


DEPARMENT FOR BOLOGY AND ECOLOGY
FACULTY OF SCIENCE
UNIVERSITY OF KRAGUJEVAC

**Biographical and
bibliographic
information about the
professor**



Personal data

Name and surname	Branka Ognjanović	
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The title **Full professor**

The institution where the professor works full-time

Name	Faculty of Science, University of Kragujevac
Date of establishment of the employment	08.06.1989.

Academic career

	Institution	Year	Scientific field/scientific title
PhD degree	Faculty of Science	2001.	Animal and human physiology and molecular biology - PhD in Biological Science
M.Sc. degree	Faculty of Biology, University of Belgrade	1993.	Biology, Master of Biological Sciences
B.Sc. degree	Faculty of Science	1987.	Graduated biologist

Election to the title

	Institution	Year	Field of Expertise
Full Professor	Faculty of Science	2016.	Animal and human physiology and molecular biology
Associate Professor	Faculty of Science	2010.	Animal and human physiology and molecular biology
Assistant Professor	Faculty of Science	2005.	Animal physiology
Assistant	Faculty of Science	1989.	Animal physiology

Teaching Experience

	Name of the Course	Study program
<i>In the current accreditation period</i>		
1.	General physiology	BASB
2.	Comparative physiology	BASB
3.	Behavioral physiology	BASB
4.	Endocrinology	BASB
5.	Neurobiology	BASB
6.	Animal ecotoxicology	BASE
7.	Psychophysiology	BASP
8.	Fundamentals of toxicological analyses with elements of ecotoxicology	BAEES
9.	Biomedical physiology	MASB
10.	Experimental models and methods in molecular biology and physiology	MASMBP
11.	Cellular signaling mechanisms	MASMBP
12.	Biophysical systems and environment	MASC
13.	Systemic physiology	PhD Biology

14.	Toxicology	PhD Biology
<i>In an earlier period</i>		
1.	General physiology with biophysics	BB
2.	Biology teaching methodology	BB
3.	Animal ecophysiology and physiological foundations of animal toxicology	BE
4.	Natural resources and protection	BE
5.	Biophysical systems and environment	BC
6.	General physiology	BASB
7.	Comparative physiology	BASB
8.	Ecophysiology physiology	BASE
9.	Biomedical physiology	MASB
10.	Endocrinology	MASB
11.	Animal ecotoxicology	MASB
12.	Molecular integrative physiology	MASMB
13.	Natural resources and protection	MASB
14.	Ecotoxicology	MASE
15.	Biophysical systems and environment	MASC
16.	Systemic physiology	PhD Biology
17.	Toxicology	PhD Biology
18.	Antioxidant protection of aerobic organisms	PhD Biology
Authorship of university literature		
1.	Practicum in General Physiology with workbook	
2.	General physiology	
3.	Molecular aspects of cell physiology	
4.	Basics of neurophysiology	
Mentorship 3 and participation in commissions for evaluation and defense of thesis		
Mentoring - 70 Diploma theses: 49 M. Sc. Theses: 18 Specialized works: Master's degrees: Ph.D. Theses ⁴ : 3		Commissions - 103 Diploma theses: 59 M. Sc. Theses: 29 Specialized works: 1 Master's degrees: 1 Ph.D. Theses: 12
³ укупан број; ⁴ одбрањене и пријављене; ⁵ учешће у пријави и одбрани		
Participation in committees for the selection of teachers and associates		
Assistant: 8 Assistant with PhD: 2 Assistant Professor: 8 Associate Professor: 4 Full Professor: 1		Research Assistant Junior: 10 Research Assistant: 6 Research Associate: 5 Senior Research Associate: 3 Principal Research Fellow: 1
Selected scientific publication (5-10)		
1.	Ognjanović BI , Marković SD, Đorđević NZ, Trbojević IS, Štajn AŠ, Saičić ZS. Cadmium-induced lipid peroxidation and changes in antioxidant defense system in the rat testes: Protective role of coenzyme Q ₁₀ and vitamin E. <i>Reproductive Toxicology</i> , 2010, 29(2), 191-197. M21	
2.	Ognjanović BI , Đorđević NZ, Matić MM, Obradović JM, Mladenović JM, Štajn AŠ, Saičić ZS. Lipid peroxidative damage on cisplatin exposure and alterations in antioxidant defense system in rat kidneys: a possible protective effect of selenium. <i>International Journal of Molecular Sciences</i> , 2012, 13, 1790-1803. M21	
3.	Prokić MD, Paunović MG, Matić MM, Djordjević NZ, Ognjanović BI , Štajn AŠ, Saičić ZS. Prooxidative effects of aspartame on antioxidant defense status in erythrocytes of rats. <i>Journal of Biosciences</i> 2014, 39(5), 859-866. M21	
4.	Paunović GM, Matić MM, Ognjanović IB , Saičić SZ. Antioxidative and haematoprotective activity of coenzyme Q ₁₀ and vitamin E against cadmium-induced oxidative stress in Wistar rats. <i>Toxicology and Industrial Health</i> , 2017, 33(10), 746-756. M22	
5.	Milošević MD, Paunović MG, Matić MM, Ognjanović BI , Saičić ZS. Role of selenium and vitamin C in mitigating oxidative stress induced by fenitrothion in rat liver. <i>Biomedicine & Pharmacotherapy</i> , 2018, 106, 232-238. M21	
6.	Obradović A, Matić 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. <i>Saudi Pharmaceutical Journal</i> , 2020, 28(3), 246-254. M21	

