

# Curriculum Vitae

## MIRJANA DJUKIC

### Contact

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### Scientific ID



ORCID br. <http://orcid.org/0000-0003-0177-1205> ✓

SCOPUS ID: 36960096000; <https://www.scopus.com/authid/detail.uri?authorId=36960096000>

Researcher ID (Web of Science): N-2645-2016

Google scholar link: <https://scholar.google.com/citations?user=TVwptYsAAAAJ&hl=en>

### Teaching ID

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

### Employment

At the Department of Toxicology, FP-UBG, Serbia:

- 2012-present: full professor
- 2007-2012: Associate Professor
- 2002-2007: assistant professor
- 1988 -2002: assistant

Faculty of Medicine-Department of Pharmacy-Toxicology, University of Nis, Serbia:

- 2018-2020: Professor of Toxicology

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

- 2007-2018: Professor of Toxicology

In Belgrade pharmacies:

- 1984-87: internship and employment in state pharmacies Belgrade

### Education

- 2017: Specialist in Pharmacy-Biological Drugs (Special topic: Biological drugs in the treatment of metastatic melanoma) - FP-UBG
- 2001: PhD - Doctor of Pharmaceutical Sciences - Toxicology (Thesis: Free radicals and antioxidant protection in sensitive brain structures of Wistar rats acutely poisoned with paraquat and diquat) - FP-UBG
- 1996: MS - Master of Pharmaceutical Sciences-Toxicology (Thesis: Toxicological effects of disulfiram on the adrenergic system in alcoholics) - FP-UBG
- 1985: State exam for a pharmacist's license to work in a pharmacy
- 1979-84: BC - Basic studies of pharmacy - FP-UBG (average grade 8.52)

- 1975-78: X Belgrade Gymnasium "Mihajlo Pupin", Belgrade
- 1967-74: Elementary school "Dimitrije Davidović", Smederevo

## **Trainings**

### *Postdoctoral studies and research cooperation abroad*

- 2010, November-2011, November: Research associate in 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, October-2003, October: postdoctoral studies at the Center for Free Radical and Antioxidant Health, laboratory of prof. Valerian E. Kagan, EOH, Faculty of Public Health, University of Pittsburgh, USA

### *Courses abroad*

- 2008: 5<sup>th</sup> Training course on 'Concepts and Methods in Programmed Cell Death' Bern, Switzerland, September 6-9, 2008
- 2007: 4<sup>th</sup> Training course on “Concepts and Methods in Programmed Cell Death”, October 27, 2007 (ECDO) Portorož, Slovenia.
- 2005: “Promotion of the Three Rs (Reduction, Refinement, Replacement) Concept in Relation to Animal Experimentation”, JRC Enlargement & Integration Workshop, Alternatives 2005, International Workshop on Croatia, Turkey and Western Balkan Countries, Ljubljana, Slovenia
- 2005: 1<sup>st</sup> Balcan school for HPLC-MS, Krug International Ltd., Hemtek d.o.o. and Waters Co.
- 2004: “Introduction to Clinical Drug Research”, Vienna School of Clinical Research

## **Scholarships and awards**

- 1995: Prva nagrada za mlade naučnike, za najbolje prezentovan rad na međunarodnom skupu “2<sup>nd</sup> Xenobiotic Metabolism and Toxicity Workshop of Balcan Countries”, Ioannina, Greece, 22-25.10.1995.

## **Teaching work**

### *Integrated academic studies*

#### Required courses:

- Toxicology with analyst
- Clinical and toxicological analysis

#### Elective courses:

- Free radicals and antioxidants-laboratory diagnostics, (founder/responsible teacher, since 2008)
- Drug abuse (founder/responsible teacher, since 2008)
- Acute drug poisoning
- Ecotoxicology

### *Doctoral (PhD) studies*

- Module-Toxicology

### *Mentorship/Membership in the Committees for the defense of final, specialist and doctoral theses:*

- Graduation theses: Mentor for preparation and defense of diploma theses (~ 20) and member of Commissions for preparation and defense of diploma theses (~ 40)
- Specialisation studies - Pharmaceutical marketing and management: mentor for 3 specialist theses (2-2012 and 1-2010) and member of the Commission for defense of specialist theses (7)
- Mentoring for master's studies: Mentor of a defended master's thesis (2007).
- Mentoring for doctoral studies: Mentor of three defended doctoral dissertations (2011-current): one is in progress.

