

Personal data:

Name: **Biljana Božić Nedeljković (born Božić)**
Born: Belgrade, Serbia, 1st April 1975
Affiliation: University of Belgrade, Faculty of Biology
Position: Full professor of Immunology
Head of Immunology group
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Education Background

- B. Sc: 1999, University of Belgrade, Faculty of Biology
- M. Sc: 2001, University of Belgrade, Faculty of Biology
Scientific field of thesis: Immunology. Title: *Functional aspects of macrophages in the wound healing process in rat skin*
- PhD: 2006, University of Belgrade, Faculty of Biology
Scientific field of thesis: Immunology. Title: *The significance of systematic and biohumoral parameters in the prognosis and diagnosis of arthritis of different etiologies*
- Postdoc: 2012-2013, Slovenia, University of Ljubljana, Faculty of Pharmacy. Supervisor: prof. dr Janko Kos
- Postgraduate training:
1. *Summer School of International Brain Research Organization "IBRO"*. Organization: Czech Academy of Sciences. Prague, Czech Republic, August 2002.
 2. European Summer School "*Advanced Immunological Techniques*", University of Debrecen, Hungary. Organization: Heart Center Leipzig, Leipzig; Department of Biophysics and Cell biology, Debrecen; IZKF Leipzig; Leipzig. Debrecen, Hungary, September 2003.
 3. EFIS Symposium and Postgraduate Course "*Molecular and cellular interactions in chronic inflammatory autoimmune diseases*". Organization: School of Medicine, University of Belgrade; Immunological Society of SCG and Serbian Academy of Sciences and Arts. Beograd, SCG, September 2004.
 4. "*Osteoporosis Diagnosis Courses, with Densitometry Certification*". Organization: International Osteoporosis Foundation (IOF), Niška Banja, Serbia; May 2007.
 5. EFIS Symposium and Postgraduate Course "*Inflammation at the Interface of Innate and Acquired Immunity*". Organization: Faculty of Medicine, University of Kragujevac; September 2008.
 6. Training "*Presenting Medical Data at Scientific Meetings & Medical Writing*". Organization: School of Medicine, University of Belgrade; April 2010.

7. Training “*TRAIN (Training and Research for Academic Newcomers)*”. Organization: University of Belgrade; 2015/16.

Awards: 1. The best Teaching Assistant at the University of Belgrade, awarded by the Foundation “*Đoka Vlaković*” of the University of Belgrade, for the school year 2003/2004.

Research interests

Inflammation, Inflammatory cells, Immunomodulation by Natural products and Synthetic compounds, Peripheral Nerve Injury, Neuroimmunology, Cardioimmunology, Autoimmunity.

Academic Employment

Duration	Position
November 1999 - March 2000	<i>Teaching fellow in the practical part of immunology course</i> , Institute of Physiology and Biochemistry, Faculty of Biology, University of Belgrade
March 2000 - May 2002	<i>Teaching assistant of immunology</i> , Institute of Physiology and Biochemistry, Faculty of Biology, University of Belgrade
May 2002 - May 2006	<i>Assistant of immunology</i> , Institute of Physiology and Biochemistry, Faculty of Biology, University of Belgrade
May 2006 - April 2011	<i>Assistant professor of immunology</i> , Institute of Physiology and Biochemistry, Faculty of Biology, University of Belgrade
April 2011 - February 2017	<i>Associate professor of immunology</i> , Institute of Physiology and Biochemistry, Faculty of Biology, University of Belgrade
February 2017 - present	<i>Full professor of immunology</i> , Institute of Physiology and Biochemistry, Faculty of Biology, University of Belgrade

