

# Aleksandra Pavićević

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## Education

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|---|-------|
| • Faculty of Physical Chemistry, PhD studies  | 2011- |
| • Faculty of Physical Chemistry, MSc in Physical Chemistry (Field: Biophysical Chemistry) | 2011  |
| • Faculty of Physical Chemistry, BSc in Physical Chemistry                                | 2010  |
| • Fourth Belgrade Gymnasium   | 2006  |

## Work Experience

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|---|------|
| • Faculty of Physical Chemistry, Teaching Assistant<br>Courses: Biophysical Chemistry 1<br>Chemical Thermodynamics<br>Physical Chemistry for students of Molecular Biology<br>Computer Science and Programming 101<br>Information Technologies in Physical Chemistry          | 2014 |
| • Faculty of Physical Chemistry, Research Assistant<br>Project no. 41005, "Biomarkers in neurodegenerative and malignant processes", financed by Ministry of Education, Science and Technological Development of Republic of Serbia, chief project manager Prof. Pavle Andjus | 2013 |
| • Faculty of Physical Chemistry, Research Trainee<br>Project no. 41005, "Biomarkers in neurodegenerative and malignant processes", financed by Ministry of Education, Science and Technological Development of Republic of Serbia, chief project manager Prof. Pavle Andjus   | 2011 |

## Courses and Seminars

- „NERKA 4”, Regional Biophysical School, sponsored by IUPAB, and organized by Biophysical Society of Serbia (Belgrade, Serbia, August 30<sup>th</sup> – September 2<sup>nd</sup>, 2012);
- „Biochemical basis of healthy ageing”, organized by SFRR-Europe, IUBMB and COST actions CM1001, BM1307 and BM1203 (Spetses, Greece, September 22<sup>nd</sup> -28<sup>th</sup>, 2014);
- „7<sup>th</sup> EFEP summer school Advanced Electron Paramagnetic Resonance (EPR) Spectroscopy”, organized by EFEP (Berlin, Germany, August 24<sup>th</sup> -31<sup>st</sup>, 2015);
- „Training Course on Redox Biology in Health and Disease”, organized by COST action BM1203 (Alicante, Spain, October 2<sup>nd</sup> -8<sup>th</sup>, 2015);
- Short-Term Scientific Mission to „Université Paris Descartes” in Paris, financed by COST action BM1203 (EU-ROS).

## Awards and Stipends

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| • <b>Special acknowledgment for the outstanding achievement during studies at the Faculty of Physical Chemistry, University of Belgrade, awarded by Serbian Chemical Society</b> | <b>2011</b>      |
| • <b>Scholarship of Foundation for Young talents, Ministry of Youth and Sport, Government of the Republic of Serbia</b>  | <b>2009-2011</b> |
| • <b>Scholarship granted by Republic Foundation for the Development of Scientific and Artistic Youth, Ministry of Education, Government of the Republic of Serbia</b>            | <b>2008-2009</b> |
| • <b>Scholarship granted by Ministry of Education, Government of the Republic of Serbia</b>  | <b>2007-2008</b> |

## Research Field

**Biophysical chemistry, EPR spectroscopy and imaging, application of spectroscopic techniques in biomedicine**

## Scientific Articles

1. **A. Pavićević**, S. Glumac, J. Sopta, A. Popović-Bijelić, M. Mojović, G. Bačić, Raman microspectroscopy as a biomarking tool for in vitro diagnosis of cancer: a feasibility study, *Croatian Medical Journal*, 2012, 53, 551-557.
2. **A. Pavićević**, A. Popović-Bijelić, M. Mojović, G. Bačić, Binding of Doxyl Stearic Spin Labels to Human Serum Albumin: An EPR Study, *The Journal of Physical Chemistry B*, 2014, 118(37), 10898-10905.
3. A. G. Savic, R. Guidetti, A. Turi, **A. Pavićević**, I. Giovannini, L. Rebecchi, M. Mojovic, Superoxide Anion Radical Production in the Tardigrade *Paramacrobiotus richtersi*, the First Electron Paramagnetic Resonance Spin-Trapping Study, *Physiological and Biochemical Zoology*, 2015, 88, 451–454.
4. M. Pešić, A. Podolski-Renić, S. Stojković, B. Matović, D. Zmejkoski, V. Kojić, G. Bogdanović, **A. Pavićević**, M. Mojović, A. Savić, I. Milenković, A. Kalauzi, K. Radotić Anti-cancer effects of cerium oxide nanoparticles and its intracellular redox activity, *Chemico-Biological Interactions*, 2015, 232, 85–93.
5. G. G. Bačić, **A. Pavićević**, F. Peyrot, In vivo evaluation of different alterations of redox status by studying pharmacokinetics of nitroxides using magnetic resonance techniques, *Redox Biology*, 2016, 8, 226-242.
6. S. Stamenković, **A. Pavićević**, M. Mojović, A. Popović-Bijelić, V. Selaković, P. Andjus, G. Bačić, *In vivo* EPR pharmacokinetic evaluation of the redox status and the blood brain barrier permeability in the SOD1<sup>G93A</sup> ALS rat model, *Free Radical Biology and Medicine*, 2017, 108, 258-269.
7. J. Egea, I. Fabregat, Y.M. Frapart, P. Ghezzi, A Görlach, T. Kietzmann, K. Kubaichuk, ..., **A. Pavićević**, ..., A. Daiber, European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS), *Redox Biology*, 2017, 13, 94-162.
8. **A. Pavićević**, M. Lakočević, M. Popović, A. Popović-Bijelić, M. Daković, M. Mojović, Changes of the peripheral blood mononuclear cells membrane fluidity from type 1 Gaucher disease patients: an electron paramagnetic resonance study, *Biological Chemistry*, 2017, just accepted, doi: 10.1515/hsz-2017-0241.

9. **A. Pavićević**, J. Luo, A. Popović-Bijelić, M. Mojović, Maleimido-proxyl as an EPR spin label for the evaluation of conformational changes of albumin, *European Biophysics Journal*, 2017, doi:10.1007/s00249-017-1257-z
10. D. Novak, M. Mojovic, **A. Pavicevic**, M. Zatloukalova, L. Hernychova, M. Bartosik, J. Vacek, *Electrochemistry and electron paramagnetic resonance spectroscopy of cytochrome *c* and its heme-disrupted analogs*, *Bioelectrochemistry*, 2018, 119, 136-141.