7.	Matić M. Miloš, Paunović G. Milica, Milošević D. Marija, Ognjanović I. Branka , Saičić S. Zorica. Hematoprotective effects and antioxidant properties of β -glucan and vitamin C against acetaminophen-induced toxicity: an experimental study in rats. <i>Drug and Chemical Toxicology</i> , 2021, 44(3), 302-309. M22		
8.	Paunović, G. Milica, Matić, M. Miloš, Stanković, D. Vesna, Milošević, D. Marija, Jevtić, V. Verica, Trifunović, R. Srećko, Ognjanović, I. Branka . Evaluation of Toxic Effects of Novel Platinum (IV) Complexes in Female Rat Liver: Potential Protective Role of Resveratrol. <i>Cell Biochemistry and Biophysics</i> , 2021, 79(1), 141-152. M23		
9.	Paunović G. Milica, Matić M. Miloš, Obradović D. Ana, Jevtić V. Verica, Stojković L. Danijela, Ognjanović I. Branka . Antiproliferative, antimigratory, and prooxidative potential of novel platinum (IV) complexes and resveratrol on breast cancer (MDA-MB-231) and choriocarcinoma (JEG-3) cell lines. <i>Drug Development Research</i> , 2022, 83(3), 688-698. M22		
10.	Milošević D. Marija, Mašković Z. Pavle, Stanković D. Vesna, Paunović G. Milica, Mitić N. Milan, Matić M. Miloš, Ognjanović I. Branka . Protective effects of <i>Viscum album</i> L. leaf extract on chlorpyrifos-induced hepatotoxicity in Wistar rats. <i>Journal of King Saud University-Science</i> , 2022, 34(4). doi: 10.1016/j.jksus.2022.101957. M21		
Summary of the results of the scientific work			
Total number of publications	282		
Total number of publications in international journals	54		
Total number of citations	2125 (Google Scholar)		
<i>h</i> -index	18		
Participation in the implementation of projects and scientific and professional studies			
Status	Name of the project	Type of the project and financier²	Duration of projects
Researcher (R)			
R	Examining the role of selenium in the plant and animal world	<i>O/T</i> – other types of projects	1990-1992
R	The role of free radical balance in establishing and maintaining homeostasis. Subproject: Toxic effects of some agents on the antioxidant defense system (03E18)	<i>D/F</i> –domestic fundamental, <i>MESTRS</i>	1996-2000
R	Research and creation of an integrated system of food production and agricultural raw materials from primary to high-value products of higher stages of processing - food quality control. Subproject: Enzymes of the antioxidant system - food quality indicators (03E23)	<i>D/F</i> –domestic fundamental, <i>MESTRS</i>	1996-2000
R	Systemic response to altered cellular redox status (1669)	<i>D/F</i> –domestic fundamental, <i>MESTRS</i>	2000-2005
R	State of bioindicators of pollution of the Montenegrin coast. Project of the Federal Secretariat for Labor, Health and Social Affairs and the Secretariat for Environmental Protection	<i>D/D</i> -domestic development	2003-2005
R	Study of homeostasis disorders and determination of oxidative stress biomarkers in aerobic organisms (143035B)	<i>D/F</i> –domestic fundamental, <i>MESTRS</i>	2006-2010
R	Molecular physiological biomonitoring of aerobic organisms based on the determination of biochemical biomarkers of oxidative stress (173041)	<i>D/F</i> –domestic fundamental, <i>MESTRS</i>	2011-2020
R	FP7 Project "Centre for Pre-Clinical Testing of Active Substances" (FP7 206809 CPCTAS)	<i>I</i> –international	2008-2011
² Type of project: <i>D/F</i> –domestic fundamental, <i>I</i> –international, <i>O/T</i> – other types of projects, <i>D/D</i> -domestic development <i>MESTRS</i> –Ministry of Education, Science and Technological Development of the Republic Serbia			
Scientific training and study stay			
Institution		Country	Duration
Institute for Biological Research "Siniša Stanković", University of Belgrade		Serbia	6 months
Foreign language knowledge			
English			
Membership in professional and scientific associations			
Society of Physiologists of Serbia Serbian Society for Mitochondrial and Free-Radical Physiology Serbian Biological Society "Stevan Jakovljević" Kragujevac Society for Free Radical Research			
Participation in the work of bodies and organs of the Faculty and University, management			
- Participation in the work of the commission for the preparation of accreditation documents for the study programs of the Bachelor's and Master's academic studies in Biology and Ecology (in 2008 and 2012); - Participation in the work of the commission for the preparation of accreditation documents for the Master's degree program in Molecular Biology and Physiology (in 2022);			

