

**Silvana A. Andric**  
**CV & Bibliography**  
(November 15, 2017)



**Office Address:** Laboratory for Reproductive Endocrinology and Signaling (LaRES)

DBE, Faculty of Science, University of Novi Sad  
Dositeja Obradovica Sq. 2, 21000 Novi Sad, SERBIA

Tel: +381-21-485-2673

Mobile: +381-63-748-4403

Fax: +381-21-450-620

E-mail: [silvana.andric@dbe.uns.ac.rs](mailto:silvana.andric@dbe.uns.ac.rs)

<http://www.dbe.uns.ac.rs/en/nauka-eng/lares>

[http://www.dbe.uns.ac.rs/studije/knjiga\\_nastavnika/silvana\\_andric](http://www.dbe.uns.ac.rs/studije/knjiga_nastavnika/silvana_andric)

**Date and Place of Birth:** November 15, 1968; Novi Sad, Yugoslavia

**Education:**

- 1992 BSc, Biology, General; Faculty of Sciences, University of Novi Sad (UNS)
- 1995 MSc, Biochemistry; Faculty of Sciences, Novi Sad, University of Novi Sad (UNS)
- 1999 PhD, Reproductive Endocrinology; Faculty of Sciences, Novi Sad, University of Novi Sad (UNS)
- 2005 Post-doc, Cell Signaling; SCS, ERRB, NICHD, NIH, Bethesda, MD, USA.

**Study visits:**

1998 (July): *Summer Program* – University of Illinois at Urbana Champaign, College of Veterinary & Medicine.

1998 (August): *Visiting Scientist* - SCS, ERRB, NICHD, NIH, Bethesda, MD, USA.

1999 (April - September): *Visiting Scientist* - SCS, ERRB, NICHD, NIH, Bethesda, MD, USA.

2000 (June - September): *Visiting Scientist* - SCS, ERRB, NICHD, NIH, Bethesda, MD, USA.

06/10/2001 – 10/01/2004: *Visiting Fellow* - SCS, ERRB, NICHD, NIH, Bethesda, MD, USA.

Award Number VFYX003352. Exchange visitor program number G-3-0036

Summer 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013 - *Visiting Scientist* - SCS, PND, NICHD, NIH, USA.

**Career:**

- 1992 – 1995 Researcher and Laboratory-Teaching Assistant; Faculty of Sciences UNS
- 1995 – 1999 Researcher and Teaching Assistant; Faculty of Sciences UNS
- 1999 – Nov 2004 Assistant Professor, Section on Animal Physiology, Faculty of Sciences UNS
- 2001 – 2004 Visiting fellow, Section on Cellular Signaling, ERRB, NICHD, NIH
- 2004 – June 2009 Associate Professor, Section on Animal Physiology, Faculty of Sciences UNS
- July 2009 – pres. Full Professor, Section on Animal Physiology, Faculty of Sciences UNS

• **Certify Courses:**

2001 NIH-CTP-Laboratory Animal Care and Handling

2001 NIH-CTP-Radiation Safety

2001 NIH-FAES-TRAC12: Transgenic Technology (32 lecture/lab hours; 2 credits)

2003 NIH-FAES-TRAC30: siRNA & Functional Genomics (40 lecture/lab hours; 3 credits)

2004 NIH-CIT-CTP: Understanding of Grants Process

2004 NIH-NLM-NCBI: Exploring 3D Molecular Structures

2004 NIH-NLM-NCBI: A field Guide to GenBank

2004 NIH-NLM-NCBI: BLAST-Quickstart

2004 NIH-NLM-NCBI: LocusLink-Quickstart

2004 Confocal Microscopy Course held by Carl Zeiss Int (Germany), University of Belgrade

2005 ECTS Course organized by World University Service (WUS) Austria

2007 ECTS Course organized by World University Service (WUS) Austria

**Languages:** Serbian (mother tongue) English, Russian, Slovakian

### Career:

- 1992 – 1995 Researcher and Laboratory-Teaching Assistant; Faculty of Sciences UNS
- 1995 – 1999 Researcher and Teaching Assistant; Faculty of Sciences UNS
- 1999 – Nov 2004 Assistant Professor, Section on Animal Physiology, Faculty of Sciences UNS
- 2001 – 2004 Visiting fellow, Section on Cellular Signaling, ERB, NICHD, NIH
- 2004 – June 2009 Associate Professor, Section on Animal Physiology, Faculty of Sciences UNS
- July 2009 – pres. Full Professor, Section on Animal Physiology, Faculty of Sciences UNS

