

PERSONAL INFORMATION

Name and surname	Jasmina Obradovic
Date and place of birth	February 1 st , 1981, Petrovac na Mlavi, Serbia
Scientific title	Research Associate
E-mail	jasmina.obradovic@uni.kg.ac.rs jasmina.m.obradovic@gmail.com
Educational-scientific / educational-artistic field	Biology
University, Faculty, Organizational unit	University of Kragujevac, Institute for Information Technologies, Department of science, Laboratory for Bioinformatics and Applied Biology
Research field and areas	Biology-Molecular biology

EDUCATION

MASTER STUDIES

Year	2007
Place	Kragujevac, Serbia
Institution	Institute of Biology and Ecology, Faculty of natural sciences, University of Kragujevac, Serbia.

DOCTORAL DISSERTATION

Year	2015
Place	Kragujevac, Serbia
Institution	Institute of Biology and Ecology, Faculty of natural sciences, University of Kragujevac, Serbia.

Title of doctoral dissertation	Epidermal growth factor receptor gene variants in non-small cell lung cancer patients
Scientific title	Doctor of Biological Sciences/ Research Associate
Research area	Biology

PROFESSIONAL BIOGRAPHY–ELECTION IN RESEARCH OR SCIENTIFIC TITLE

Date	Institution	Scientific title
08.04.2009.	Institute of Biology and Ecology, Faculty of natural sciences, University of Kragujevac, Serbia.	Junior research assistant
20.06.2012.	Institute of Biology and Ecology, Faculty of natural sciences, University of Kragujevac, Serbia.	Research assistant
30.11.2016.	Institute of Biology and Ecology, Faculty of natural sciences, University of Kragujevac, Serbia.	Research Associate
23.09.2021.	Institute for Information Technologies, Department of science, Laboratory for Bioinformatics and Applied Biology, University of Kragujevac	Research Associate, re-election

PROFESSIONAL BIOGRAPHY - TRAINING

Year	Institution	Duration
9. 11. 2015.	Cell Science and ingeneering, 30 h of the course From Slovenian Research Programme in Cell Physiology, Medicinska fakulteta Univerza u Ljubljani, Prof. Robert Zorec , Cell Science and ingeneering, Faculty of Engineering, Kragujevac	4 days

20.04.2016.	Flow cytometer, Faculty of Medical Sciences, BD Biosciences, Kragujevac.	3 days
15.11. 2018.	Flow cytometer and Luminex tehnologija, Thermo Scientific and RTC, Seminar, Novi Sad.	1 day
17.01.2019.	Analysis of Genomic Data on the Galaxy Platform, Training-Laboratory for bioinformatics and computational chemistry, Vinča Institute, Belgrade	2 day
05.02.2020.	FoodEnTwin Winter School 2020, Proteomics: From sample preparation to practical aspects, University of Belgrade-Faculty of Chemistry, and FoodEnTwin project, Belgrade	3 day
04.07.2019.- 01.10.2019.	Introduction to meta analysis, Johns Hopkins University, Coursera, on line course	3 months
06.12.2021.- 31.03.2022.	Data Visualization & Dashboarding with R Specialization; Collin Paschall, Johns Hopkins University, Coursera Specialization comprise five courses: <ul style="list-style-type: none"> • Getting Started with Data Visualization in R; • Data Visualization in R with ggplot2; • Advanced Data Visualization with R; • Publishing Visualizations in R with Shiny and flexdashboard; • Data Visualization Capstone 	4 months
08.04.2022.- 30.09.2022.	Biostatistics in Public Health Specialization, John McGready, PhD, MS, Johns Hopkins University, Coursera. Specialization comprise four courses: <ul style="list-style-type: none"> • Summary Statistics in Public Health, • Hypothesis Testing in Public Health, • Simple Regression Analysis in Public Health, • Multiple Regression Analysis in Public Health 	6 months

ENGAGEMENT IN THE FORMATION OF SCIENTIFIC PERSONNEL

1. Jasmina M. Obradović directly participated in the work with the students of Doctoral Academic Studies in Biology. She was a member of the commission for evaluating the scientific basis of the topic and the fulfillment of the requirements of candidate Jovana V. Todosijević. Jovana V. Todosijević, "Frequency and significance of GSTM1, GSTT1 and EGFR gene variants in brain tumors of glial origin", Faculty of Science; University of Kragujevac, 2021 (decision number: 230/IX-1 dated April 28, 2021).
2. Participation in the commission for writing a report for the re-election to the title of Research associate of the candidate Dr. Aleksandra Milošković, (decision number: 01-1333/8 dated September 20, 2022)

