activity (first of all, those enzymes that can affect glucose metabolism (α -amylase, α -glucosidase)). Also, here interests are the identification and quantification of polyphenols in different foods by using various instrumental techniques (high-performance liquid chromatography with UV/Vis, PDA, MS detectors or UV/Vis spectroscopy).

PUBLICATIONS

She published 33 papers (18 current contents)

PROJECTS

Project leader:

-project „Nutritional characteristics of old, neglected apple cultivars from Slavonia region important for their preservation“ (funded by Adris foundation, one year, finished project).

-project „Characterization of polyphenols in old apple cultivars“ (funded by J. J. Strossmayer University of Osijek, 2013/2014, one year, finished project).

-project „Bioavailability and metabolism of phenolic compounds from fruits“ (funded by the Croatian science foundation, programme Postdoc, Brain Gain, 4 months, finished project).

As a researcher she was involved in several national projects:

-project 113-1130471-0451 „Heat transfer and thermal properties of food during processing“ (founded by: Ministry of Science, Education and sports, Republic of Croatia – finished project)

-project 0113-006 „Interactions in metal packaging materials – food systems“ (funded by the Ministry of Science, Education and Sports, Republic of Croatia – finished project)

-Project 113003 „Quality control and nutritional and toxic aspects of food“ (funded by the Ministry of Science, Education and Sports, Republic of Croatia – finished project)

-project „Development of the study programmes in the biotechnical field according to the Croatian Qualifications Framework (CROQF); funded by the European Social Fund, ESF (18/06/2015-18/06/2016); project leader: Mirjana Hruškar, PhD.