International scientific projects

From	To	Title of program
2006	2007	Physiological Society “ <i>Centers of Excellence</i> ” grant; University of Belgrade, Faculty of Biology.
2006	2008	Sixth Framework Programme – Specific Support Actions “ <i>Reinforcing a center for laser microscopy and cell profiling for regional networking – Neuroimage</i> ”.
2008	2008	Tempus JEP Curriculum Development Project “ <i>Higher Education Reform of Biological Sciences – HERBS</i> ” – study stay at University of Nice Sophia Antipolis for immunological courses (<i>supervisor prof. dr Evelyne Mougneau and prof. dr Nicolas Glaichenhaus</i>)
2010	2011	Bilateral project between the Ministry for Education and Science of The Republic of Serbia and German office for academic exchange “ <i>The role of endonucleases in the hormone induced neuroprotection in the experimental model of multiple sclerosis</i> ”
2016	2017	Bilateral project between the Ministry for Education and Science of The Republic of Serbia and Slovenian Ministry for Science “ <i>The role</i>

		<i>of cathepsins X and S and their endogenous inhibitor cystatin C in patients with chronic heart failure</i> ” (principal investigator of the Serbian team)
2016	2019	COST action BM1406 “ <i>Ion Channels and Immune Response toward a global understanding of immune cell physiology and for new therapeutic approaches</i> “ (IONCHAN-IMMUNRESPON) (principal investigator of the Serbian team)
2018	2019	Bilateral project between the Ministry for Education and Science of The Republic of Serbia and Slovenian Ministry for Science “ <i>The role of endonucleases in the hormone induced neuroprotection in the experimental model of multiple sclerosis</i> ”
2022	2023	International project supported by the Federal Ministry of Education and Research of The Federal Republic of Germany “ <i>Rückstände aus der industriellen Teeproduktion als nachwachsende Rohstoffquelle für medizinische Wirkstoffe</i> “.

Scientific projects of the Ministry of Education and Science of the Republic of Serbia

From	To	Title of program
2003	2005	N°1647 “ <i>Neurochemical and neurophysiological repair mechanisms after injury of central nervous system</i> “
2006	2008	N°143054 “ <i>Biophysical neuro profiling in experimental models of damage and repair of central nervous system</i> “
2006	2011	N°143005 “ <i>Interaction between glial cells and neurons in repair process after injury of central nervous system</i> “
2011	2019	N°175102 “ <i>Application of functionalized carbon nanotube and gold nanotube for application of dendritic cells in tumor immunotherapy</i> “
2011	2019	N°175033 “ <i>Neuroendocrine control of growth hormone secretion in humans - new challenges. Control of energy homeostasis in humans in various pathological conditions. Correlations between clinical and pathological signs and genetic basis of pituitary tumors and neuroendocrine tumors</i> “
2020	2021	N°451-03-68/2020-14/200178 Head of Immunology group with a highly multidisciplinary approach since the members of the group are: molecular biologists, biochemists, bioinformaticians, chemical engineers.
2020	2021	Development of Higher Education Grant, “ <i>Virtual experimental immunology and immunoinformatics</i> “ (principal investigator).
2021	2022	N°451-03-9/2021-14/200178 Head of Immunology group with a highly multidisciplinary approach since the members of the group are: molecular biologists, biochemists, bioinformaticians, chemical engineers.
2022	2023	N°451-03-68/2022-14/200178 Head of Immunology group with a highly multidisciplinary approach since the members of the group are: molecular biologists, biochemists, bioinformaticians, chemical engineers.
2023	present	N°451-03-47/2023-01/200178 Head of Immunology group with a highly multidisciplinary approach since the members of the group are: molecular biologists, biochemists, bioinformaticians, chemical engineers.

Scientific projects of the Military Medical Academy and the Ministry of Defence of the Republic of Serbia

From	To	Title of program
1999	2002	“General reaction of organism to injury – immunological aspects“
2002	2006	“Different aspects of osteoporosis and bone remodeling in disease“
2006	2010	VMA/06-10/B.7 “Clinical, patophysiological and molecular aspects of injury and disease“ subproject “Immunoregulatory mechanisms in inflammation and wound healing“
2013	2015	MFVMA/10/12-14 “Functional aspects of modulation of immunogenic and tolarogenic properties of dendritic cells“
2013	2018	MFVMA/4/13-15 and MFVMA/10/16-18 “Regulatory mechanisms in inflammatory immune reactions“

Student Supervision

Over the last five years, Biljana Božić Nedeljković **mentored** 21 doctoral dissertations, and over 90 master and specialization theses and was also a **member of evaluation board** for 9 doctoral theses, 9 master, and 2 specialization theses.