## **Textbooks**

### *Student textbooks*

1. Vujović M, Kostić E, Đukić M. Manual for clinical-forensic toxicological analyzes. Faculty of Medicine Nis, ISBN: 978-86-6265-083-2 (2021)
2. Mirjana Djukic, Danijela Djukic-Cosic. A handbook for addictive drugs with analytics. Faculty of Pharmacy, Belgrade. ISBN: 978-86-80263-65-6 (2009)

3. Vesna Matović, Mirjana Đukić, Biljana Antonijević, Dragana Vujanović, Zorica Plamenac. Practicum in toxicology. Publisher: Faculty of Pharmacy, Belgrade ISBN: 86-80263-37-0 (2005)
4. Vesna Matovic, Mirjana Djukic, Biljana Antonijevic. Practicum for clinical and toxicological analyzes. Faculty of Pharmacy, Belgrade ISBN: 86-80263-38-9 (2005)

#### *Monographs*

1. Oxidative stress - clinical-diagnostic significance. Publisher: PLATO: MONO & MAÑANA. Editor: Mirjana Djukić. ISBN 978-86-7804-155-6. Belgrade (2008)
2. Oxidative stress - free radicals, prooxidants and antioxidants. Publisher: PLATO: MONO & MAÑANA. Editor: Mirjana Djukić. ISBN 978-86-7804-156-3. Belgrade (2008)

#### **Continuing education**

- 2005: Oxidative stress - clinical diagnostic significance (lecturer and course organizer)  
 2005: Prooxidant effects of xenobiotics and antioxidant protection (lecturer and course organizer)

#### **Activities within the Faculty**

- 2020 – present: Head of the Center for Prevention of Addictive Behavior, FP-UBG
- 2008-2011: First editor and founder of the website of the FP-UBG
- 2007-2010: Member of the Council of the FP-UBG

#### **Activities within wider Academic Community**

##### *Membership in editorial boards and professional associations:*

- 2006: Member of the Editorial Board of the National Encyclopedia Great House Medical Guide ISBN: 86-447-489-03. Publisher: PLATO: MONO & MAÑANA, Belgrade (2006);
- 1999-present: Member of the Association of European Toxicologists and European Societies of Toxicology (EUROTOX)

##### *Reviewer of scientific articles*

- 2014: Neurochemistry International
- 2013: Chemico-Biological Interactions
- 2013: Bosnian Journal of Basic Medical Sciences
- 2008: Free Radical Research,
- 2008: Vojno sanitetski pregled
- 2007: Food and Chemical Toxicology,
- 2007: Basic of Clinical Pharmacology and Toxicology,
- 2007: Environmental Toxicology and Pharmacology
- 2006 Acta Chromatographica

##### *Reviewer of students' textbooks*

1. Aida Begić, Maida Šljivić-Husejnović, Mensura Aščerić, Sanja Brekalo-Lazarević Handbook of selected chapters of toxicology with analytics (2018, publisher: Faculty of Pharmacy, University of Tuzla, BiH. ISBN: 978-9958-894-67-1)
2. Ljiljana Paunović: Toxicological Chemistry for the 3rd and 4th Azred Medical School (2015, publisher: Institute for Textbooks, Belgrade; ISBN: 978-86-17-19066-6)

##### *Collaboration with foreign research groups/researches*

- 2017-current: Prof. dr Luciano Saso, University of Sapienza, Department of Physiology and Pharmacology "Vittorio Espamer"
- 2002-current: Prof. Valerian E Kagan Center for Free Radical and antioxidant health, EOH, Faculty of Public Health, University of Pittsburgh, USA

