CURRICULUM VITAE

Milorad Dragić

Laboratory for Neurobiology Department for General Physology and Biophysics Institute of Physiology and Biochemistry ``Ivan Djaja`` Faculty of Biology, University of Belgrade Studentski trg 16 11 000 Belgrade, Serbia Telephone: +381 65 561 91 18 E-mail: milorad.dragic@bio.bg.ac.rs Date of birth: 27 May 1993

Place of birth: 27 May 1993
Place of birth: Belgrade
Citizenship: Serbian

Scientia incipit curiositati

EDUCATION

2017 – in progress	PhD student (Experimental Neurobiology program), Faculty of Biology, University of Belgrade, Belgrade, Serbia
2016 – 2017	 Master of Science (Neurobiology program), Faculty of Biology, Universtiy of Belgrade, Belgrade, Serbia Master's thesis: ``17β-estradiol modulates expression of ectonucleotidases in hippocampal astrocytes of ovariectomized female rats`` - Supervisors: dr Ivana Grković and prof. dr Nadežda Nedeljković (grade 10.00/10.00)
2012 – 2017	Bachelor degree (Molecular biology and physiology program), Faculty of Biology, University of Belgrade, Belgrade, Serbia (grade 9.77/10.00)
2008 – 2012	High School, XIII Beogradska gimazija, Belgrade, Serbia

WORK EXPERIENCE

2021 – in progress	Teaching assistant at Faculty of Biology, University of Belgrade, Serbia Courses: General physiology, Neurobiology, Quantitative methods in neuroscience
2018–2021	Research assistant at Laboratory for Neurobiology, Faculty of Biology, University of Belgrade, Belgrade, Serbia
2013 - 2016	Undergraduate Research Trainee at Laboratory for Molecular Biology and Endocrinology, Institute for Nuclear Sciences "Vinča, University of Belgrade, Belgrade Serbia

AWARDS AND GRANTS

Science promotion grant for science promotion through workshop `Laboratory for neurophysiology – listen to your neurons` for high school students (grant amount 1200 EUR) funded by Center for Science Promotion

2021	IBRO-PERC conference, meeting and symposia grant for organization of student's workshop – <i>Application of immunochemistry in neuroscience research</i> (grant amount 5500 EUR) funded by International Brain Research Organization
2021	FENS-DANA Foundation Brain Awareness Week grant for organization of Brain Awareness Week event in 2021 (grant amount 950 EUR)
2020	IBRO-PERC conference, meeting and symposia grant for organization of student's workshop – <i>Enzymes of brain</i> – <i>Patho(physio)logical aspects</i> (grant amount 4000 EUR) funded by International Brain Research Organization
2020	Science promotion grant for science promotion through workshop `Brain in colors` for high school students (grant amount 1600 EUR) funded by Center for Science Promotion
2019	Global Engagement Seed grant for science promotion through action ``Brain on Wheels`` for high school students (grant amount 4500 EUR) funded by International Brain Research Organization
2018	IBRO-PERC conference, meeting and symposia grant for organization of student's workshop – <i>Stain the Brain</i> (grant amount 4000 EUR) funded by International Brain Research Organization
2018	Award ``Goran Ljubijankić``for best master thesis in the field of Molecular biology awarded annually by Foundation ``Goran Ljubijankić``
2015 – 2016	Fellowship for the best Master students in the final year, Fund for young talents "Dositeja", Ministry of Youth and Sports of Serbia

PUBLICATIONS

2021

Dragić M, Mitrović N, Adžić M, Nedeljković N, Grković I. Microglial- and Astrocyte-Specific Expression of Purinergic Signaling Components and Inflammatory Mediators in the Rat Hippocampus During Trimethyltin-Induced Neurodegeneration. ASN Neuro (2021) doi.org/10.1177/17590914211044882

Dragić M, Zeljković M, Stevanović I, Adžić M, Stekić A, Mihajlović K, Grković I, Ilić T, Nedeljković N, Ninković M. Downregulation of CD73/A_{2A}R-Mediated Adenosine Signaling as a Potential Mechanism of Neuroprotective Effects of Theta-Burst Transcranial Magnetic Stimulation in Acute Experimental Autoimmune Encephalomyelitis. Brain Sci (2021) doi.org/10.3390/brainsci11060736

Dragić M, Milićević K, Adžić M, Stevanović I, Ninković M, Grković I, Andjus P, Nedeljković N. Trimethyltin increase intracellular Ca²⁺ via L-type voltage-gated calcium channels and promotes inflammatory phenotype in rat astrocytes *in vitro*. Mol Neurobiol. (2021) doi.org/10.1007/s12035-020-02273-x

Dragic M, Zeljkovic M, Stevanovic I, Ilic T, Ilic N, Nedeljkovic N, Ninkovic M. Theta burst stimulation ameliorates symptoms of experimental autoimmune encephalomyelitis and attenuates reactive gliosis. Brain Res Bull. (2020) doi.org/10.1016/j.brainresbull.2020.06.013.