- Participation in the work of the commission for the preparation of accreditation documents for the study program of Basic Academic Studies in Biology - Molecular Biology module (in 2023);
- Member of the Commission for the Enrollment of Candidates for the Bachelor's and Master's Academic Studies in Biology and Ecology, Faculty of Science and Mathematics, University of Kragujevac;
- Member of the Commission for the Enrollment of Candidates for Doctoral Academic Studies in Biology, Faculty of Natural Sciences and Mathematics, University of Kragujevac;
- Member of the Teaching and Scientific Council of the Faculty of Science and Mathematics, University of Kragujevac (2012-2015; 2015-2018; 2018-2021; 2021-2024);
- President of the Ethics Committee for the Protection of the Welfare of Experimental Animals of the Faculty of Science and Mathematics, University of Kragujevac (2014-2017; 2017-2020; 2020-2023);
- Member of census committees at the Faculty of Natural Sciences and Mathematics (several years);
- Participation in the organization of various events that improve the reputation and contribute to the promotion of the Faculty and the University (Science Festivals, Researchers' Night, Faculty Open Doors);
- Member of the Professional Ethics Committee of the University of Kragujevac (2018-2020);
- Member of the Council for Natural and Mathematical Sciences of the University of Kragujevac (2019-2022; 2022-2025).

