

## CV - Sava M Radović

([sava.radovic@dbe.uns.ac.rs](mailto:sava.radovic@dbe.uns.ac.rs); <http://www.dbe.uns.ac.rs>)



### Education:

- 2006 – 2011 B.Sc. in Molecular biology (Faculty of Sciences at University of Novi Sad; <http://www.pmf.uns.ac.rs/en>) (GPA 9.05/10)
- 2011 – 2012 M.Sc. in Molecular biology (FSUNS; <http://www.pmf.uns.ac.rs/en>) (GPA 9.14/10)
- 2013 – pres. Ph.D. in Biology (FSUNS; <http://www.pmf.uns.ac.rs/en>)

### Career:

- November 2013 – pres. Research trainee (FSUNS; <http://www.pmf.uns.ac.rs/en>)

### Study visits/trainings:

- 29/09/2014 – 5/10/2014 The school of microscopy in Petnica Science center
- 26/02/2015 – 27/02/2015 Training on the welfare of animals used for scientific purposes, Ethics Commission on the protection of animals used for scientific purpose, University of Novi Sad

### Ongoing Research Support:

- OI173057, Kostic T (PI), 01/01/2011 – 31/12/2014 Serbian Ministry of Education, Science and Technological Development Project: “*Molecular mechanisms and signal transduction pathways involved in regulation of steroidogenesis and adaptation of Leydig cells to disturbed steroidogenesis*”, Role: Co-investigator
- APV970, Andric S (PI), 01/06/2011 – 31/12/2015 APV Province Committee for Science and Technology, Project: “Signaling pathways and molecular mechanisms involved in maintenance of sex steroids homeostasis”, Role: Co-investigator
- FNS SNFS IZ73Z0\_128070, Nef S, Andric S (PIs), 01/12/2009 – 31/11/2012, Swiss National Foundation (SNSF) SCOPEs Eastern Europe program; Project: “Investigating the role of the insulin receptor family in regulating testicular steroidogenesis”, Role: Co-investigator.

### Awards:

- 2006 – 2011 Scholarship for students, Ministry of Youth and Sports of the Republic of Serbia
- 2010 – 2012 Scholarship for Yang Talents, Hemofarm Foundation, Serbia
- 2008 – 2009 Faculty Award for Academic Achievement

### Membership in scientific associations:

- Serbian Biochemical Society – 2014.
- Serbian Society for Molecular Biology – 2015

**Languages:** Serbian (mother tongue), English (active knowledge), Russian (reading and writing knowledge)

**Research area:** Leydig cells, steroidogenesis, cell signaling, stress, mitochondrial biogenesis

### Relevant publications:

- Baburski AZ, Sokanovic SJ, Bjelic MM, **Radovic SM**, Andric SA, Kostic TS (2015) Circadian rhythm of the Leydig cells endocrine function is attenuated during aging. *Exp Gerontol*. doi: 10.1016/j.exger.2015.11.002.