<i>PhD candidate</i>	<i>Thesis title</i>	<i>Co-mentor with:</i>	<i>Defense Date</i>
Mićanović Dragica	<i>Effect of aqueous extract of aronia fruit on the immune system in murine models of infection and melanoma</i>	Tamara Saksida	24.02.2023.
Lunić Tanja	<i>Investigation of the immunomodulatory potential of moss extracts <i>Hypnum cupressiforme</i> Hedw.</i>	Bojan Božić	02.02.2023.
Blagojević Veljko	<i>Phenotypic characteristics of peritoneal macrophages of two strains of rats during the development of an inflammatory response: the importance of representatives of the intestinal microbiota</i>	Stanislava Stanojević	28.09.2022.
Lazarević Milica	<i>The influence of the hydrogen sulfide donor, morpholin-4-ium-4-methoxyphenyl (morpholino)-phosphodithionate, on the characteristics of immune cells involved in the pathogenesis of experimental autoimmune encephalomyelitis</i>	Miljana Momčilović	28.12.2021.
Kosić Milica	<i>Antitumor effect of glycolysis inhibition in combination with lysosome permeabilization and suppression of oxidative phosphorylation</i>	Ljubica Harhaji Trajković	30.09.2021.
Koprivica Ivan	<i>Effect of ethyl pyruvate administration on the development of type 1 diabetes in C57BL/6 mice</i>	Ivana Stojanović	29.12.2020.
Obradović Ana	<i>Molecular mechanisms of antitumor activity of newly synthesized 3-substituted-5-isopropyl-5-phenylhydantoin</i>		25.09.2020.
Vukojičić Aleksandra	<i>Complement and microglia as mediators of sensory-motor synapse loss during normal development and in spinal muscular atrophy</i>	George Mentis	11.09.2020.
Mihaljica Darko	<i>The potential of recombinant <i>Ixodes ricinus</i> (Linnaeus, 1758) tick salivary proteins for the detection of specific antibodies as tick bite markers</i>	Dragana Marković	27.12.2017.
Majstorović Ivana	<i>Expression and biochemical and functional characterization of the rat R-MC 17 antigen</i>	Miodrag Čolić	26.09.2017.
Marinković Emilija	<i>Immunomodulatory activity of recombinant banana lectin isoform under physiological and pathological conditions in the colon of BALB/c mice</i>	Marijana Stojanović	22.09.2017.
Đorđić Crnogorac Marija	<i>The importance of differences in the levels of melanin- and tyrosinase-specific immunoglobulins in the antitumor immunity of patients with melanoma</i>	Ivana Matić	13.02.2017.

