

PhD Mirjana Djukic, Professor of toxicology



Contact

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Employment

Department of Toxicology at the University Belgrade - Faculty of Pharmacy, Serbia:

2012-present, Full professor

2007-2012, Associate professor

2002-2007, Assistant professor

1988 -2002, Assistant

Department of Toxicology at the Medical Faculty-Division: Pharmacy-University Nis, Serbia:

2018-present, Professor of toxicology

Faculty of Pharmacy-University of Tuzla, Bosnia and Herzegovina:

2007-2018, Professor of toxicology

At the Belgrade Apoteke:

1984-87

Education

At the Faculty of Pharmacy, University of Belgrade, Serbia:

2017, Spec. pharmacy - Biological drugs (Theme: *Biological drugs in therapy of metastatic melanoma*)

2001, PhD - Toxicology (Thesis: *Free radicals and antioxidant protection in the vulnerable brain structures of Wistar rats with acute poisoning with paraquat and diquat*).

1996, MSc - Toxicology (Theme: *Toxicological effects of disulfiram on the adrenergic system in alcoholics*).

1984, State exam for pharmacy license

1984, BSc - Pharmacy

Postdoctoral studies

At the Center for Free Radical and Antioxidant Health, lab of prof. Valerian E. Kagan, EOH, Graduate School of Public Health, University of Pittsburgh, USA

2002, Oct - 2003, Oct: Postdoctoral fellow

2010, Nov - 2011, Nov: Research Associate

International trainings

2008, 5th Training course on 'Concepts and Methods in Programmed Cell Death, Bern, Switzerland

2007, 4th Training course on "Concepts and Methods in Programmed Cell Death, (ECDO) Portoroz, Slovenia

2005, 1st Balkan school for HPLC-MS, Krug International Ltd., Hemtek d.o.o. and Waters Co.

2005, Promotion of the Three Rs (Reduction, Refinement, Replacement) Concept in Relation to Animal Experimentation, JRC Enlargement & Integration Workshop, Alternatives, International Workshop on Croatia, Turkey and Western Balkan Countries, Ljubljana, Slovenia

2004, Introduction to Clinical Drug Research, Vienna School of Clinical Research

Teaching activities

Graduate Program

Mandatory courses: Toxicology with analytics, Clinico-toxicological analysis

Optional courses: Free radicals and antioxidants –laboratory diagnostics (introduced and organized by myself, 2008-present), Drug abuse (introduced and organized by myself, 2008-present), Acute drug poisoning, Ecotoxicology

Postgraduate studies

Module-Toxicology

Continuing education (lecturer and organizer)

2013, Drug Abuse-Alcoholism

2005, Oxidative stress - clinical diagnostic significance,

2005, Prooxidant effects of xenobiotics and antioxidant protection

Scientific projects

Domestic

2012-present, *The molecular mechanisms and potential modulation of oxidative cell state under physiological and pathophysiological conditions* (Funded by The Institute for Medical Research, Medical Military Academy, Serbia)

2010-present, *Preventive, therapeutic and ethical approach in pre-clinical and clinical studies of genes and modulator redox cell signaling in the immune, inflammatory and proliferative response of cells* (Funded by The Ministry of Education, Science and Technological Development, Serbia)

2008-present, *Clinical, pathophysiological and molecular aspects of trauma and inflammation* (Funded by The Institute for Medical Research, Medical Military Academy, Serbia)

2008-2010, *Women's health protection* (Funded by The Ministry of Health, Serbia)

2002-2005, *Endogenous exposure parameters xenobiotics; analytics, monitoring, prophylaxis and treatment* (Funded by The Ministry of Science, Serbia)

2006-2010, *Biochemical indicators of damage and dysfunction of organs* (Funded by The Ministry of Science, Serbia)

1996-2000, Biopharmaceutical and chemical technological investigations of drugs (Funded by The Ministry of Science, Serbia)

International

National Institutes of Health Grants HL114453, U19 AIO68021, ES 020693, and ES 021068,

National Institute for Occupational Safety and Health Grant OH008282,

Human Frontier Science Program Grant HFSP-RGP0013/2014.

2010-2011, *Activation of cytochrome c into a peroxidase by esterified forms of vitamin E* (Valerian Kagan, University of Pittsburgh, USA)

2010-2011, *Structure-based virtual screening to identify activators and inhibitors of peroxidase activity of cytochrome c* (Valerian Kagan, University of Pittsburgh, USA)

2009-2011, *Novel nitroxide resuscitation strategies in experimental traumatic brain injury* (Funded by National Health Institute, USA, Co-Investigator, Valerian Kagan)

2002-2003, NIH-HD64145-01A1, *Copper/albumin redox-cycling in preeclampsia* (Funded by National Health Institute, USA)

2002-2003, NIH-HL-70755, *Pulmonary phosphatidylserine oxidation in apoptosis* (Funded by National Health Institute, USA)

Foreign working Groups

- 2017. Dec "Modulation of oxidative stress" - Prof. dr Luciano Saso, University of Sapienza, Department of Physiology and Pharmacology "Vittorio Esummer".

- 2002-Today: Center for Free Radical and antioxidant health, laboratory Prof. Valerian E Kagan, EOH, Faculty of Public Health, University of Pittsburgh, USA

Research Interests

Free radical toxicology, oxidative stress-associated poisonings/diseases and immune responses, red-ox cycling compounds, mechanisms of toxicity, drug abuse and

treatments, vitamin E analogues with antiproliferative effects, antioxidants, biological drugs, zeolite, analytical toxicology.

Academic Community Activities

2008-2011, Editor in Chief and Founder of the University of Belgrade-Faculty of Pharmacy website

2007-2010, Member of the Council of Faculty of Pharmacy, University of Belgrade

2006, Member of Editorial Board for National Encyclopedia *Big home medical guide*

2010-present, Member of the Serbian Society of Toxicology (SST)

1999-present, Member of the Association of European Toxicologists and European Societies of Toxicology (EUROTOX)

Reviewing

Since:

2014, Neurochemistry International

2013, Bosnian Journal of Basic Medical Sciences, Chemico-Biological Interactions

2008, Free Radical Research, Vojno sanitetski preglod

2007, Food and Chemical Toxicology, Basic of Clinical Pharmacology and Toxicology, Environmental Toxicology and Pharmacology

2006, Acta Chromatographica

Memberships in the bodies of the Ministries of the Republic of Serbia

January 2020 - Member of the Commission for the Control of Precursor Destruction Procedures. (the decision was published in the Official Gazette of the RS, No. 4/2020)

Bibliography

<http://www.pharmacy.bg.ac.rs/o-fakultetu/redovni-profesori/150/dr-sc-mirjana-%C4%91uki%C4%87/>