- Gak IA\*, **Radovic SM\***, Dukic AR, Janjic MM, Stojkov-Mimic NJ, Kostic TS & Andric SA (2015) Stress triggers mitochondrial biogenesis to preserve steroidogenesis in Leydig cells. *BBA Mol Cell Res* 1853: 2217-2227.
- Stojkov-Mimic NJ, Bjelic MM, **Radovic SM**, Mihajlovic AI, Sokanovic SJ, Baburski AZ, Janjic MM, Kostic TS, Andric SA (2015) Intratesticular alpha1-adrenergic receptors mediate stress-disturbed transcription of steroidogenic stimulator NUR77 as well as steroidogenic repressors DAX1 and ARR19 in leydig cells of adult rats. *Mol Cell Endocrinol.* 412:309-319.
- Bjelic MM, Stojkov NJ, **Radovic SM**, Baburski AZ, Janjic MM, Kostic TS, Andric SA. (2015) Prolonged in vivo administration of Testosterone-enanthate, the widely used and abused anabolic androgenic steroid, disturbs prolactin and cAMP signaling in Leydig cells of adult rats. *J Steroid BiochemMol Biol.* 149:58-69.
- **Radović SM**, Gak IA, Kostić TS, Andrić SA. Generation of new mitochondria is possible protection mechanism of basal steroidogenesis in Leydig cells from adult rats. *III simpozijumbiologa i ekologijaRepublikeSrpske*, Banja Luka, Bosna i Hercegovina, 12–14. novembar 2015.
- Bjelić MM, **Radović SM**, Kostić TS, Andrić SA. Anabolic androgenic steroids impair steroidogenic function of adult rat Leydig cells via disruption of mitochondrial membrane potential and mitochondrial transport machinery. *III simpozijumbiologa i ekologijaRepublikeSrpske*, Banja Luka, Bosna i Hercegovina, 12–14. novembar 2015.
- Starovlah IM, **Radović SM**, Kostić TS, Andrić SA. Stress causes opposite transcription profile of Ppargc1 the main mitochondrial biogenesis regulator in testicular and adrenal steroidogenic tissue of adult rats. *III simpozijumbiologa i ekologijaRepublikeSrpske*, Banja Luka, Bosna i Hercegovina, 12–14. novembar 2015.
- Gak IA, **Radovic SM**, Stojkov – Mimic NJ, Kostic TS, Andric SA. Mitochondrial morphology and mitochondrial biogenesis are altered in Leydig cells from stressed adult rats. FEBS/EMBO Course:*Mitochondria in Life, Death and Disease – MITO 2015*, Crete, Greece, 12-16 October, 2015
- Baburski AZ, Sokanovic SJ, Bjelic MM, **Radovic SM**, Andric SA, Kostic TS. Circadian rhythm of the Leydig cells endocrine function is attenuated during aging. FEBS/EMBO Course:*Mitochondria in Life, Death and Disease – MITO 2015*, Crete, Greece, 12-16 October, 2015
- **Radovic SM**, Gak IA, Kostic TS, Andric SA. Mitochondrial biogenesis is possible adaptive response of testicular Leydig cells from stressed adult rats. 3<sup>rd</sup> Congress of the Serbian Society for Mitochondrial and Free Radical Physiology (SSMFRP), *Redox Medicine: Reactive Species Signaling, Analytical Methods, Phytopharmacy, Molecular Mechanisms of Disease*, Belgrade, Serbia, 25-26 September, 2015.
- Bjelic MM, **Radovic SM**, Kostic TS, Andric SA. Testosterone- enanthate, the widely used and abused anabolic androgenic steroid, disrupt mitochondrial membrane potential and mitochondrial proteins involved in steroidogenic function of adult rat Leydig cells. 3<sup>rd</sup> Congress of the Serbian Society for Mitochondrial and Free Radical Physiology (SSMFRP), *Redox Medicine: Reactive Species Signaling, Analytical Methods, Phytopharmacy, Molecular Mechanisms of Disease*, Belgrade, Serbia, 25-26 September, 2015.

- Starovlah IM, **Radovic SM**, Kostic TS, Andric SA. Opposite expression of mitochondrial biogenesis markers in steroid – producing cells of adrenal gland and testes from stressed adult rats. 3<sup>rd</sup> Congress of the Serbian Society for Mitochondrial and Free Radical Physiology (SSMFRP), *Redox Medicine: Reactive Species Signaling, Analytical Methods, Phytopharmacy, Molecular Mechanisms of Disease*, Belgrade, Serbia, 25-26 September, 2015.
- Baburski AZ, Sokanovic SJ, **Radovic SM**, Bjelic MM, Andric SA, Kostic TS (2015) Melatonin replacment restores the circadian behavior in adult rat Leydig cells after pinealectomy. FEBS3+Meeting: *Molecules of Life*, Portoroz, Slovenia, 16-19September, 2015.
- Gak IA\*, **Radovic SM\***, Stojkov-Mimic NJ, Kostic TS, Andric SA (2015) Stress triggers mitochondrial biogenesis to preserve steroidogenesis in Leydig cells.FEBS3+Meeting: *Molecules of Life*, Portoroz, Slovenia, 16-19September, 2015.

**Popularization of science:**

- 2011 – 2015 “Noć Biologije”
- 2011 – 2012 “Noć istraživača”