

ALEKSANDRA TOPIC

Employment Information:

- Professor, since 2010.
- Associate Professor, 2005.-2010.
- Assistant Professor, 1999.-2005.
- Assistant, 1992.-1999.
- Teaching assistant, 1986.-1992.
- Unique employment between Faculty of Pharmacy, and Central Laboratory, Clinical Center of Serbia, 1986.-1994.

Education:

- PhD studies in Medical biochemistry, "The Distribution of Pi Phenotypes, Concentration and Functional Activity of alpha-1-antitrypsin in Health and Disease", Faculty of Pharmacy-University of Belgrade, 1999.
- MSc in Medical biochemistry, "Alpha-1-antitrypsin polymorphism in Serbia", Faculty of Pharmacy-University of Belgrade, 1992.
- Subspecialization in Clinical Immunochemistry, Faculty of Pharmacy-University of Belgrade, 2003.
- Specialization in Medical Biochemistry, Faculty of Pharmacy-University of Belgrade, 1994.
- BSc in Pharmacy - medical biochemistry, Faculty of Pharmacy-University of Belgrade, 1986.

Training:

- Course: "Postgraduate Qualification in Pharmacy: The Way Forward" , University of Greenwich, UK, 2011.
- Course: "Postgraduate Certificate Higher Education Learning and Teaching", Robert Gordon University, Aberdeen, Scotland, UK, 2005.

Teaching activities:

- Integrated Academic Studies: Medical Biochemistry (Pharmacy), Introduction to Medical Biochemistry (Pharmacy-Medical Biochemistry), Clinical chemistry with molecular diagnostics (Pharmacy-Medical Biochemistry)
- Doctoral studies: Medical Biochemistry
- Specialization in Biochemical Diagnostics: Medical Biochemistry
- Mentor and member of the committee for undergraduate theses and specialization in Medical Biochemistry
- Mentor for doctoral studies: Module Medical Biochemistry
- Mentor for health specialization-Medical Biochemistry: Medical Biochemistry

Textbooks:

- Book chapter in: Spasic S. Jelic Ivanovic Z, Spasojevic Kalimanovska V. Medical Biochemistry.
- Topic A, Bogavac Stanojevic N, Kotur Stevuljević J. Practicum in exercise of General Biochemistry.

Activities within the Faculty:

- Chairman of the Commission for organizing and conducting the students' evaluations of teaching at the Faculty of Pharmacy, since 2013.
- Member of the Program Council of the Centre for Continuing Education Faculty of Pharmacy, since 2013.
- Member of the Commission for improving the quality of teaching at the Faculty of Pharmacy, 2006-2013.
- Member of the Accreditation Committee of the Faculty of Pharmacy, 2007-2008.
- Commission for the scheduling of classes in the Faculty of Pharmacy, 2009-2011.
- Mentor a student scientific research, 2008.
- Chairman of the Commission for the admission to first year studies at the Faculty of Pharmacy, school year 2001/2002 and 2004/2005 and several times a member of the same Commission.
- Lecturer at the two courses of continuing education, which were held at the Faculty of Pharmacy (1998., 2003.).
- Reviewer of the book: Kuntic V. Instrumental methods. 2008.
- Reviewer of 20 international SCI journals.

Activities within wider Academic Community:

- Member of the Board of Statutory Issues, University of Belgrade, 2010.
- Member of the Serbian society for Cancer Researcher, the European Association for Cancer Research (EACR).
- Lecturer at the IX Symposium Pharmacists and Biochemists of Republika Srpska, 2007.
- Lecture for teachers and teaching assistants, Faculty of Pharmacy, "Systematic approach to curriculum design" in 2005.

Projects:

- Complex diseases as a model system for phenotype modulation- structural and functional analysis of molecular biomarkers (No. 173008), funded by Ministry of Education, Science and Technological Development of Republic of Serbia, 2011-2014.