PARTICIPATION IN NATIONAL PROJECTS FINANCED BY MINISTRY OF EDUCATION/MINISTRY OF SCIENCE AND TECHNOLOGICAL DEVELOPMENT/SCIENCE FUND OF THE REPUBLIC OF SERBIA:

Project manager: Prof. Dr. Vladimir Jurišić
Project name: "Molecular, biochemical and immunological analyzes in tumor diagnostics"
University: University of Kragujevac
Period: 2011-2019
Project number: OI 175056

PARTICIPATION IN INTERNATIONAL PROJECTS

Project manager: Prof. Dr. Vladimir Jurišić
Project name: "The importance of molecular biology in the diagnosis and therapy of lung tumors", University: Center for Biomedical Research, Medical Faculty of Foča, University of East Sarajevo
Period: 2014-2015
Project number: 19/6-020/961-123/14

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS

A member of the Serbian Society for Molecular Biology since June 30, 2015
Member of the Serbian Society of Cancer Researchers, from January 24, 2022.
Member of EACR, from 01.02.2022.

LIST OF SCIENTIFIC PAPERS:

Papers published in scientific journals of international scientific importance	Sum 12
<ol style="list-style-type: none"> <li data-bbox="236 409 1402 745">1. Ognjanović BI, Djordjević NZ, Matić MM, <u>Obradović JM</u>, 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. ISSN: 1422-0067 doi:10.3390/ijms13021790 (IF 2,598-2011. 45/154: Chemistry, Multidisciplinary) <li data-bbox="236 757 1402 1093">2. Jurisic VB, <u>Obradovic JM</u>, Tosic NM, Pavlovic ST, Kulic M, Djordjevic ND. Effects of DMSO, glycerol, betaine and their combinations in detecting single nucleotide polymorphisms of epidermal growth factor receptor (EGFR) gene promoter sequence in non-small-cell lung cancer (NSCLC) patients. <i>Journal of Pharmaceutical and Biomedical Analysis</i>, 2016, (128), 275-279. ISSN: 0731-7085 doi: https://doi.org/10.1016/j.jpba.2016.05.010 (IF 3,255-2016. 70/257: Pharmacology & Pharmacy) <li data-bbox="236 1104 1402 1350">3. Glišić R, Koko V, Cvijić G, Milošević M, <u>Obradović J</u>. Cholecystokinin-producing (I) cells of intestinal mucosa in dexamethasone-treated rats. <i>Regulatory Peptides</i>, 2011; 171 (1-3): 6-10. ISSN: 0167-0115 doi:10.1016/j.regpep.2011.05.012, (IF 2,473-2010, 32/78: Physiology) <li data-bbox="236 1361 1402 1653">4. <u>Obradovic J</u>, Jurisic V, Tosic N, Mrdjanovic J, Perin B, Pavlovic S, Djordjevic N. Optimization of PCR conditions for amplification of GC-rich EGFR promoter sequence. <i>Journal of Clinical Laboratory Analysis</i>, 2013; 27(6):487-493. ISSN: 0887-8013 doi: 10.1002/jcla.21632; (IF 1,356-2012., 18/32: Medical Laboratory Technology) <li data-bbox="236 1664 1402 2000">5. <u>Obradovic JM</u>, Djordjevic ND, Tosic NM, Mrdjanovic JZ, Stankovic BB, Stanic J, Zaric B, Perin BM, Pavlovic ST, Jurisic VB. Frequencies of EGFR single nucleotide polymorphisms in non-small cell lung cancer patients and healthy individuals in the Republic of Serbia: a preliminary study. <i>Tumor Biology</i>, 2016, 37(8), 10479-10486. ISSN: 1010-4283 doi 10.1007/s13277-016-4930-4 (IF 3,650-2016. 81/217: Oncology) <li data-bbox="236 2011 1402 2040">6. Jurisic V, Vukovic V, <u>Obradovic J</u>, Gulyaeva LF, Kushlinskii NE, Djordjevic 	

N. EGFR Polymorphism and Survival of NSCLC Patients Treated with TKIs: A Systematic Review and Meta-Analysis. *Journal of Oncology*, 2020, vol. 2020,1973241.