### Honors and Awards:

- 1988-1992 University of Novi Sad: Scholarship for Outstanding Students
- 1989, 1992 University of Novi Sad: Rector's Prize for Successful Studies
- 1992-1995 Yugoslav Ministry of Science: Scholarship for Graduated Studies
- 1996 ICN - Galenika Award for one of the three the best MSc. Thesis in the past year
- 1999 Soros Foundation Travel Award
- 2000 Elected as the best professor by students of biology
- 2000 – pres. Member of Young Generation of European Academy of Sciences and Arts.
- 2004 American Society of Biochemistry and Molecular Biology Travel Award
- 2004 International Society of Endocrinology Travel Award
- 2004 First Award for publications (2002-2004) funded by Serbian Ministry of Science
- 2009 Award funded by Serbian Ministry of Science

### Professional Societies:

- 1995 – present Serbian Physiological Society
- 1995 – present Serbian Biochemical Society
- 1999 – present Serbian Biological Society
- 2000 – present Young Generation of the European Academy of Sciences and Arts
- 2003 – present FEBS
- 2013 – present Serbian Society for Mitochondrial and Free Radicals Physiology
- 2015– present Serbian Molecular Biology Society

### Teaching Experiences:

*Lab Courses:* Biochemistry, General Physiology, Comparative Animal Physiology, Endocrinology, Reproductive Physiology, Reproductive Endocrinology, Molecular Endocrinology.

*Lecturer:* Basic Physiology, Animal Physiology, Comparative Animal Physiology, Molecular & Cellular Physiology, Reproductive Physiology, Reproductive Endocrinology, Mechanisms of Cell Communication, Basic Molecular & Cellular Immunology, Molecular Mechanisms of Mitochondrial Biogenesis Regulation, Molecular & Cellular Immunology.

### Mentoring

PhD candidates: **5** (1 completed)

Master candidates: **23** (20 completed)

Diploma candidates: **57** (47 completed)

### Scripts (in Serbian):

- (1) **Andrić S** & Kostić T (2007): Script of Mechanisms of Cell Communication. *Ed. WUS Austria.*
- (2) Kostic T & **Andric S** (2007): Script of Molecular and Cellular Immunology. *Ed. WUS Austria.*
- (3) **Andric S**, Kostic T, Andric N & Zoric S (2005): Script of Comparative Animal Physiology. *Ed. WUS Austria*
- (4) Matavulj M, Kostic T & **Andric S** (2005): Script of Endocrinology. *Ed. World University Service (WUS) Austria.*
- (5) Kovacevic R, Kostic T, **Andric S** & Zoric S (2005): Script of General Animal Physiology. *Ed. WUS Austria.*
- (6) Kovacevic R, Kostic T & **Andric S** (1997): Handbook of General Animal Physiology. *Ed. University of Novi Sad.*

**Research area:** Leydig cells, steroidogenesis, reproductive endocrinology, stress, cell signaling, mitochondrial biogenesis  
61 peer-review papers; citation index (source SCOPUS 2000-2015): 1193 (self citations excluded h-index 21)

**Research and Education Grants****Ongoing Research Grants**

Bilateral cooperation Serbia-Slovenia      Andric S (PI)      01/01/2016 – 31/12/2017  
 Project: *“Long-term effects of stress on development of male sexual behavior and steroidogenesis and mitochondrial signalosome in testis”*

Serbian Academy of Sciences – Academy of Sciences of the Czech Republic Andric S (PI)      01/01/2016 – 31/12/2018  
 Project: *“The CNG channels in Leydig cell – identification, characterization and functional coupling to testosterone production”*  
 Role: Principal Investigator from Serbia

APV2856      Andric S (PI)      01/06/2016 – 31/05/2019  
 APV Province Committee for Science and Technology  
 Project: *“Are the reproductive hormones linking point between stress, metabolic syndrome and aging”*  
 Role: Principal Investigator

ON173057      Kostic T (PI)      01/01/2011 – 31/12/2019  
 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 homeostasis”*  
 Role: Co-Investigator