Dragić M, Zarić M, Mitrović N, Nedeljković N, Grković I. Two Distinct Hippocampal Astrocyte Morphotypes Reveal Subfield-Different Fate during Neurodegeneration Induced by Trimethyltin Intoxication. Neuroscience. (2019) doi.org/10.1016/j.neuroscience.2019.10.022.

Mitrović N, **Dragić M**, Zarić M, Drakulić D, Nedeljković N, Grković I. Estrogen receptors modulate ectonucleotidases activity in hippocampal synaptosomes of male rats. Neurosci Lett. (2019) doi.org/10.1016/j.neulet.2019.134474.

Zaric M, Drakulic D, **Dragic M**, Gusevac Stojanovic I, Mitrovic N, Grkovic I, Martinovic J. Molecular Alterations and Effects of Acute Dehydroepiandrosterone Treatment Following Brief Bilateral Common Carotid Artery Occlusion: Relevance to Transient Ischemic Attack. Neuroscience. (2019) doi.org/10.1016/j.neuroscience.2019.05.006.

Dragić M, Zarić M, Mitrović N, Nedeljković N, Grković I. Application of Gray Level Co-Occurrence Matrix Analysis as a New Method for Enzyme Histochemistry Quantification. Microsc Microanal. (2019) doi.org/10.1017/S1431927618016306.

Grković I, Mitrović N, **Dragić M**, Adžić M, Drakulić D, Nedeljković N. Spatial Distribution and Expression of Ectonucleotidases in Rat Hippocampus After Removal of Ovaries and Estradiol Replacement. Mol Neurobiol. (2019) doi.org/10.1007/s12035-018-1217-3.

POSTERS

M. Zarić, D. Drakulić, **M. Dragić**, I. Guševac Stojanović, N. Mitrović, I. Grković, J. Martinović (2018) Lack of dehydroepiandrosterone treatment efficiency in rat model of transient ischemic attack? 14th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, September 24-28, Abstract book, F-25-P;

N. Mitrović, **M. Dragić**, M. Zarić, D. Drakulić, I. Guševac Stojanović, J. Martinović, I. Grković (2018) Estrogen receptors modulate ectonucleotidases activity in hippocampal synapses of male rats. 14th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, September 24-28, Abstract book, F-26-P;

Ivana Grković, **Milorad Dragić**, Nataša Mitrović, Marina Zarić, Marija Adžić, Nadežda Nedeljković (2019). Expression of ecto-5' nucleotidase on amoeboid microglia during neurodgeneration induced by trimethyltin indicates its role in phagocytosis. Immunology at the confluence of multidisciplinary approaches, Belgrade, Serbia, December 6-8, Book of Abstracts, Session 7;

Milorad Dragić, Nataša Mitrović, Nadežda Nedeljković, Ivana Grković (2019) Concomitatnt upregulation of ecto-5' nucleotidase (CD73) and pro-inflammatorz cytokines in neuroinflammatory model of hippocampal injury induced by trimethyltin. Immunology at the confluence of multidisciplinary approaches, Belgrade, Serbia, December 6-8, Book of Abstracts, Session 7;

Nataša Mitrović, **Milorad Dragić**, Marina Zarić, Nadežda Nedeljković, Ivana Grković (2019) Flaxseed oil modulates microglia activation in the hippocampus of ovariectomized rats following trimethyltin intoxication. Immunology at the confluence of multidisciplinary approaches, Belgrade, Serbia, December 6-8, Book of Abstracts, Session 7;

Milorad Dragić, Ivana Grković, Marija Adžić, Nataša Mitrović, Nadežda Nedeljković (2019). Anatomical and cellular distribution of ecto-nucleoside triphosphate diphosphohydrolase 2 in rat brain. FENS Regional Meeting 2019, Belgrade, Serbia, July 10-13, Book of Abstracts, P264;

Ivana Grković, **Milorad Dragić**, Nataša Mitrović, Marina Zarić, Dunja Drakulić, Nadežda Nedeljković (2019). Up-regulation of ecto-5' nucleotidase on activated microglial cells following trimethyltin-induced neurotoxicity of female rats. FENS Regional Meeting 2019, Belgrade, Serbia, July 10-13, Book of Abstracts, P266.