- Investigation of biochemical and genetic risk factors as markers of atherosclerosis and other diseases: clinical and analytical aspects (No. 145036B), funded by Ministry of Science and Environmental Protection of Republic of Serbia, 2006.
- Investigation of genetically polymorphic proteins and other biomolecules as risk factors for development of atherosclerosis and other diseases (No. 1223), funded by Ministry of Science and Environmental Protection of Republic of Serbia, 2002-2005.
- Investigation of clinically significant polymorphism of proteins and enzymes, funded by Ministry of Science and Environmental Protection of Republic of Serbia, 1996-2000.
- Investigation of bioactive proteins and enzymes, funded by Ministry of Science and Environmental Protection of Republic of Serbia, 1991-1995.

Publications:

- Petrovic-Stanojevic N, **Topic A**, Nikolic A, Stankovic M, Dopudja-Pantic V, Milenkovic B, Radojkovic D. Polymorphisms of Beta2-Adrenergic Receptor Gene in Serbian Asthmatic Adults: Effects on Response to Beta-Agonists. *Molecular Diagnosis and Therapy* 2014 Jul 30. [article in press]
- **Topic A**, Francuski Dj, Markovic B, Stankovic M, Dobrivojevic S, Drca S, Radojkovic D. Gender-related reference intervals of urinary 8-oxo-7,8-dihydro-2'-deoxyguanosine determined by liquid chromatography-tandem mass spectrometry in Serbian population. *Clinical Biochemistry* 2013;46:321–326.
- **Topic A**, Djukic M. Diagnostic characteristics and application of alcohol biomarkers. *Clinical Laboratory* 2013;59:233-245.
- **Topic A**, Ljubic M, Radojkovic D. Alpha-1-antitrypsin in pathogenesis of hepatocellular carcinoma. *Hepatitis Monthly* 2012;12(10 HCC): e7042.
- **Topic A**, Radojkovic D (2012). Polymerization and Oxidation of Alpha-1-Antitrypsin in Pathogenesis of Emphysema. In: *Lung Diseases - Selected State of the Art Reviews*, Elvis Malcolm Irusen (Ed.), pages 55-82. ISBN: 978-953-51-0180-2, InTech.
- **Topic A**, Radojkovic D (2012). Accepted and potential genetic factors involved in the etiology and pathogenesis of emphysema. In: *Advances in Medicine and Biology*, vol. 40. Ed. Leon V. Berhardt. NovaScience Publishers. Inc. New York, Pages 91-120. (ISBN: 978-1-62100-421-9).
- **Topic A**, Ljubic M, Nikolic A, Petrovic Stanojevic N, Dopudja Pantic V, Mitic Milikic M, Radojkovic D. Alpha-1-antitrypsin phenotypes and neutrophil elastase gene promoter polymorphism in lung cancer. *Pathology and Oncology Research* 2011;17:75-80.
- **Topic A**. (2010) Serpin-Related Diseases. In: *Serpins and Protein Kinase Inhibitors: Novel Functions, Structural Features and Molecular Mechanisms*.

Bojidor Georgiev and Sava Markovski (ed.). NovaScience Publisher, Inc. New York: pages:1-36. (ISBN: 978-1-60741-187-1).

- **Topic A.** (2009) Alpha-1 Antitrypsin and Neutrophil Elastase in Lung Cancer Development. In: Smoking and Lung Cancer. Evelyn N Powers and Jasmina B. Cabbot (ed.). NovaScience Publisher, Inc. New York: 47-72, (ISBN: 978-1-60692-367-2).
- **Topic A,** Spasojevic-Kalimanovska V, Zeljkovic A, Vekic J, Jelic-Ivanovic Z. Gender-related effect of Apo E polymorphism on lipoprotein particle sizes in the middle-aged subjects. *Clinical Biochemistry* 2008;41:361-367.
- **Topic A,** Jelic Ivanovic Z, Spasojevic Kalimanovska V, Spasic S. Association of Moderate Alpha-1-antitrypsin deficiency with Lung Cancer in the Serbian population, *Archives of Medical Research* 2006;37:866-870.