**Ongoing Education Grants**

627-777E6E      Andric S (PI)      01/09/2016 – 31/08/2018  
 Institute for the Advancement of Education  
 Project: *“Reproductive growth and aging”*

627-777E6E      Andric S (PI)      01/09/2016 – 31/08/2018  
 Institute for the Advancement of Education  
 Project: *“Contemporary achievements and methods in human physiology”*

**Completed Research Support**

FNS SNFS IZ73ZO\_128070      Nef S, Andric S (PIs)      01/12/2009 – 31/11/2012  
 Swiss National Science Foundation (SNSF) SCOPES Eastern Europe program  
 Project: *“Investigating the role of the insulin receptor family in regulating testicular steroidogenesis”*  
 Role: Principal Investigator from Serbian part

Bilateral cooperation Serbia-Slovenia      Kostic T (PI)      01/01/2014 – 31/12/2015  
 Ministry of Science Republic of Serbia  
 Project: *“Synchronization of the Leydig cell circadian timing system: coupling cAMP signaling to clock”*  
 Role: Co-Investigator

Bilateral cooperation Serbia-Slovenia      Andric S (PI)      01/01/2010 – 31/12/2011  
 Ministry of Science Republic of Serbia  
 Project: *“Evaluation of Leydig-cell-specific knockout of Cyp51 gene function on spermatogenesis and steroidogenesis”*

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”*

APV02530      Andric S (PI)      01/06/2006 – 31/12/2010  
 APV Province Committee for Science and Technology  
 Project: *“Molecular physiology of Leydig cells in response to stress”*

**Completed Education Grants**

WUS-C.D.P+ -SE118-2006      Andric S (PI)      01/07/2006 – 31/06/2007  
 World University Service Austria *“Support to Higher Education in Serbia and Montenegro in 2005/2007”* (Project No: 8093-01-2005)  
 Project: *“Module: Molecules and Cells in Health and Disease: Molecular and Cellular Immunology; Mechanisms of Cell Signaling”*