ISSN: 1687-8450

PMID: 32256580; PMCID: PMC7104312.

doi: 10.1155/2020/1973241

(IF 4.375-2020. 115/243: Oncology)

7. **Obradovic J**, Jurisic V. Evaluation of current methods to detect the mutations of epidermal growth factor receptor in non-small cell lung cancer patients. *Multidisciplinary Respiratory Medicine*. 2012; 7(1):52.

ISSN: 1828-695X

doi: 10.1186/2049-6958-7-52;

(IF 0,050-2011. 48/48: Respiratory System)

8. Elez-Burnjakovic N, Ugrin M, **Obradovic JM**, Miletic N, Racic M, Kulic M, Pavlovic ST, Jurisic VB. Distribution of EGFR SNPs-191C/A and 181946G/A in patients with lung cancer depending on smoking status in the Republic of Srpska, Bosnia and Herzegovina. *Journal of Buon* 2018, 23 (2), 384-390.

ISSN 1107-0625

PMID: 29745081

(IF 1,766-2017. 189/223: Oncology)

9. Jurišić V, **Obradovic J**, Pavlović S, Djordjevic N. Epidermal Growth Factor Receptor Gene in Non-Small-Cell Lung Cancer: The Importance of Promoter Polymorphism Investigation. *Analytical Cellular Pathology*. 2018; 2018:6192187.

ISSN: 2210-7177

(IF 1,574-2017. 197/223: Oncology)

10. **Obradovic J**, Todosijevic J, Jurisic V. Application of the conventional and novel methods in testing EGFR variants for NSCLC patients in the last 10 years through different regions: a systematic review. *Molecular Biology Reports*, 2021. doi: 10.1007/s11033-021-06379-w. PMID: 33973139

ISSN 0301-4851

<https://doi.org/10.1007/s11033-021-06379-w>

(IF 2.316-2020. 238/296: Biochemistry & Molecular Biology)

11. Vladimir Jurisic, **Jasmina Obradovic**, Nadja Nikolic, Jovan Javorac, Branislav Perin, Jelena Milasin. Analyses of P16 INK4a gene promoter methylation relative to molecular, demographic and clinical parameters characteristics in non-small cell lung cancer patients: A pilot study. *Molecular Biology Reports*, 2022.

<https://doi.org/10.1007/s11033-022-07982-1>

ISSN 0301-4851 Published online November 15, 2022.

(IF 2.742-2021. 237/297: Biochemistry&Molecular Biology)

12. **Jasmina Obradovic**, Jovana Todosijevic, Vladimir Jurisic. Side effects of tyrosine kinase inhibitors therapy in the non-small cell lung cancer patients

and associations with the EGFR polymorphisms: a systematic review and meta-analysis. *Oncology Letters*, 2022. *In press
ISSN 1792-1074
(IF 3.111-2021. 176/245: Oncology)

