



Dr Mira Bjelaković

Naučni savetnik

Adresa: Centar za hemiju, IHTM, Univerzitet u Beogradu, Njegoševa 12, 11000 Beograd
Laboratorija 446/I, Hemijski fakultet, Studentski trg 12-16, 11000 Beograd

Telefon: +381 11 3336666

Faks: +381 11 636061

Elektronska pošta: mbjelak@chem.bg.ac.rs

Obrazovanje: **1979** Diplomirani hemičar (Prirodno-matematički fakultet, Univerzitet u Beogradu)
1985 Magistratura, hemijske nauke (Prirodno-matematički fakultet, Univerzitet u Beogradu)
1990 Doktorat, hemijske nauke (Prirodno-matematički fakultet, Univerzitet u Beogradu)

Zvanja: **1982** Istraživač pripravnik
1985 Istraživač saradnik
1991 Naučni saradnik
1998 Viši naučni saradnik
2008 Naučni savetnik

Članstva u društvima: Srpsko hemijsko društvo

Profesionalno iskustvo: **1981 – 1982** Asistent – honorarni (Prirodno-matematički fakultet, Univerzitet u Beogradu)
1982 – IHTM – Centar za hemiju

Oblasti interesovanja: organska hemija, hemija steroida, hemija fullerena

Znanje jezika: Engleski, ruski

Najznačajniji projekti: Osnovna istraživanja:

2006 – 2010 Sinteza različitih korisnih proizvoda iz steroidnih molekula (142033)

2006 – 2010 Sinteza, karakterizacija i primena novih derivata fullerena (142049)

2011 – 2015 Dizajn, sinteza i ispitivanje nanomolekulskih mašina na bazi fullerena (172002)

- Izabrane publikacije:**
1. Mira S. Bjelaković, Ljubinka B. Lorenc, Vladimir D. Pavlović, Mihailo Lj. Mihailović, Bernard Tinant, Jean-Paul Declercq, Jaroslav Kalvoda, 13,14-Seco-steroids: A New Type of Modified Steroids Containing a Nine-Membered Ring, *Helv. Chim. Acta*, **1999**, 82 (5), 707-721.
 2. Mira S. Bjelaković, Ljubinka B. Lorenc, Vladimir D. Pavlović, Bernard Tinant, Jean-Paul Declercq, Jaroslav Kalvoda, Oxidative Fragmentations of the 5 α - and 5 β -Hydroxy-B-norcholestan-3 β -yl Acetates, *Helv. Chim. Acta*, **2003**, 86(6), 2121-2135.
 3. Mira S. Bjelaković, Natalija M. Krstić, Bernard Tinant, Jaroslav Kalvoda, Janos Csanadi, Vladimir D. Pavlović, Conformations of the Nine-membered Ring in the B-nor-5,10-Secosteroids. X-Ray and NMR-Analysis, *Helvetica Chimica Acta*, **2005**, 88(10), 2812-2821.
 4. Mira S. Bjelaković, Dejan M. Godjevac, Dragana R. Milić, Synthesis and Antioxidant Properties of Fullerene-Steroidal Covalent Conjugates, *Carbon*, **2007**, 45(11), 2260-2265.
 5. Natalija M. Krstić, Mira S. Bjelaković, Željko Žizak, Mirjana D. Pavlović, Zorica D. Juranić, Vladimir D. Pavlović, Synthesis of some steroidal oximes, lactams, thiolactams and their antitumor activity, *Steroids*, **2007**, 72, 406-414.
 6. Mira S. Bjelaković, Natalija M. Krstić, Nenad Juranić, Milan M. Dabović, Svetislav V. Gojković, Martin Kessler, Jaroslav Kalvoda, Vladimir D. Pavlović, Steroid template associated peptides: Design, synthesis and 2D NMR characterization of a novel protected 18-Phe,19-Gly-containing steroidal compound, *Tetrahedron*, **2007**, 63, 9960-9969.
 7. Mira S. Bjelaković, Natalija M. Krstić, Nina Todorović, Aleksej Krunić, Bernard Tinant, Milan M. Dabović, Vladimir D. Pavlović, 5,10:13,14-Disecosteroids: novel modified steroids containing 10- and 9-membered rings, *Tetrahedron*, **2009**, 65, 9557-9568.
 8. Mira S. Bjelaković, Natalija M. Krstić, Dragana R. Milić, Tatjana J. Kop, Koen Robeyns, Vladimir D. Pavlović, Oxidative 10-membered ring expansion and contraction of stereoisomeric 1(10)-unsaturated and 1,10-epoxy-5-oxo-5,10-secosteroids induced by peracids, *Tetrahedron*, **2012**, 68, 7479-7488.
 9. Mira Bjelaković, Nina Todorović, Dragana Milić, An Approach to Nanoparticles – Synthesis and Characterization of Fulleropeptides, *Eur. J. Org. Chem.* **2012**, 5291–5300.
 10. Mira S. Bjelaković, Tatjana J. Kop, Marina Vlajić, Jelena Đorđević, Dragana R. Milić, Design, synthesis and characterization of fullerene-peptide-steroid covalent hybrids, *Tetrahedron*, **2014**, 70, 8564-8570
 11. Mira Bjelaković, Tatjana Kop, Rada Baošić, Mario Zlatović, Andrijana Žekić, Veselin Maslak, Dragana Milić, Electrochemical, theoretical, and morphological studies of antioxidant fullerosteroids, *Monatshefte für Chemie - Chemical Monthly*, 2014, 145, 1715-1725.
 12. Mira S. Bjelaković, Tatjana J. Kop, Jelena Đorđević, Dragana R. Milić, Fulleropeptide esters as potential self-assembled antioxidants, *Beilstein J. Nanotechnol.*, **2015**, 6, 1065–1071.

13. Tatjana Kop, Mira Bjelaković, Dragana Milić, Synthesis and properties of bis(pyrrolidino)fullerenes bridged by a flexible alkyl-tether, *Tetrahedron*, **2015**, *71*, 4801-4809.
 14. Tatjana Kop, Mira Bjelaković, Jelena Đorđević, Andrijana Žekić and Dragana Milić, Fullero-pyrrolidines derived from dioxa- and trioxaalkyl-tethered diglycines, *RSC Adv.*, **2015**, *5*, 94599–94606.
 15. Mira Bjelaković, Tatjana Kop, Veselin Maslak, Dragana Milić, Synthesis and characterization of highly ordered self-assembled bioactive fulleropeptides, *J. Mat. Sci.* **2016**, *51*, 739–747.
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