


Curriculum vitae

Personal data

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Name: **Jasminka Giacometti**
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International Visibility

		Citations	h-index	i10-index
Orcid	 http://orcid.org/0000-0002-3388-4645			
Google scholar	https://scholar.google.com/citations?hl=en&user=2wQ911AAAAAJ	1214	20	30
https://publons.com	https://publons.com/researcher/1349792/jasminka-giacometti			
Researchgate	https://www.researchgate.net/profile/Jasminka_Giacometti	822	17	RGscore 29,22
Scopus	https://www.scopus.com/authid/detail.uri?authorId=7005671402	725	16	
Web of Science		614	15	

Education and Employment

- Full profesor, tenure at the Department of Biotechnology, University of Rijeka, Croatia December, 2018
- Full Professor at the Department of Biotechnology, University of Rijeka, Croatia July, 2012-present
- Associate Professor at the Dept. of Chemistry and Biochemistry, School of Medicine, University of Rijeka, Croatia 2009-2012
- From young researcher to Associate Professor at the Dept. of Chemistry and Biochemistry, School of Medicine, University of Rijeka, Croatia 1990-2009
- Postgraduate studies at the Faculty of Chemical Engineering and Technology, University of Zagreb 1994-1999
Doctoral thesis: *Study of enzyme hydrolysis, esterification and transesterification*
- Master of Science program at the Faculty of Chemical Engineering and Technology, University of Zagreb 1990-1994
- Ministry of Interior, The Centre for Forensic investigations, Zagreb, Croatia 1987-1990
- Forensic toxicology expert

Research areas and Competences

Disciplines: Food Science, Analytical Chemistry, Biochemistry, Medicinal Chemistry, Science Education, Special Education

Skills and expertise: Chromatography; Biotechnology; Biochemistry; Food Chemistry; Phytochemicals; Antioxidants; Food Safety; Proteomics; Lipid Analysis; Lipid Metabolism; Bioactive Phenolics; Nutrition; Olive oil; Applied Biocatalysis; Lipase catalyzed reactions; Forensic Toxicology.

Teaching and Supervision

Teaching at undergraduate and graduate studies at Department of Biotechnology and School of Medicine, courses: Analytical chemistry, General and Organic Chemistry, Instrumental analysis, Biochemistry.

Elective courses at Department of Biotechnology and School of Medicine: Biocatalysts and Enzyme Technology, Gas-chromatography in lipid analysis, Biosensors in Medicine, Handling of Dangerous Substances, Protection of the Adriatic Sea against Pollution from Land-Based Sources, Arachidonic acid metabolism in physiological and pathological conditions, Prostaglandins E2 (PGE2) in pathological conditions, Metabolism of cyclooxygenases and lipoxygenases: clinical applications.

Grants and Project Management Skills

1. *Phenolic Compounds promote glucose transporter 4 (GLUT4) translocation and improve glucose uptake in tissues* (uniri-prirod-18-46), 2018-, PI, UNIRi support
2. *Potential application of cocoa polyphenols to the inhibition of liver fibrosis: continued research into the use of polyphenols* (no. 13.11.1.1.02.), 2014–2018, PI, UNIRi support
3. High voltage discharges for green solvent extraction of bioactive compounds from Mediterranean herbs - GREENVOLTEX, 2017-2021, CS Foundation, TM
4. *Enhancement of the stability and the bioavailability of selected phytochemicals using different delivery systems and mathematical modeling of an in vitro digestion model*, 2016-2017, TM, Bilateral project HR-SRB
5. *Genetics of phospholipid metabolism in schizophrenia* (no. 13.06.1.3.39.), 2014–2018, TM, UNIRi support
6. *Potential application of cocoa polyphenols to the inhibition of liver fibrosis* (no. 062-0000000-0221), 2006-2013, PI, MZOS
7. *Genetics of phospholipid metabolism in schizophrenia* (no. 062-0982522-0369), 2011-2013, TM, MZOS
8. *ADRIAFOOD - High throughput analytical platforms for Adriatic-brand food quality and authenticity* (2011-2013), CS Foundation, PI Prof. Jasna Peter-Katalinić: collaborator
9. Establishment of a Laboratory for Analytical Biotechnology and Proteomics at the Department of Biotechnology of the University of Rijeka, CS Foundation, 2011-2012, TM
10. International R&D projects with industrial partners on the development of new products phytoceuticals: Panaceo GmbH, Austrija (2012-2013)–development of olive leaf based supplements
11. *The effect of vegetable oils from diet on liver regeneration* (no. 0062002), 2001-2005, TM, MZOS
12. *The role of zinc in compensatory liver growth and immune function* (no. 3-01-514), 1993-1996, TM, MZOS
13. *Monitoring the content of triacylglycerols in the reactions catalysed by lipase interesterification* No. 125 042:, 1997-1999; HAZU Foundation, PI
14. *Biotransformations / Bioreactors*, (no. 125-021), 1996-1999. PI Prof. Đ. Vasić-Rački; TM
15. Establishment and procurement of equipment for the Laboratory for Olive Oil in the Primorsko-goranska County at the Department of Chemistry and Biochemistry (Faculty of Medicine, University of Rijeka, 1997;

