



Silvana A. Andric
CV & Bibliography
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Office Address: Laboratory for Reproductive Endocrinology and Signaling (LaRES)

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Date and November 15, 1968
Place of Birth: 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

Teaching Experiences:

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

Lecturer: Basic Physiology, Animal Physiology, Comparative Animal Physiology, Molecular & Cellular Physiology, Reproductive Physiology, Reproductive Endocrinology, Mechanisms of Cell Communication, Molecular & Cellular Immunology

Mentoring

Post-doc candidates: **1**
PhD candidates: **5** (1 completed)
Master candidates: **23** (20 completed)
Diploma candidates: **31** (all completed)

APV Province Committee for Science and Technology

Project: "Molecular physiology of Leydig cells in response to stress"

Role: Principal Investigator

ON143055

Kostic T (PI)

01/01/2006 – 31/12/2010

National Ministry of Science and Environmental Protection,

Project: "NO-cGMP related mechanisms in regulation of Leydig cell steroidogenesis"

Role: Co-Investigator

Bilateral cooperation Serbia-Slovenia

Kostic T (PI)

01/01/2008 – 31/12/2009

Ministry of Science Republic of Serbia

Project: "cGMP involvement in inflammatory response of chicken macrophage to *Mycoplasma synoviae*"

Role: Co-Investigator

PL 043559 – REP-LECOTOX

Kovacevic R (PI)

01/01/2007 – 31/12/2009

FP6 – 2005 – INCO – WBC/SSA3

Project: "Reinforcement of Research Potential of the Laboratory for Ecotoxicology – REP-LECOTOX"

Role: Co-Investigator

Completed Teaching Support

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"

Role: Principal Investigator

WUS-C.D.P+ -SE041-02

Kovacevic R (PI)

01/01/2004 – 12/31/2005

World University Service Austria

Project: "Physiological Module: General Physiology, Comparative Animal Physiology and Endocrinology"

Role: Co-Investigator – Lecturer for the Comparative Animal Physiology

WUS-C.E.P-SE041

Kovacevic R (PI)

01/01/2002 – 12/31/2003

World University Service Austria

Project: "Biomarkers of exposure and of effects of persistent organic pollutants in ecosystem" (purchased CO₂ incubator and safety bench).

Role: Co-Investigator

PUBLICATIONS

- 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: 2217-2227.
- 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 α_1 -adrenergic receptors (α_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.
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- 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.
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- 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.
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- 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 Ca²⁺ 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 Ca²⁺ influx-independent blockade of intrinsic secretion in pituitary cells by G_z 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.
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- Kostic TS, **Andric SA** & Stojilkovic SS (2004): Receptor-controlled phosphorylation of α 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.
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- 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⁺⁺ mobilization and voltage-gated Ca⁺⁺ 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 6th International Symposium Interdisciplinary Regional Research* (Hungar, Romania, SERBIA and MONTENEGRO). University of Novi Sad, SERBIA and MONTENEGRO, CD 0103:1-6.
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- 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.
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- 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.
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- 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.
- Andric SA**, Kostic TS, Dragisic SM, Andric NL, Stojilkovic SS, Kovacevic RZ (2000): Acute effects of polychlorinated biphenyl-containing and -free transformer fluids on rat testicular steroidogenesis. *Environ Health Perspect* 108: 955-959.
- 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.
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- 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.
- Andric S**. (1999): Acute effects of commercial mixture of polychlorinated biphenyls (PCBs) on the steroidogenic functions of the testes. *Ph.D. Thesis*. Faculty of Sciences, University of Novi Sad.
- Kovacevic R, **Andric S**, Kostic T, Lazetic B & Pekaric-Nadj N (1999): The effect of chronic exposure of male rats to 50 Hz magnetic field: III Steroidogenic capacity of whole testes and Leydig cells *in vitro*. *Bull Exp Biol Med* 45: 135-138..
- Petrovic J, Penov-Gasi K, Sakac M, Jovanovic-Santa S, Arcson O, Djurendic E, Kovacevic R, **Andric S**, Stankovic S & Lazar D. (1998): New biological active estrone and androstenedione derivatives with modification in D ring. *Patent, P-128/98*.
- Kostic T, **Andric S**, Kovacevic R & Maric D (1998): Stress and paracrine regulation of Leydig cell function. In: *Basic and clinical aspects of the theory of functional systems*. Eds. B. Lazetic, K.V. Sudakov & P.K. Anokhin: 215-221.

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- Petrovic AJ, Stepic T, Pejanovic MV, Medic-Mijacevic L, Kovacevic R, **Andric SA** & Stankovic MS (1998): Synthesis and biological activity of two new D-secoestrone derivatives. *J Serb Chem Soc* 63: 113-116.
- Kostic T, **Andric S**, Kovacevic R & Maric D (1997): The effect of opioid antagonists in local regulation of testicular response to acute stress in adult rats. *Steroids* 62: 703-708.
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- Andric S** (1995): Investigation of potential antiandrogenic activity of 16,17-disubstituted steroid derivatives. *M. Sc. Thesis*. Faculty of Natural Sciences, University of Novi Sad.
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- Patent:** Petrovic J., Penov-Gasi K., Sakac M., Jovanovic-Santa S., Arcson O., Djurendic E., Kovacevic R., **Andric S.**, Stankovic S & Lazar D. (1998): New biological active estrone and androstenedione derivatives with modification in D ring. Patent SRJ *P-128/98*.