#### **Activities in the bodies of the Government of the Republic of Serbia**

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

#### **Scientific projects**

##### *Domestic*

1. 2012-present: Molecular mechanisms and potential modulation of oxidative cell state in physiological and pathophysiological conditions (Medical Research, Medical Military Academy, Serbia, abrv. IMI-MMA)
2. 2010-present: 41018 III: Preventive, therapeutic and ethical approach in preclinical and clinical studies of genes and signaling of redox cell modulators in the immune, inflammatory and proliferative response of cells (funded by the Ministry of Education, Science and Technological Development, Serbia, abrv.MESTD)
3. 2008-present: Clinical, pathophysiological and molecular aspects of trauma and inflammation (IMI-MMA)
4. 2008-2010: Women's Health Protection (Ministry of Health, Serbia)
5. 2002-2005: Endogenous exposure parameters of xenobiotics; analytics, monitoring, prophylaxis and treatment (MESTD)
6. 2006-2010: Biochemical indicators of organ damage and dysfunction (MESTD)
7. 1996-2000: Biopharmaceutical and chemical technological research of drugs (MESTD)

#### *International*

1. National Institutes of Health (NIH) Grants: HL114453, U19 AIO68021, ES 020693, and ES 021068,
2. National Institute for Occupational Safety and Health (NIOSH) Grant: OH008282,
3. Human Frontier Science Program (HFSP) Grant: HFSP-RGP0013/2014.
4. 2010-2011: *Activation of cytochrome c into a peroxidase by esterified forms of vitamin E* (Valerian Kagan, University of Pittsburgh, USA)
5. 2010-2011: *Structure-based virtual screening to identify activators and inhibitors of peroxidase activity of cytochrome c* (Valerian Kagan, University of Pittsburgh, USA)
6. 2009-2011: *Novel nitroxide resuscitation strategies in experimental traumatic brain injury* (NIH, Co-Investigator, Valerian Kagan)
7. 2002-2003: NIH-HD64145-01A1, *Copper/albumin redox-cucling in preeclampsia* (NIH)
8. 2002-2003: NIH-HL-70755, *Pulmonary phosphatidylserine oxidation in apoptosis* (NIH)

#### **Bibliography report**

(Updated: 09 December 2021): Scopus: h-index 12; citation rate: 511; scientific articles: 54; Google Scholar: h-index 17 (2016: 13); citation rate: 846 (since 2016: 500).

241 publications of which 64 scientific original articles and 146 conference papers are categorised (M-categories with scores) according the Ministry of Education, Science and Technological Development of Republic Serbia (MESTD): Thematic collection of leading national importance (M41)-2; Chapter in the monograph of national importance M42 (M45)-2; Chapter in the monograph of international importance M12 (M14)-1; Top international journal among the top 30% on the JCR list, according to IF2 (M21, scoring: 8)-11; Prominent international journal among the top 30-60% on the JCR list, according to IF2 (M22, scoring: 5)-3; International journal not among the top 60% on the JCR list, according to IF2 (M23, scoring: 3)-33; Scientific Criticism and Controversy in a Prominent International Journal (M25, scoring: 1.5)-1; Article in a leading journal of national importance (M51, scoring: 2)-4; Article in a journal of national importance (M52, scoring: 1.5)-11; Scientific national article (M53, scoring: 1)-1; Lectures by invitation-12; Lecture by invitation at the international - in its entirety (M31, scoring: 3)-4; Invited lecture at an international conference - abstract (M32, scoring: 1.5)-8; Press release from the international conference - in its entirety (M33, scoring: 1)-16; Abstract of the international conference (M34, scoring: 0.5)-120; Abstract from the national conference (M64, scoring: 0.2)-10; Master's thesis defended (M72, scoring: 3)-1; Defended doctoral thesis (M71, scoring: 6)-1.

#### **Publications (top 10):**

1. Kanjevac, Tatjana, Ervin Taso, Vladimir Stefanovic, Aleksandra Petkovic-Curcin, Gordana Supic, Dejan Markovic, Mirjana Djukic, Danilo Vojvodic, Anton Sculean, and Mia Rakic. "Estimating the effects of dental caries and its restorative treatment on periodontal inflammatory and oxidative status: A short controlled longitudinal study." *Frontiers in Immunology*. 2021; 3587. (M21; IF 7.624)
2. Stevanovic, Ivana, Milica Ninkovic, Bojana Mancic, Marija Milivojevic, Ivana Stojanovic, Tihomir Ilic, Maja Vujovic, and Mirjana Djukic. "Compensatory Neuroprotective Response of Thioredoxin Reductase against Oxidative-Nitrosative