Proceedings of international scientific conferences

Sum

15

1. Todosijević J, Luković J, **Obradović J**, Jurišić V. Basic research of lung cancer in-vitro: measurement methods, new possibilities and perspective. *Rap conference proceedings*, 5, 44–50, 2020.
ISSN 2737-9973 (Online)
doi: 10.37392/RapProc.2020.11
2. **Obradovic JM**, Jurisic VB. Search procedure and data extraction for meta-analysis in biomedical research.
1st International Conference on Chemo and Bioinformatics,
October 26-27, 2021. Kragujevac, Serbia.
doi:10.46793/ICCBI21.1900
ISBN 978-86-82172-01-7
3. **Jasmina Obradovic**, Vladimir Jurisic. Sensitivity and specificity of the assays in the Covid-19 pandemic. *RAP Conference Proceedings*, vol. 7, pp. 1–4, 2022
ISSN 2737-9973 (online) *In press
doi: 10.37392/RapProc.2022.00
rap-proceedings.org
4. **Milovanović JM**, Ognjanović BI, Trbojević IS, Mladenović JM, Djordjević NZ, Marković SD, Štajn AŠ, Saičić ZS. Cisplatin induced changes in antioxidative defense enzyme activities in the rat kidneys: Protective role of selenium.
2nd Congress of Physiological Sciences of Serbia with International Participation "Current trends in physiological sciences" Abstract P98.
September 17-20, 2009, Kragujevac, Serbia
5. Mladenović JM, Ognjanović BI, Trbojević IS, **Milovanović JM**, Djordjević NZ, Marković SD, Štajn AŠ, Saičić ZS. Protective effect of vitamin C on antioxidant defense system in the liver of rats treated with cisplatin.
2nd Congress of Physiological Sciences of Serbia with International Participation "Current trends in physiological sciences" Abstract P99.
17.09.2009-20.09.2009, Kragujevac, Serbia
6. Trbojević IS, Ognjanović BI, **Milovanović JM**, Mladenović JM, Djordjević NZ, Marković SD, Štajn AŠ, Saičić ZS. Role of selenium in ameliorating the cisplatin induced oxidative damage to kidney and liver in rats.
2nd Congress of Physiological Sciences of Serbia with International Participation "Current trends in physiological sciences" Abstract P103.
17.09.2009-20.09.2009, Kragujevac, Serbia
7. **Obradovic JM**, Jurisic V. Frequency of specific methods for the detection of

EGFR in lung tumors.

Acta Physiologica, (2014), vol. 211. p. 70-70

27.08.2014.-30.08.2014. Budapest, Hungary

8. Jurišić V, **Obradović J.** Effects of different additives for detection of single nucleotide polymorphisms in promoter sequence EGFR gene in NSCLC. European Journal Of Cancer, (2014), vol. 50, S91-S91. 05.07.2014.- 08.07.2014. Germany
9. Jurišić V, **Obradović J.** Amplification of single nucleotide polymorphisms of the EGFR gene promoter sequence in NSCLC patients. WIN2014, Winning combination for precise cancer medicine (M31), WIN Consortium, 11. P3.03-P3.03 23.06.2014 - 24.06.2014. France
10. Jurišić V, **Obradović J.** Significance of estimation EGFR and their polymorphisms 216GT(rs71289), -191CA(rs12830) and 181946CT (D994D) (rs2293347) in non small-cell lung cancer. 43th ISOBM Annual Congress of International Society of Oncology and Biomarkers 2016, Springer, 2016, USA 01.09.2016-06.09.2016. Chicago, United States 37 supp. 1, 1010-4283, S8- s9 <https://isobm2016congress.com/sponsors/springer/>
11. Jurišić V, **Obradović J.** Evaluation of current methods to detect the mutations of epidermal growth factor receptor in Non-small cell lung cancer patients. 27th international congress on anti-cancer treatment: (ICACT 2016) ICACT.fr1, 1. p.6-7 02.02.2016.-04.02.2016., 2016 France <http://www.wisepress.com/exhibitions/anti16/printable-pdf/>
12. Elez-Burnjaković N, Ugrin M, **Obradović J.** Miletić N, Račić M, Kulić M, Pavlović S, Jurišić V. Investigation of epidermal growth factor receptor polymorphism of lung cancer patients. First Congress of Molecular Biologists of Serbia with international participation; 122 Belgrade, Serbia, 20.09.2017. – 22.09.2017.
13. **Obradović J.** Tošić N, Stanković B, Pavlović S, Jurišić V. Single nucleotide polymorphisms in the EGFR gene in NSCLC patients. Enable/Radboud New Frontiers Symposium - Next-generation life scientists: Side by side to break new ground, pp 104 13.11.2019 – 15.11.2019, Nijmegen, Netherlands
14. Jurisic, V; **Obradovic, J.**; Pavlovic, S. Effects of two kits for amplification of EGFR single nucleotide polymorphisms:-191 C/A (rs712830) and 181946 G/A (rs2293347) which contained high GC rich region. FEBS OPEN BIO, 9 (1): 92-92, Meeting Abstract: P-02-002 Published: JUL 2019 Publisher WILEY, 111 RIVER ST, HOBOKEN 07030-

5774, NJ USA,

Categories / Classification Research Areas: Biochemistry & Molecular Biology,
Web of Science Categories: Biochemistry & Molecular Biology

15. **Obradović J**, Todosijević J, Jurisic V. Diversity, frequency, and significance of the methods for detection EGFR variants in NSCLC patients.