Tišma Miletić Nevena	<i>Examination of the immunomodulatory and cytotoxic effect of the water extract of white mistletoe (<i>Viscum album L.</i>) in vitro and in patients on anthracycline chemotherapeutics</i>	Tatjana Srđić- Rajić	04.11.2016.
Cvetković Jelena	<i>Investigation of the role of ESL1 antigen components of <i>Trichinella spiralis</i> in shaping the immune response of Dark Agouti rats</i>	Alisa Gruden- Movsesijan	09.07.2015.
Tomić Sergej	<i>Biocompatibility and immunomodulatory properties of nanomaterials based on gold nanoparticles and carbon nanotubes and advanced biomaterials based on Ni-Ti and Cu-Al-Ni alloys</i>	Miodrag Čolić	06.06.2014.
Đokić Jelena	<i>Characterization and investigation of immunomodulatory properties of mesenchymal stem cells isolated from human dental tissue</i>	Miodrag Čolić	26.05.2014.
Antonić Vlado	<i>Assessment of angiogenic and anti-inflammatory effects of extracorporeal sound shock wave therapy on an animal model of ischemia of skin flaps</i>	Aleksander Stojadinović	27.09.2013.
Perišić Nanut Milica	<i>The role of ovarian hormones in the involution of the rat thymus</i>	Gordana Leposavić	28.09.2012.
Dragičević Ana	<i>Modulation of human dendritic cell function by combined administration of agonists of endosomal Toll-like receptors, dectin-1 receptors and proinflammatory cytokines</i>		22.05.2012.
Zec Manja	<i>Molecular mechanisms of anticancer activity of selenosemicarbazone complexes of zinc, nickel and cadmium</i>	Tatjana Srđić- Rajić	09.12.2011.
Petrušić Vladimir	<i>Structural and functional characteristics of natural and infection-induced human immunoglobulin M polymers</i>	Ljiljana Dimitrijević	07.03.2011.

Community service

Journal Editor

1. *Frontiers in Immunology*; “*Cancer Immunity and Immunotherapy, Lysosomal Peptidases in Tumor Immunity*“.
Editors: Milica M Perisic Nanut, Biljana Božić Nedeljković, Anahid Jewett.

Journal Referee

Reviewed manuscripts for distinguished scientific journals: *European Journal of Heart Failure, Biomaterials, Journal of Endocrinological Investigation, Molecular and Cellular Neuroscience, Frontiers in Immunology, Cells, BMC Genomics, Plos One, Journal of International Medicine, Molecules*, etc.

Reviewer for Scientific Project Proposals and Accreditation of Study Programs in Higher Education

1. Bilateral Research Projects between Serbia and Germany/France, funded by national ministries of science
2. National Research Projects funded by the Ministry of Education and Science of the Republic of Serbia
3. Programme of Accreditation of Study Programs in Higher Education – member of the National Entity for Accreditation and Quality Assurance in Higher Education

Science popularization

1. April 2021. Webinar for students “*The World week of Immunization*“, Faculty of Biology, University of Belgrade; organizer
2. April 2021. Webinar for students “*The World day of Immunology*“, Faculty of Biology, University of Belgrade; organizer

Member of the Organization Board

1. 2004. “22nd International Symposium on Biophysics” (dedicated to professor Radoslav K Andjus, 1926-2003), Kotor, Montenegro.
2. 2004. Workshop and short course: “Confocal microscopy in biomedicine“, Belgrade, Serbia.
3. 2005. IBRO School “Confocal Microscopy in Neurosciences“, Belgrade, Serbia.
4. 2006. Symposium “Treatment of Osteoporosis“, Niš, Serbia.
5. 2007. Symposium “Diagnosis and Treatment of Osteoporosis“,
6. 2017. 4th meeting of the COST action BM1406, Belgrade, Serbia.

Scientific society/board

1. 2008 – 2018. member of the Advisory Board of the Society of Immunologists of Serbia.
2. 2009 – 2015. member of the Council of the Faculty of Biology, University of Belgrade
3. 2012 – 2022. member of the Committee on Animal Research and Ethics of the Faculty of Biology, University of Belgrade
4. 2016 – 2019. member of the management board for the COST action BM1406 “Ion Channels and Immune Response toward a global understanding of immune cell physiology and for new therapeutic approaches“ (IONCHAN-IMMUNRESPON)
5. 2016 – present. member of the Board of Doctoral Studies, Faculty of Biology, University of Belgrade
6. 2020 – present. Vice President of the *Foundation “Đoka Vljaković”* of the University of Belgrade

Research output

Over 150 bibliographic units, cited 935 times in total, *h-index* – 18 and *i10-index* – 30, source: Google Scholar. <https://scholar.google.com/citations?hl=en&user=Pi2dFjYAAAAJ>