


DEPARTMENT FOR BOLOGY AND ECOLOGY Faculty of Science University of Kragujevac		Biographical and bibliographic information about the associate			
<b>Personal data</b>					
Name and surname		Ana Obradović			
The title		Research Associate			
<b>The institution where the researcher works full-time</b>					
Name		Faculty of Science, University of Kragujevac			
Date of establishment of the employment		25. 09. 2008.			
<b>Academic career</b>					
	Institution	Year	Field and acquired professional/scientific title		
Doctoral studies	Faculty of Biology, Belgrade	2020.	Biology, PhD in Biological Science		
Specialist studies	Faculty of Biology, Belgrade	2012.	Biology, Immunobiology specialist with microbiology		
Basic studies	Faculty of Science, Kragujevac	2007.	Biology, Graduate biologist		
<b>Election to the title</b>					
	Institution	Year	Scientific field		
Research Associate	Faculty of Science	2021.	Biology		
Research Assistant	Faculty of Science	2015. 2012.	Biology		
Junior Research Assistant	Faculty of Science	2009.	Biology		
<b>Engagement in the realisation of the classes</b>					
	Subjects				Study program <sup>1</sup>
<i>In the current accreditation program</i>					
1.	Experimental models and methods in molecular biology and physiology				MASMBP
2.	Cell Signaling Mechanisms				MASMBP
3.	Molecular Immunobiology				MASMBP
4.	Molecular and Cellular Physiology				MASMBP
<sup>1</sup> MASMBP - Master Academic Studies in Biology-Molecular Biology and Physiology					
<b>Selected scientific publication (5-10)</b>					
1.	Dimitrijevic Marina G, Roschger Cornelia, Lang Kevin, Zierer Andreas, Paunovic Milica G, <b>Obradovic Ana D</b> , Matic Milos M, Pocrnic Marijana, Galic Nives, Ciric Andrija R, Joksovic Milan D. Discovery of a new class of potent pyrrolo[3,4- c< ]quinoline-1,3-diones based inhibitors of human dihydroorotate dehydrogenase: Synthesis, pharmacological and toxicological evaluation. BIOORGANIC CHEMISTRY, 2024; 147:107359.				
2.	Vukić MD, Čmiková N, Hsouna AB, Saad RB, Garzoli S, Schwarzová M, Vuković NL, <b>Obradović AD</b> , Matić MM, Waszkiewicz-Robak B, et al. Thymus zygis, Valuable Antimicrobial (In Vitro and In Situ) and Antibiofilm Agent with Potential Antiproliferative Effects. Plants. 2023; 12(23):3920. <a href="https://doi.org/10.3390/plants12233920">https://doi.org/10.3390/plants12233920</a>				
3.	Mihailović V, Srećković N, Nedić ZP, Dimitrijević S, Matić M, <b>Obradović A</b> , Selaković D, Rosić G, Katanić Stanković JS. Green Synthesis of Silver Nanoparticles Using Salvia verticillata and Filipendula ulmaria Extracts: Optimization of Synthesis, Biological Activities, and Catalytic Properties. Molecules. 2023; 28(2):808. <a href="https://doi.org/10.3390/molecules28020808">https://doi.org/10.3390/molecules28020808</a>				
4.	Vukovic NL, Vukic MD, <b>Obradovic AD</b> , Matic MM, Galovičová L, Kačaniová M. GC, GC/MS Analysis, and Biological Effects of Essential Oils from Thymus mastchina and Elettaria cardamomum. Plants. 2022; 11(23):3213. <a href="https://doi.org/10.3390/plants11233213">https://doi.org/10.3390/plants11233213</a>				
5.	Vukic MD, Vukovic NL, <b>Obradovic AD</b> , Galovičová L, Čmiková N, Kačaniová M, Matic MM. Chemical Composition and Biological Activity of Tanacetum balsamita Essential Oils Obtained from Different Plant Organs. Plants. 2022; 11(24):3474. <a href="https://doi.org/10.3390/plants11243474">https://doi.org/10.3390/plants11243474</a>				