Marina Zaric, Dunja Drakulic, **Milorad Dragic**, Ivana Gusevac Stojanovic, Natasa Mitrovic, Ivana Grkovic, Jelena Martinovic (2019). Brief cerebral ischemia/reperfusion injury in male Wistar rats as a model relevant to transient ischemic attack- effects of acute dehydroepiandrosterone treatment. FENS Regional Meeting 2019, Belgrade, Serbia, July 10-13, Book of Abstracts, P280.

Dragić Milorad, Mitrović Nataša, Nadežda Nedeljković, Ivana Grković (2019). Trimethyltin-induced neurodegeneration is associated with gradual up-regulation of ecto-5' nucleotidase on activated microglia. 13th Gottingen Meeting of the German Neuroscience Society, Gottingen, Germany, March 20-23, Book of Abstracts, T11-2B;

Drakulić Dunja, Veljković Filip, Pejić Snežana, Todorović Ana, Zarić Marina, Mitrović Nataša, Grković Ivana, Guševac Stojanović Ivana, **Dragić Milorad**, Martinović Jelena (2019). Ishemia/Reperfusion brain injury and dehydroepiandrosterone modulate oxidative stress and inflammatory response indicators in prefrontal cortex. FENS Regional Meeting 2019, Belgrade, Serbia, July 10-13, Nano Symposium II;

Dragić M, Mitrović N, Drakulić D, Zarić M, Gusevac Stojanović I, Martinović J, Grković I (2018). Histochemical charachterization of trimethyltin-induced neurodegenration in CA1 hippocampal region of ovariectomized female rat. 11th FENS forum of Neuroscience, Berlin, Germany, July 7-11, Abstract book, C130;

Mitrovic N, **Dragić M,** Drakulić D, Zarić M, Gusevac Stojanović I, Martinović J, Grković I (2018) Regional-specific fluctuations of ectonucleotidases activity across estrous cycle of female rats. 11th FENS forum of Neuroscience, Berlin, Germany, July 7-11, Abstract book, B050;

Dragić M, Mitrović N, Drakulić D, Zarić M, Gusevac Stojanović I, Martinović J, Nedeljković N, Grković I (2017). 17β-Estradiol upregluates ecto-nucleotidase triphosphate diphoshohydrolase 2 (NTPDase-2) in hippocampal astrocztes of female rats – Histochemical and molecular analysis. VII Neuroscience Society Congress, Belgrade, Serbia, October 25-27, Abstract book, A3;

Milorad Dragić, Marija Adžić, Nataša Mitrović, Ivana Grković, Nadežda Nedeljković (2019). Anatomical and cellular distribution of ecto-nucleoside triphosphate diphosphohydrolase 2 in rat brain. 2nd Symposium in Biomedicine: Basic and Clinical Neuroscience, Belgrade, Serbia, May 9. Abstract Book, P06;

Ivana Grković, Nataša Mitrović, **Milorad Dragić**, Marija Adžić, Nadežda Nedeljković (2019). Expression of ectonucleotidases in rat hippocampus after ovarian hormones deprivation and estradiol replacement. 2nd Symposium in Biomedicine: Basic and Clinical Neuroscience, Belgrade, Serbia, May 9. Abstract Book, P04;

Milorad Dragić, Marina Zarić, Nataša Mitrović, Ivana Grković (2018) Morfološka karakterizacija hipokampalnih astrocita ovarijektomisanih ženki pacova u modelu neurodegeneracije izazvane trimetil-

kalajem. Drugi kongres biologa Srbije, Kladovo, Srbija, Septembar 25-30, Knjiga sažetaka, Usmeno izlaganje;

RESEARCH VISITS

2018

Short visit at Faculty of Medicine, University of Pecs, Pecs, Hungary for learning and implementation of cerebral microdialysis

SCIENCE SOCIETIES MEMBERSHIP

Federation of European Neuroscience Societies (FENS)

Serbian Neuroscience Society (SNS)

Serbian Biological Society (SBS)

ADDITIONAL INFORMATION

2019	Lecturer at panel discussion ``Science in Serbia like a extreme sports`` at student's conference SIMPLAST, Zlatibor, Serbia
2019	Instructor and co-organizer of Spring's school of biology ``Neuroanatomy and histochemistry of nervous tissue`` at Petnica science center, Valjevo, Serbia
2016 - 2017	Participation at X and XI Serbian Science Festival, Belgrade, Serbia
2014 - 2017	Organization and participation at Brain Awareness Week in Belgrade, Serbia funded by DANA Fondation