

Marija Medar, MSc

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Education

2014-present PhD Studies in Biology, Faculty of Sciences, University of Novi Sad, Serbia

PhD Thesis supervised by Prof. Dr. Tatjana Kostić, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad. *The main goal of my PhD thesis is to investigate how stress affect the circadian rhythm of Leydig cells endocrine function in adult rats. We want to find out the link between stress, clock genes and testosterone production, which is the main function of Leydig cells.*

2013-2014 MSc. in Biology (module – molecular biology) at the University of Novi Sad, Serbia (GPA 9.81/ max. 10.00). Master Thesis: “Activity of selected antioxidant enzymes during resting and active periods in the honey bee *Apis mellifera* L.”

2009-2013 BSc. in Biology (module – molecular biology) at the University of Novi Sad, Serbia (GPA 9.46/ max. 10.00).

Work experience

2018 - present Teaching Assistant, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Serbia.

2016 - 2018 Research Trainee, Reproductive Endocrinology and Signaling Group, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Serbia.

Current project:

- Serbian Ministry of Education, Science and Technological Development, Project – OI173057: “Molecular mechanisms and signal transduction pathways involved in regulation of steroidogenesis and adaptation of Leydig cells to disturbed homeostasis”. *Role: Co-investigator.*
- APV Province Committee for Science and Technology: “Can lifestyle cause reduction in male fertility”. *Role: Co-investigator*
- Serbian Academy of Sciences and Arts and Academy of Sciences of the Czech Republic, Project: “The CNG channels in Leydig cell - identification, characterization and functional coupling to testosterone production”. *Role: Co-investigator.*

Professional Training

December 2019 Training for teaching in English (*Certificate by University of Novi Sad*).

August 2017 Stress and Cognition training (*Certificate by Radboud University, Nijmegen, The Netherlands*).

Jun 2016 Training for Preparing and Management of project (*Certificate by University of Novi Sad*).

Jun 2016 Training for Communication and Presentation skills (*Certificate by University of Novi Sad*).

March 2016 Research training as part of the Serbian Academy of Sciences and Arts and Academy of Sciences of the Czech Republic project at Laboratory of Cellular and Molecular Neuroendocrinology, Institute of Physiology Academy of Sciences of the Czech Republic under the supervision of Hana Zemkova, PhD.

December 2015 Certificate of training on the welfare of animals used for scientific purposes (category V), organized by Ethics commission on the protection of animals used for scientific purposes, (*Certificate by University of Novi Sad*).

Honors and Awards

- 2019** Grant for International Chronobiology Summer School (*The Society for Research in Biological Rhythms*).
- 2018** Grant for 18th FEBS Young Scientists' Forum (YSF) and 43rd FEBS Congress, Prague, Czech Republic (*Federation of the European Biochemical Societies*).
- 2017** Grant for the best student presentation at International Experimental Biology and Medicine Conference, Biological Clocks: Mechanisms And Application, Rijeka, Croatia (*American Society for Experimental Biology and Medicine*).
- 2017** Erasmus+ stipendy for Radboud Summer School "Stress & Cognition: From Basic Mechanisms to Psychopathology" (*Radboud University, Nijmegen, The Netherlands*).
- 2016** Grant for 16th YSF FEBS and 41th FEBS Kusadasi, Turkey (*Federation of the European Biochemical Societies*).

Teaching Skills

2018 – present Teaching Assistant at Comparative Animal Physiology, Animal Physiology, Immunology, Cell Signaling, Endocrinology and Reproductive Physiology Courses (*GPA 9.39/ max. 10.00 from 240 students*).

Laboratory Skills

Primary cell culture preparation; Radioimmunoassay (RIA); Enzyme-linked immunosorbent assay (ELISA); RNA and protein isolation; RT-PCR; Agarose gel electrophoresis; PCR;qPCR; SDS-PAGE; Western blotting; Several spectrophotometric and fluorometric analyses; Tissue preparation for Histological analyses.

Data analysis

Microsoft Office; R studio; InkScape; Graph Pad; Adobe Illustrator; Image J; SPSS; Different type of online data bases; Genevestigator; BioVinci.

Language

English – Upper intermediate level of knowledge (C1).

Germany – Basic User (A1).

Personal Skills

- My degree course greatly enhanced my written and verbal communication skills due to many presentations, assignments, posters, essays and projects required. Team and individual worker at the same time. I have successfully undertaken various team projects within both academic and non-academic environments. I enjoy travelling, meeting new people and places.
- Critical thinking.
- Detail – oriented.
- Experience in project basic tasks.