6.	Galovičová L, Čmiková N, Schwarzová M, Vukic MD, Vukovic NL, Kowalczewski PL, Bakay L, Kluz MI, Puchalski C, <b>Obradovic AD</b> , et al. Biological Activity of Cupressus sempervirens Essential Oil. Plants. 2023; 12(5):1097. <a href="https://doi.org/10.3390/plants12051097">https://doi.org/10.3390/plants12051097</a>
7.	Vukic MD, <b>Obradovic AD</b> , Vukovic NL, Kačanić M, Djurdjevic PM, Djelic GT, Matic MM. Chemical Composition, Antitumor Potential, and Impact on Redox Homeostasis of the Essential Oils of Orlygia grandiflora from Two Climate Localities. Molecules. 2022; 27(18):5908. <a href="https://doi.org/10.3390/molecules27185908">https://doi.org/10.3390/molecules27185908</a>
8.	Milena D. Vukic, Nenad L. Vukovic, <b>Ana Obradovic</b> , Milos Matic, Maja Djukic, Edina Adovic. Redox status, DNA and HAS binding study of naturally occurring naphthoquinone derivatives. EXCLI Journal (2020) 19, 48-70. ISSN: 1611-2156.
9.	<b>Obradović A</b> , Matic M, Ognjanović B, Đurđević P, Marinković E, Ušćumlić G, Božić B, Božić Nedeljković B. Antiproliferative and antimigratory effects of 3-(4-substituted benzyl)-5-isopropyl-5-phenylhydantoin derivatives in human breast cancer cells. Saudi Pharmaceutical Journal (2020) 28(3), 246-254.
10.	<b>Obradović A</b> , Matic M, Ognjanović B, Vuković N, Vukić M, Đurđević P, Ušćumlić G, Božić B, Božić Nedeljković B. Anti-Tumor Mechanisms of Novel 3-(4-Substituted Benzyl)-5-Isopropyl-5-Phenylhydantoin Derivatives on Human Colon Cancer Cell Line. Anti-cancer Agents Med Chem (2019) 19(12), 1491-1502.

### Mentorship<sup>3</sup> and participation in commissions for evaluation and defense of thesis

<b>Mentorship - 2</b> Masters thesis: 1 PhD dissertation <sup>4</sup> : 1	<b>Commissions - 8</b> Masters thesis: 7 PhD dissertation <sup>5</sup> : 1
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<sup>3</sup>total number; <sup>4</sup>defended and application <sup>5</sup>participation in application and defense

Summary of the results of the scientific work	
Total number of publications in international journals	24
Total number of citations	299
h-index	10

### Participation in the implementation of projects and scientific and professional studies

Status	Name of the project	Type of the project and financier <sup>2</sup>	Duration of projects
Researcher (R)			
R	Project CPCTAS, Centre for Pre-Clinical testing of Active Substances, FP7-REGPOT-2007-3 Grant agreement 206809	<i>I-INTERNATIONAL</i>	2008-2011
R	Preclinical tests of bioactive substances, PIBAS. Registration number III41010	<i>D/F, MESTRS</i>	2011-2018
R	Biomarkers in neurodegenerative and malignant processes, project manager prof. dr Pavle Andus, Faculty of Biology, University of Belgrade, Registration number III45001	<i>D/F, MESTRS</i>	2018-2019

<sup>2</sup>Type of project:  
*D/F-domestic fundamental, I-international*  
*MESTRS-Ministry of Education, Science and Technological Development of the Republic Serbia*

Scientific training and study stays		
Institution	Country	Duration
Faculty of Science and Mathematics in Skopje, Institute of Biology	Republic of North Macedonia	April, 2011
Cell Science & Engineering 30 h course within the Slovenian Research Program in Cell Physiology, University of Ljubljana	Serbia	November, 2015
8 <sup>th</sup> EFIS/EJI SOUTH EAST EUROPEAN IMMUNOLOGY SCHOOL (SEEIS2016), School of Immunology, Durrës, Albania	Albania	October, 2016

Foreign language knowledge
English
French

Membership in professional and scientific associations
Society of Immunologists of Serbia
Society of Physiologists of Serbia
Serbian Society for Mitochondrial and Free-Radical Physiology
Biochemical Society of Serbia
Serbian Association for Proteomics
Serbian Society for Molecular Biology
Serbian Biological Society "Stevan Jakovljević" Kragujevac

Society for Free Radical Research Europe (SFRR Europe) European Proteomics Association (EuPA) Conferences & Communication Committee
<b>Reviews of scientific manuscript, monographs, projects, study programs</b>
Reviews of scientific manuscript published in international scientific journals: Food Bioscience Anti-Cancer Agents in Medicinal Chemistry
<b>Educational and scientific cooperation with other higher education and scientific institutions</b>
Institute of Virology, Vaccines and Serums "Torlak" Institute of Microbiology and Immunology, Laboratory of Immunology, Faculty of Medicine, Belgrade Institute for Nuclear Sciences "Vinča", University of Belgrade Faculty of Biology, University of Belgrade Faculty of Medical Sciences, University of Kragujevac Institute for Information Technologies Kragujevac, University of Kragujevac Faculty of Science and Mathematics, University of Niš
<b>International and national awards and recognitions</b>
Participation in trainings and winning second place in the competition for the best student idea within the international project WBCInno, at the Serbian Chamber of Commerce in Belgrade, 2015. Participation in trainings and competition for the best student idea within the international project IF4TM, 2017.
<b>Contribution to the promotion of Faculty and University</b>
She actively participated in the promotion of science and the Faculty of Science at various festivals and other events in the service of promotion
<b>Other relevant data</b>
Coordination and participation in experimental work during the preparation of Graduation, Master and PhD theses of biology students at Faculty of Science in Kragujevac in the field of Animal and Human Physiology and Molecular Biology. From 2012-2016, she was hired for the accreditation of the Laboratory for Cellular and Molecular Biology (SRPS ISO/IEC 17025:2006, accreditation number 01-367) at the Faculty of Science in Kragujevac.

**Contact details:**

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