Publications - summary

ISI journal publications: 35; Times cited: 725 (Scopus); H index: 16; book chapters: 5

Review and committees

49 verified reviews in scientific journals: Food Chemistry (WOS); Molecules (WOS); Food Research International (WOS); Journal of Food Quality (WOS); Journal of Functional Foods (WOS); Applied Sciences (WOS); Foods (WOS); LWT - Food Science and Technology (WOS); American Journal of Analytical Chemistry; BMC Complementary and Alternative Medicine (WOS); British Journal of Pharmacology (WOS); Food & Function (WOS); Food Technology and Biotechnology (WOS); Food and Chemical Toxicology (WOS); International Journal of Molecular Sciences (WOS); Journal of Applied Biomedicine (WOS); Journal of the Science of Food and Agriculture (WOS); Lipids (WOS); Separation and Purification Technology.

Memberships

Member of European Federation of Biotechnology (EFB), Croatian Society of Chemical Engineers, Zagreb (HDKIT), Croatian Chemical Society (CCS) and the Croatian Society of Biochemists and Molecular Biologists (HDBMB), Almae Matris Alumni Chemicae Ingeniariae Zagrabiensis (AMACIZ).

Technical skills and competencies

- Establishment and procurement of equipment for the Laboratory for Olive Oil in the Primorsko-goranska County at the Department of Chemistry and Biochemistry (Faculty of Medicine, University of Rijeka, 1997 – Gas chromatograph (GC-FID), High-performance liquid chromatograph (HPLC-UV/VIS-RI) and equipment for sample preparations at School of Medicine University of Rijeka.
- Establishment of the Forensic Toxicology Laboratory at the Department of Judicial Medicine (Faculty of Medicine, University of Rijeka, 2008 – GC-MS.

- Establishment, Supply of Equipment and Establishment of the Laboratory for Natural Products and Metabolomics at the Department of Biotechnology (University of Rijeka, 2012).
- Use and development of e-learning in teaching process, development of e-courses (from 2008-).
- International R&D projects with industrial partners on the development of new products phytoceuticals: Panaceo GmbH, Austrija (2012-2013)–development of olive leaf based supplements

List of chosen publications (2013-2020)

<https://portal.uniri.hr/portfelj/1527>

Book Chapters

1. Andjelkovic, Uroš; **Giacometti, Jasminka**; Josic, Djuro. Protein and Peptide Separations // Liquid Chromatography: Applications Handbooks in Separation Science, 2nd Edition / Fanali, Salvatore ; Haddad, Paul R. ; Riekkola, Marja-Liisa ; Poole, Colin (ur.). Amsterdam : Elsevier Inc., 2017. Str. 107-157.
2. **Giacometti, Jasminka**; Mazor Jolić, Slavica; Josić, Djuro. Cocoa Processing and Impact on Composition // Processing and Impact on Active Components in Food / Victor Preedy (ur.). Oxford : Academic Press Elsevier, 2015. Str. 605-612.
3. **Giacometti, Jasminka**; Josić, Djuro. Microbial proteomics for food safety // Proteomics in Foods / Toldrá, Fidel ; Nollet, Leo M. L. (ur.). New York : Springer, 2013. Str. 515-545.
4. **Giacometti, Jasminka**; Josić, Djuro. Protein and Peptide Separations // Liquid Chromatography, 1st Edition, Applications / Fanali, Salvatore ; Haddad, Paul R., Poole, Colin F. and Schoenmakers Peter J. (ur.). Amsterdam : Elsevier, 2013. Str. 149-184.