## PUBLICATIONS

- Starovlah IM, Radovic SM, Marinovic MA, Kostic TS & **Andric SA** (2017) Circadian rhythm patterns of NO-cGMP signaling are moderately synchronized by melatonin in testosterone-producing Leydig cells. *Biol Serbica* DOI 10.5281/zenodo.827157.
- Kaisarevic SN, **Andric SA** & Kostic TS (2017). Teaching Animal Physiology: a 12-year experience transitioning from a classical to interactive approach with continual assessment and computer alternatives. *Adv Physiol Educ* 41:405-414.
- Baburski AZ, Medar MLJ, **Andric SA**, Kostic TS (2017) Circadian rhythm patterns of NO-cGMP signaling are moderately synchronized by melatonin in testosterone-producing Leydig cells. *Biol Serbica* 39:17-24.
- Baburski AZ, Sokanovic SJ, **Andric SA** & Kostic TS (2017). Aging has the opposite effect on cAMP and cGMP circadian variations in rat Leydig cells. *J Comp Physiol B* 187:613-623.
- Baburski AZ, Sokanovic SJ, Radovic SM, Bjelic MM, **Andric SA** & Kostic TS (2016). Circadian rhythm of the Leydig cells endocrine function is attenuated during aging. *Exp Gerontol* 73:5-13.
- Gak IA\*, Radovic SM\*, Dukic AR, Janjic MM, Stojkov-Mimic NJ, Kostic TS & **Andric SA** (2015). Stress stimulates mitochondrial biogenesis to preserve steroidogenesis in Leydig cells of adult rats. *BBA Mol Cell Res* 1853: 2217-2257.
- Baburski AZ, Sokanovic SJ, Janjic MM, Stojkov NJ, Bjelic MM, **Andric SA** & Kostic TS (2015). Melatonin replacement restores the circadian behavior in adult rat Leydig cells after pinealectomy. *Mol Cell Endo* 413: 26-35.
- 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 Endo* 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 Biochem Mol Biol* 149: 58-69.
- Bjelic MM, Stojkov NJ, Mihajlovic AI, Baburski AZ, Sokanovic SJ, Janjic MM, Kostic TS & **Andric SA** (2014). Molecular adaptations of testosterone-producing Leydig cells during systemic *in vivo* blockade of the androgen receptor. *Mol Cell Endo* 396 (1-2): 10-25.
- Sokanovic SJ, Janjic MM, Stojkov NJ, Baburski AZ, Bjelic MM, **Andric SA** & Kostic TS (2014). Age-related changes in cAMP and MAPK signaling in Leydig cells of Wistar rats. *Exp Gerontol* 58: 19-29.
- Stojkov NJ, Baburski AZ, Bjelic MM, Sokanovic SJ, Mihajlovic AI, Drljaca DM, Janjic MM, Kostic TS & **Andric SA** (2014). *In vivo* blockade of alpha1-adrenergic receptors mitigates stress-disturbed cAMP & cGMP signaling in Leydig cells. *Mol Hum Reprod* 20 (1):77-88.
- Stojkov NJ, Janjic MM, Kostic TS & **Andric SA** (2013). *In vitro* blockade of  $\alpha_1$  adrenergic receptors ( $\alpha_1$  ADRs) affects testosterone production in Leydig cells of adult rats. *Biol Serb* 35 (1-2):48-56.
- Sokanovic SJ, Baburski AZ, Janjic MM, Stojkov NJ, Bjelic MM, Lalosevic D, **Andric SA**, Stojilkovic SS & Kostic TS (2013). The opposing roles of nitric oxide and cGMP in the age-associated decline in rat testicular steroidogenesis. *Endocrinology* 154(10): 3914-3924.
- Stojkov NJ, Baburski AZ, Janjic MM, Bjelic MM, Mihajlovic AI, Drljaca DM, Sokanovic SJ, Kostic TS & **Andric SA** (2013) Sustained *in vivo* blockade alpha1-adrenergic receptors prevented some of stress-triggered effects on steroidogenic machinery in Leydig cells. *Am J Physiol Endocrinol Metab* 305 (2): E194-E204.
- Stojkov NJ, Janjic MM, Kostic TS & **Andric SA** (2013) Orally applied Doxazosin disturbed testosterone homeostasis and changed the transcriptional profile of steroidogenic machinery, cAMP/cGMP signaling and adrenergic receptors in Leydig cells of adult rats. *Andrology* 1 (2): 332-347.
- Andric SA**, Kojic Z, Bjelic MM, Mihajlovic AI, Baburski AZ, Sokanovic SJ, Janjic MM, Stojkov NJ, Stojilkovic SS & Kostic TS (2013). The opposite role of glucocorticoid and alpha1-adrenergic receptors in stress-triggered apoptosis of Leydig cells. *Am J Physiol Endocrinol Metab* 304 (1): E51-E59.
- Andric SA**, Janjic MM, Stojkov NJ & Kostic TS (2012) NO-cGMP signaling increases the mitochondrial membrane potential and affects androgenesis in Leydig cells. *Biol Serb* 34 (1): 12-16.
- Janjic MM, Stojkov NJ, **Andric SA** & Kostic TS (2012) Anabolic-androgenic steroids induce apoptosis and NOS2 (nitric oxide synthase 2) in adult rat Leydig cells following *in vivo* exposure. *Reprod Toxicol* 34(4):686-693.
- Janjic MM, Stojkov NJ, Bjelic MM, Mihajlovic AI, **Andric SA** & Kostic TS (2012) Transient rise of serum testosterone level after single sildenafil treatment of adult male rats *J Sex Med* 10 (9): 2534-2543.
- Stojkov NJ, Janjic MM, Bjelic MM, Mihajlovic AI, Kostic TS & **Andric SA** (2012) Repeated immobilization stress disturbed steroidogenic machinery & stimulated the expression of cAMP signaling elements & adrenergic receptors in Leydig cells. *Am J Physiol Endocrinol Metab* 302(10): E1239-E1251.