- Stress Induced by Experimental Autoimmune Encephalomyelitis in Rats: Modulation by Theta Burst Stimulation. *Molecules*. 2020; 25 (17): 3922. (M22; IF: 4,412)
3. Taso, Ervin, Vladimir Stefanovic, Ivana Stevanovic, Danilo Vojvodic, Aleksandra Petkovic-Curcin, Kosovka Obradovic-Djuricic, Aleksa Markovic, Mirjana Djukic, and Dragana Vujanovic. "Influence of dental restorations on oxidative stress in gingival crevicular fluid." *Oxidative medicine and cellular longevity*. 2018. (M21; IF 4.44)
  4. Djukic, Mirjana, Mara Fesatidou, Iakovos Xenikakis, Athina Geronikaki, Violina T. Angelova, Vladimir Savic, Marta Pasic et al. "In vitro antioxidant activity of thiazolidinone derivatives of 1, 3-thiazole and 1, 3, 4-thiadiazole." *Chemico-biological interactions*. 2018; 286: 119-131. (M21; IF 4.593)
  5. Djuric A, Begic A, Gobeljic B, Pantelic A, Zebic G, Stevanovic I, Djurdjevic D, Ninkovic M, Prokic V, Stanojevic I, Vojvodic D, Djukic M. "Subacute alcohol and/or disulfiram intake affects bioelements and redox status in rat testes." *Food and Chemical Toxicology*. 2017; 105: 44-51. (M21; IF 3.778)
  6. Begic A, Djuric A, Ninkovic M, Stevanovic I, Djurdjevic D, Pavlovic M, Jelic K, Pantelic A, Zebic G, --Dejanovic B, Stanojevic I, Vojvodic D, Milosavljevic P, Djukic M, Luciano S. Disulfiram moderately restores impaired hepatic redox status of rats subchronically exposed to cadmium. *Journal of enzyme inhibition and medicinal chemistry*. 2017; 32 (1): 478-89. (M21; IF 4.293)
  7. Angelova, V. T., Valcheva, V., Vassilev, N. G., Buyukliev, R., Momekov, G., Dimitrov, I., Saso L., Djukic M., Shivachev, B. Antimycobacterial activity of novel hydrazide-hydrazone derivatives with 2H-chromene and coumarin scaffold. *Bioorganic & medicinal chemistry letters*. 2017; 27 (2): 223-227. (M22; IF: 2.930)
  8. Ana Djuric, Aida Begic, Borko Gobeljic, Milica Ninkovic, Ivan Stanojevic, Danilo Vojvodic, Ana Pantelic, Goran Zebic, Vera Prokic, Bratislav Dejanovic, Ivana Stojanovic, Marina Pavlica, Dusan Djukic, Luciano Saso, Dragan Djurdjevic, Milos Pavlovic, Aleksandra Topic, Dragana Vujanovic, Ivana Stevanovic, Mirjana Djukic. Oxidative stress, bioelements and androgen status in testes of rats subacutely exposed to cadmium. *Food and Chemical Toxicology* 2015; 86: 25–33. (M21; IF 3.584)
  9. Stanojevic I, Miller K, Kandolf-Sekulovic L, Mijuskovic Z, Zolotarevski L, Jovic M, Gacevic M, Djukic M, Arsenijevic N, Vojvodic D. A subpopulation that may correspond to granulocytic myeloid-derived suppressor cells reflects the clinical stage and progression of cutaneous melanoma. *International immunology*. 2015; 28 (2): 87-97. (M22; IF 3.748)
  10. Naveena Yanamala, Alexander A Kapralov, Mirjana Djukic, Jim Peterson, Gaowei Mao, Judith Klein-Seetharaman, Detcho A Stoyanovsky, Jan Stursa, Jiri Neuzil, Valerian E Kagan. Structural re-arrangement and peroxidase activation of cytochrome c by anionic analogues of vitamin E: tocopherol-succinate and tocopherol-phosphate. *J. Biol. Chem*. 2014; 289 (47): 32488-98. (M21; IF 4.573)