Scientific Papers

1. **Giacometti, Jasminka**; Milin, Čedomila; Giacometti, Fabio; Ciganj, Zlatko. Characterisation of Monovarietal Olive Oils Obtained from Croatian cvs. Drobznica and Buza during the Ripening Period. // Foods.7 (2018), 188. doi.org/10.3390/foods7110188 (IF 3,011; Q2)
2. **Giacometti, Jasminka**; Žauhar, Gordana; Žuvić, Marta. Optimization of Ultrasonic-Assisted Extraction of Major Phenolic Compounds from Olive Leaves (*Olea europaea* L.) Using Response Surface Methodology.// Foods. 7 (2018), 149. doi:10.3390/foods7090149 (IF 3,011; Q2)
3. **Jasminka Giacometti**, Danijela Bursać Kovačević, Predrag Putnik, Domagoj Gabric, Tea Bilušić, Greta Krešić, Višnja Stulić, J. Francisco Barba, Farid Chemat, Gustavo Barbosa-Canovas, Anet Režek Jambrak. Extraction of Bioactive Compounds and Essential Oils from Mediterranean Herbs by Conventional and Green Innovative Techniques: A Review, Food Research International 113 245-262 - 2018. (IF 3.575; Q1)
4. Elena Azzini, **Jasminka Giacometti**, and Gian Luigi Russo. Antioxidant Phytochemicals at the Pharma-Nutrition Interface – Editorial, Oxidative Medicine and Cellular Longevity 2017, 3 - 2017. (IF 4,41; Q1)
5. Vinceković, Marko; Viskić, Marko; Jurić, Slavena; **Giacometti, Jasminka**; Bursać Kovačević, Danijela; Putnik, Predrag; Donsi, Francesco; Barba, Francisco J., Režek Jambrak, Anet. Innovative technologies for encapsulation of Mediterranean plants extracts, Trends in Food Science & Technology 69 1-12 - 2017. (IF 6.609; Q1)
6. Azzini, Elena; **Giacometti, Jasminka**; Russo, Gian Luigi. Anti-obesity effects of anthocyanins in preclinical and clinical studies. // Oxidative Medicine and Cellular Longevity. (2017), 2017, 1-11. (IF 4,41; Q1)
7. Kulisic-Bilusic, Tea; Melliou, Eleni; **Giacometti, Jasminka**; Causevic, Amir; Corbo, Selma; Landeka, Marija; Magiatis, Prokopios. Phenolics, fatty acids and biological potential of selected Croatian EVOOs. // European journal of lipid science and technology. (2017), 119 (10) article 1700108. (IF 2,2; Q1)
8. **Giacometti, Jasminka**; Buretić-Tomljanović, Alena. Peptidomics as a tool for characterizing bioactive milk peptides. // Food chemistry. 230 (2017); 91-98. (IF 4,81; Q1)
9. **Giacometti, Jasminka**; Muhvić, Damir; Pavletić, Adriano; Đudarić, Luka. Cocoa polyphenols exhibit antioxidant, anti-inflammatory, anticarcinogenic and anti-necrotic activity in carbon tetrachloride-intoxicated mice. // Journal of Functional Foods. 23 (2016); 177-187. (IF 3,66; Q1)
10. Đudarić, Luka; Fužinac-Smojver, Ariana; Muhvić, Damir; **Giacometti, Jasminka**. The role of polyphenols on bone metabolism in osteoporosis. // Food research international. 77 (2015), Part 2; 290-298. (IF 3,44; Q1)
11. Nadalin, Sergej; **Giacometti, Jasminka**; Buretić-Tomljanović, Alena. PPARα-L162V polymorphism is not associated with schizophrenia risk in a Croatian population.//Prostaglandins leukotrienes and essential fatty acids. 91 (2014.), 5; 221-225. (IF 3,38; Q1)
12. Rashed, Khaled; Potočnjak, Iva; **Giacometti, Jasminka**; Škoda, Marko; Domitrović, Robert. Terminalia bellerica aerial parts ethyl acetate extract exhibits antioxidant, anti-inflammatory and antifibrotic activity in carbon tetrachloride- intoxicated mice. // Journal of functional foods. 8 (2014); 319-330. (IF 3,99; Q1)
13. **Giacometti, Jasminka**; Buretić Tomljanović, Alena; Josić, Đuro. Application of proteomics and metabolomics

for investigation of food toxins. // Food research international. 54 (2013), 1; 1042-1051. (IF 3,43; Q1)

14. **Giacometti, Jasminka**; Josić, Djuro. Foodomics in microbial safety. // TrAC - Trends in analytical chemistry. 52 (2013); 16-22. (IF 6,66; Q1)
15. Nadalin, Sergej; **Giacometti, Jasminka**; Jonovska, Suzana; Tomljanović, Draško; Buretić-Tomljanović, Alena. The impact of PLA2G4A and PTGS2 gene polymorphisms, and red blood cell PUFAs deficit on niacin skin flush response in schizophrenia patients. // Prostaglandins leukotrienes and essential fatty acids. 88 (2013), 2; 185-190. (IF 2,80; Q2)
16. Šrajer Gajdošik, Martina; Gašo-Sokač, Dajana; Pavlović, Hrvoje; Clifton, James; Breen, Lucas; Cao, Lulu; **Giacometti, Jasminka**; Josić, Đuro. Sample preparation and further proteomic investigation of the inhibitory activity of pyridinium oximes to Gram-positive and Gram-negative food pathogens. // Food research international. 51 (2013), 1; 46-52. (IF 3,43; Q1)