- Kostic TS, Stojkov NJ, Bjelic MM, Mihajlovic AI, Janjic MM & **Andric SA**. (2011) Pharmacological doses of testosterone up-regulated androgen receptor (AR) and 3-beta-hydroxysteroid dehydrogenase/delta-5-delta-4 isomerase (3bHSD) and impaired Leydig cells steroidogenesis in adult rat. *Toxicol Sci* 121(2): 397–407.
- Andric SA**, Janjic MM, Stojkov NJ & Kostic TS (2010): Sildenafil treatment *in vivo* stimulates Leydig cell steroidogenesis via cAMP and cGMP signaling pathway. *Am J Physiol Endocrinol Metab* 299(4): E544-E450.
- Andric SA**, Janjic MM, Stojkov NJ & Kostic TS (2010): Testosterone-induced modulation of Nitric Oxide-cGMP signaling pathway and androgenesis in the rat Leydig cells. *Biol Reprod* 83(3): 434-442.
- Kostic TS, Stojkov NJ, Janjic MM & **Andric SA** (2010): Structural complexity of the testis and PKG-I/StAR interaction regulate the Leydig cell adaptive response to repeated immobilization stress. *Int J Androl* 33(5): 717-729.
- Stojilkovic SS, Murano T, Gonzalez-Iglesias AE, **Andric SA**, Popovic MA, Van Goor F & Tomic M (2009): Multiple roles of Gi/o protein-coupled receptors in control of action potential secretion coupling in pituitary lactotrophs. *Ann N Y Acad Sci* 1152: 174-186. Review.
- Kostic TS, Stojkov NJ, Janjic MM, Maric D & **Andric SA** (2008): The adaptive response of adult rat Leydig cells to repeated immobilization stress: Role of PKA and StAR protein. *Stress* 11(5): 370-380.
- Cokic VP, **Andric SA**, Stojilkovic SS, Noguchi CT & Schechter AN (2008): Hydroxyurea nitrosylates and activates soluble guanyll cycles in human erythroid cells. *Blood* 111 (3): 1117-1123.
- Djurendic EA, Sakac MN, Zavis M, Gakovic AR, Canadi JJ, **Andric SA**, Klisuric OR, Kojic VV, Bogdanovic GM & Gasi KM (2008): Synthesis and biological evaluation of some new A,B-ring modified steroidal D-lactones. *Steroids* 73 (6): 681-688.
- Djurendic EA, Daljev JJ, Sakac MN, Canadi J, Santa SJ, **Andric S**, Klisuric O, Kojic V, Bogdanovic G, Djurendic-Brenesel M, Novakovic S, Gasi KP (2008): Synthesis of some epoxy and/or N-oxy 17-picolyl and 17-picolinylidene-androst-5-ene derivatives and evaluation of their biological activity. *Steroids* 73 (1): 129-138.
- Andric SA**, Janjic MM, Stojkov NJ & Kostic TS (2007): Protein kinase G – mediated stimulation of basal Leydig cell steroidogenesis. *Am J Physiol Endocrinol Metab* 293 (5): E1399-E1408.
- Sakac MN, Penov-Gasi KM, Djurendic EA, **Andric S**, & Miljkovic DA (2007): Synthesis and biological evaluation 17-[4-(2-aminoethoxy)phenyl]-16,17- secoestra-1,3,5(10)-triene derivatives. *Coll Czech Chem Comm* 72 (3): 403-410.