4th ENABLE Symposium, Exploring life dynamics: in and out of equilibrium

12.05.2021-14.05.2021.ONLINE event

<https://enablenetwork.eu/>

Proceedings of national scientific conferences

Sum

5

1. Trbojević IS, Ognjanović BI, Đorđević NZ, Mladenović JM, **Milovanović JM**, Petrović ZD, Štajn AŠ, Saičić ZS. [Toksičnost paladijuma i promene oksidaciono/antioksidacionog statusa u krvi pacova. Mitohondrije i slobodni radikali, Knjiga abstrakata, 34. 21.09.2009, Beograd, Srbija]
2. **Milovanović JM**, Ognjanović BI, Trbojević IS, Đorđević NZ, Mladenović JM, Glišić RM, Štajn AŠ, Saičić ZS. [Zaštitna uloga selena u hepatotoksičnosti i lipidnoj peroksidaciji indukovanih cisplatinom kod pacova. Mitohondrije i slobodni radikali, Knjiga abstrakata, 70. 21. septembar 2009, Beograd, Srbija]
3. Mladenović JM, Ognjanović BI, Trbojević IS, Đorđević NZ, **Milovanović JM**, Štajn AŠ, Saičić ZS. [Efekti vitamina C na antioksidacioni zaštitni sistem u bubregu pacova akutno izloženih dejstvu cisplatina. Mitohondrije i slobodni radikali Knjiga abstrakata, 74. 21. septembar 2009, Beograd, Srbija]
4. Glišić R, Koko V, Cvijić G, Čakić-Milošević M, **Obradović J**. CCK-producing (I) cells of intestinal mucosa in dexamethasone-treated rats. [Četvrti srpski kongres za mikroskopiju 4SCM-2010, P115-116. 11.10.2010-12.10.2010, Beograd, Srbija]
5. **Obradović J**, Đorđević N, Tošić N, Pavlović S, Mrđanović J, Mladenović J, Jurišić V. [Odabir aditiva za optimizaciju PCR-a radi otkrivanja SNP-ova u promotornom regionu EGFR gena kod NSCLC pacijenata. Drugi kongres biologa Srbije, osnovna i primenjena istraživanja, metodika nastave, 271. 25.09.2018–30.09.2018. Kladovo, Srbija] www.serbiosoc.org.rs

Monographs of national importance

Sum

1

1. Radmila Glišić, **Jasmina Obradović**, Cell Biology Practice with Workbook / Faculty of Science, 2011. 117 pages: illus.; Circulation 100. - Bibliography: p. 117.

ISBN 978-86-6009-013-5; Cytology - Exercises; COBISS.SR-ID 186497036; CIP - Cataloging in publication of the National Library of Serbia, Belgrade, 576.3(075.8) (076).

Scientific papers in national journals	Sum 1
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| 1. Ognjanović BI, <u>Milovanović JM</u> , Dorđević NZ, Marković SD, Žikić RV, Štajn AŠ, Saičić ZS. Parameters of oxidative stress in liver and white muscle of hake (<i>Merluccius merluccius</i> L.) from the Adriatic sea. Kragujevac J Sci, 2008, 30, 137-144. |
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CITATION OF SCIENTIFIC PAPERS

The number of citations, without self-citations is 38 in 2022 (Scopus). The total number of citations without self-citations is 187 (Scopus). The total number of citations is 202 (Scopus) (as of 25.11.2022).

BRIEF DESCRIPTION OF RESEARCH IN THE PREVIOUS PERIOD

Variants of the epidermal growth factor receptor (EGFR) gene in patients with non-small cell lung cancer (NSCLC) and single nucleotide polymorphisms (SNPs) were examined: -216G>T (rs712829) and -191C>A (rs712830) and 181946C>T (D994D) (rs2293347). Two meta analyzes related to this topic were conducted and completed.

BRIEF DESCRIPTION OF PLANNED RESEARCH IN THE NEXT PERIOD

In the coming period, it is planned to continue the research of *EGFR* target polymorphisms on a larger number of samples, as well as the examination of epigenetic mechanisms of carcinogenesis, not only on patients suffering from non-small cell lung tumor but also on patients suffering from other types of cancer.