Reviews of scientific manuscript, monographs, projects, study programs

Reviews of scientific manuscript published in international scientific journals:

Fresenius Environmental Bulletin, Ecotoxicology and Environmental Safety, Free Radical Research, Food Chemical and Toxicology, Physiology Research, Environmental Toxicology and Pharmacology, Toxicology and Industrial Health, Drug and Chemical Toxicology

Practicum reviews:

- "Experimental Biochemistry - Practicum", Dr. Nevena H. Đukić, Associate Professor, Faculty of Science, University of Kragujevac. (Decision of the Teaching and Scientific Council of the Faculty of Science in Kragujevac - number 350/X-1 of 15.05.2013.).
- „Practical course in general physiology“, Dr. Slaviša M. Milošević, Assistant professor, Faculty of Sciences and Mathematics, University of Priština, Kosovska Mitrovica. (Decision of the Teaching and Scientific Council of the Faculty of Natural Sciences and Mathematics, University of Pristina, temporarily settled in Kosovska Mitrovica, - number 89/1 of 10.06.2015.).

Review of the university book:

- „Introduction to Enzymology - basic book“, Dr. Nevena H. Đukić, Associate professor, Faculty of Science, University of Kragujevac. (Decision of the Teaching and Scientific Council of the Faculty of Science in Kragujevac - number 260/XV-1 of 24.06.2020.).

Membership in working bodies of scientific meetings

- The first congress of Physiological Sciences of Serbia and Montenegro with international participation: "Molecular, cellular and integrative basis of health, disease and therapy". November 9-12, 2005, Belgrade.
- 2nd Congress of Physiological Sciences of Serbia with International Participation "Current trends in physiological sciences", September 17-20, 2009, Kragujevac.
- 3rd Congress of Physiological Sciences of Serbia with International Participation "Molecular, cellular and integrative basis of health and disease: transdisciplinary approach". October 29-31, 2014, Belgrade.
- Third Congress, "REDOX MEDICINE: Reactive species signaling, analytical methods, phytopharmacology, molecular mechanisms of disease". September 25-26, 2015, Belgrade.
- Membership in the program committees of domestic scientific meetings: 2009 First Congress in Belgrade, 2011 Second Congress in Belgrade and 2013 Third Congress in Niš, organized by the Serbian Society for Mitochondrial and Free Radical Physiology.
- Organizing committee of two scientific symposia with international participation at the Faculty of Science in Kragujevac under the title „Oxidative Stress and Mechanisms of Protection“ – (May 2004 and November 2006)

Educational and scientific cooperation with other higher education and scientific institutions

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
Institute for Biological Research „Siniša Stanković“, University of Belgrade
Faculty of Agronomy-Čačak, University of Kragujevac
Faculty of Natural Sciences and Mathematics, University of Novi Sad

Contribution to the promotion of Faculty and University

- Co-author and implementer of accredited seminars for professional development of biology teachers and professors in primary and secondary schools, verified by the Ministry of Education and Sports of the Republic of Serbia: 3 seminars for biology teachers and professors - Catalog for the 2003/2004 school year, 1 seminar - Catalog for 2006/2007; and 2 seminars approved by the Institute for the Improvement of Education: Catalog for 2011/2012 and 2012/2013.
- Since 1998, he has participated in the organization and management (deputy president and president) of the Serbian Biological Society „Stevan Jakovljević“ in Kragujevac.
- Author of the monograph: Žikić R.V., Pešić S., Ognjanović B. 60 years of the Serbian Biological Society and the Serbian Biological Society "Stevan Jakovljević" in Kragujevac (1949-2009). 2010, 1-160. ISBN: 978-86-6009-002-9.
- Author of the monograph: Ognjanović B, Stanković M, Đelić G, Bojović B. 20 years of the Serbian Biological Society "Stevan Jakovljević" Kragujevac (1999-2019). 2021, 1-150.
- ISBN: 978-86-6009-080-7.
- Organization of two scientific symposia with international participation at the Faculty of Science in Kragujevac under the title „Oxidative Stress and Mechanisms of Protection“ - May 2004 and November 2006.
- She led the development of 2 scientific research papers and participated in the work of the Biology Commission of the Regional Talent Center in Kragujevac.

Contact details:

e-mail: branka.ognjanovic@pmf.kg.ac.rs

phone: 034/336-223, ext. 263

Office: A-I-4