- Gasi KM, Brenesel MDj, Djurendic EA, Sakac MN, Canadi JJ, Daljev JJ, Armbruster T, **Andric S**, Sladic DM, Bozic TT, Novakovic IT, Juranic ZD (2007): Synthesis, X-ray crystal structures and biological activity of 16-amino-17-substituted –D-homosteroid derivatives. *Steroids* 72 (1): 31-40.
- Gonzalez-Iglesias AE, Jiang Y, Tomic M, Kretschmannova K, **Andric SA**, Zemkova H & Stojilkovic SS (2006): Dependence of electrical activity and Ca<sup>2+</sup> influx-controlled prolactin release on adenylyl cyclase signaling pathway in pituitary lactotrophs. *Mol Endocrinol* 20 (9): 2231-2246.
- Andric SA**, Kostic TS & Stojilkovic SS (2006): Contribution of multidrug resistance protein - MRP5 in control of cGMP intracellular signaling in anterior pituitary cells. *Endocrinology* 147 (7): 3435-3445.
- Andric NL, Kostic TS, Zoric SN, Stanic BD, **Andric SA**, Kovacevic R Z (2006): Effect of a PCB-based transformer oil on testicular steroidogenesis and xenobiotics-metabolizing enzymes. *Reprod Toxicol* 22: 102-110.
- Andric SA**, Zivadinovic D, Gonzalez-Iglesias AE, Lachowicz A, Tomic M & Stojilkovic SS (2005): Endothelin-induced long lasting and Ca<sup>2+</sup> influx-independent blockade of intrinsic secretion in pituitary cells by G<sub>z</sub> subunits. *J Biol Chem* 280 (28): 26896-26903.
- Sakac MN, Penov-Gasi KM, Popsavin M, Djurendic EA, **Andric S**, & Kovacevic R (2005): Synthesis and estrogenic activity screening of some 6,9-disubstituted estradiol derivatives. *Coll Czech Chem Comm* 70: 479-486.
- Sakac MN, Miljkovic DA, Penov-Gasi KM, Popsavin M, Klisuric OR, Stankovic SM, **Andric S**, & Kovacevic R (2005): Synthesis, X-ray crystal structure and antiestrogenic activity of 17-methyl-16,17-secoestra-1,3,5(10)-triene derivatives. *Coll Czech Chem Comm* 70: 63-71.
- Mirkov S, Djordjevic A, Andric N, **Andric S**, Kostic T, Bogdanovic G, Vojinovic-Miloradov M & Kovacevic R (2004): Nitric oxide-scavenging activity of polyhydroxylated fullerene C60(OH)<sub>24</sub>. *Nitric Oxide* 11: 200-206.
- Kostic TS, **Andric SA** & Stojilkovic SS (2004): Receptor-controlled phosphorylation of  $\alpha$  1 soluble guanylyl cyclase enhances nitric oxide-dependent cyclic guanosine 5'-monophosphate production in pituitary cells. *Mol Endocrinol* 18 (2): 458-470.
- Andric NL, **Andric SA**, Zoric SN, Kostic TS, Stojilkovic SS & Kovacevic RK (2003): Parallelism and dissociation in the actions of Aroclor 1260-based transformer fluid on testicular androgenesis and antioxidant enzymes. *Toxicology* 194 (1-2): 65-75
- Jovanovic-Santa S, Petrovic J, **Andric S**, Djurendic EA, Sakac MN, Lazar D & Stankovic SM (2003): Synthesis, structure, and screening of estrogenic and antiestrogenic activity of new 3,17-substituted-16,17-seco-estratriene derivatives. *Bioorg Chem*. 31(6): 475-84.

- Penov-Gasi KM, Miljkovic DA, Medic-Mijacevic LD, Djurendic EA, Stojanovic SZ, Sakac MN, Djurendic MDj, Stankovic SM, Lazar D, **Andric S** & Kovacevic R (2003): Synthesis, X-ray crystal structures and biological activity of 16-amino-17-substituted –D-homosteroid derivatives. *Steroids* 68 (7-8): 667-676.
- Andric SA**, Gonzalez-Iglesias AE, Van-Goor F, Tomic M & Stojilkovic SS (2003): Nitric oxide inhibits prolactin secretion in pituitary cells downstream of voltage-gated calcium influx. *Endocrinology* 144 (7): 12912-12921.
- Tomic M, **Andric SA** & Stojilkovic SS (2003): Dependence of prolactin release of coupling between Ca<sup>++</sup> mobilization and voltage-gated Ca<sup>++</sup> influx pathways in rat lactotrophs. *J Endocrine* 20 (1/2): 45-52.
- Andric SA**, Andric NL, Zoric S, Kostic T & Kovacevic RK (2003): Effects of polychlorinated biphenyl-containing and –free transformer fluids on testicular enzyme activities. *Fresenius Environmental Bulletin* 12: 245-249.
- Andric N, **Andric S**, Zoric S, Kostic T & Kovacevic RK (2002): Effects of commercial PCB mixture on rat testicular enzyme activities. *Proceedings of the 6<sup>th</sup> International Symposium Interdisciplinary Regional Research* (Hungary, Romania, SERBIA and MONTENEGRO). University of Novi Sad, SERBIA and MONTENEGRO, CD 0103:1-6.
- Stankovic S, Lazar D, Medic-Mijacevic L, Penov-Gasi K, Sakac M, **Andric S** & Bruvo M (2002): D-Secoestrone derivatives. VI. 17 beta-Benzyl-17 alpha-hydroxy-3-methoxyestra-1,3,5(10)-trien-16-one. *Acta Crystallogr* 58 (Pt 3): 172-3.
- Kostic TS, **Andric SA**, Tomic M & Stojilkovic SS (2002): Calcium-independent and cAMP-dependent modulation of soluble guanylyl cyclase activity by G-protein coupled receptors in pituitary cells. *J Biol Chem* 277(19):16412-16418.
- Andric NL, **Andric SA**, Kostic TS, Dragisic SM SS & Kovacevic RK (2002): Inhibitor effects of L-arginine methyl ester on antioxidant enzymes and stress-impaired steroidogenesis in rat testes. *Review of Research, Faculty of Science, Biology Series* 30: 43-57.
- Andric S.A.**, Kostic T.S., Dragisic S.M., Andric N., Stojilkovic S.S. and Kovacevic R. (2001): Testicular enzymes as sensor to chemical stressors. *Biomarkers of Environmental Contamination, Proceeding*: T3-01.
- Andric SA**, Kostic TS, Dragisic SM, Stojilkovic SS & Kovacevic RZ (2001): Acute *in vivo* and *in vitro* effects of Aroclors on rat testicular steroidogenesis. In: *PCBs-Recent Advances in the Environmental Toxicology and Health Effects*, edited by Larry W. Robertson and Larry G. Hansen. The University Press of Kentucky, pp 303-307.
- Kostic TS, **Andric SA** & Stojilkovic SS (2001): Spontaneous and receptor-controlled soluble guanylyl cyclase activity in anterior pituitary cells. *Mol Endocrinol* 15 (6): 1010-1022.
- Penov-Gasi KM, Stankovic SM, Csanadi JJ, Djurendic EA, Sakac MN, Medic-Mijacevic Lj, Molnar-Gabor D, Arcson ON, Stojanovic SZ, **Andric SA**, & Kovacevic RZ (2001): New D-modified androstane derivatives as aromatase inhibitors. *Steroids* 66 (8): 645-654.
- Andric SA**, Kostic TS, Tomic M, Koshimizu T & Stojilkovic SS (2000): Dependence of soluble guanylyl cyclase activity on calcium signaling in pituitary cells. *J Biol Chem* 276: 844-849.
- Kostic TS, **Andric SA**, Maric D & Kovacevic RZ (2000): Inhibitory effects of stress-activated nitric oxide on antioxidant enzymes and testicular steroidogenesis. *J Steroid Biochem Molec Biol* 75 (4-5): 299-306.
- Grubor-Lajsic G, **Andric SA**, Andric N, Dragisic S, Taski K, Stanic B, Kostic T and Kovacevic R (2000): Antioxidant enzymes changes in aquatic biota – an answer to oil refinery spills. *Central European Journal of Occupational and Environmental Medicine* 6 (2-3): 189-193.
- Jovanovic-Santa S, **Andric S**, Kovacevic R & Pejanovic V (2000): Synthesis and biological activity of new 16,17-secoestrone derivatives. *Coll Czech Chem Comm* 65: 77-82.
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- Andric SA**, Kostic TS, Stojilkovic SS & Kovacevic R (2000): Inhibition of rat testicular androgenesis by a polychlorinated biphenyl mixture Aroclor 1248. *Biol Reprod* 62: 1882-1888.
- Tomic M, Koshimizu T, Yuan D, **Andric SA**, Zivadinovic D & Stojilkovic SS (1999): Characterization of a plasma membrane oscillator in rat pituitary somatotrophs. *J Biol Chem* 274: 35693-35702.
- Kostic TS, **Andric SA**, Maric D, Stojilkovic SS & Kovacevic R (1999): Involvement of inducible nitric oxide synthase in stress-impaired testicular steroidogenesis. *J Endocrinol* 163: 409-416.
- Kostic TS, **Andric SA**, Dragisic SM, Kovacevic R & Maric D (1999): Nitric oxide is involved in down regulation of testicular steroidogenesis in stress conditions. *Internat Symp Interdiscip Region Research, Proceedings, part II*: 483-486.
- Andric S**, Kostic TS, Vojinovic-Miloradov M, Dragisic SM, Stojilkovic SS & Kovacevic R (1999): Acute effects of PCB- and mineral oil-based dielectric fluids on antioxidant enzyme activities in adult rat testis. *Internat Symp Interdiscip Region Research, Proceeding, part II*: 915-918.

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