

# Tatjana S Kostic

## List of Publications by Citations

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48  
papers

1,159  
citations

21  
h-index

33  
g-index

54  
ext. papers

1,307  
ext. citations

4.2  
avg, IF

4.1  
L-index

#	Paper	IF	Citations
48	Nitric oxide-scavenging activity of polyhydroxylated fullereneol, C <sub>60</sub> (OH) <sub>24</sub> . <i>Nitric Oxide - Biology and Chemistry</i> , <b>2004</b> , 11, 201-7	5	154
47	cGMP signaling pathway is involved in Leydig cell stress response. <i>BMC Pharmacology</i> , <b>2007</b> , 7,		78
46	Inhibition of rat testicular androgenesis by a polychlorinated biphenyl mixture aroclor 1248. <i>Biology of Reproduction</i> , <b>2000</b> , 62, 1882-8	3.9	69
45	Sildenafil treatment in vivo stimulates Leydig cell steroidogenesis via the cAMP/cGMP signaling pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2010</b> , 299, E544-50	6	55
44	Inhibitory effects of stress-activated nitric oxide on antioxidant enzymes and testicular steroidogenesis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2000</b> , 75, 299-306	5.1	52
43	Spontaneous and receptor-controlled soluble guanylyl cyclase activity in anterior pituitary cells. <i>Molecular Endocrinology</i> , <b>2001</b> , 15, 1010-22		51
42	Protein kinase G-mediated stimulation of basal Leydig cell steroidogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 293, E1399-408	6	49
41	Testosterone-induced modulation of nitric oxide-cGMP signaling pathway and androgenesis in the rat Leydig cells. <i>Biology of Reproduction</i> , <b>2010</b> , 83, 434-42	3.9	47
40	Contribution of multidrug resistance protein MRP5 in control of cyclic guanosine 5' monophosphate intracellular signaling in anterior pituitary cells. <i>Endocrinology</i> , <b>2006</b> , 147, 3435-45	4.8	43
39	The involvement of nitric oxide in stress-impaired testicular steroidogenesis. <i>European Journal of Pharmacology</i> , <b>1998</b> , 346, 267-73	5.3	41
38	Circadian rhythm of the Leydig cells endocrine function is attenuated during aging. <i>Experimental Gerontology</i> , <b>2016</b> , 73, 5-13	4.5	31
37	Pharmacological doses of testosterone upregulated androgen receptor and 3-Beta-hydroxysteroid dehydrogenase/delta-5-delta-4 isomerase and impaired leydig cells steroidogenesis in adult rats. <i>Toxicological Sciences</i> , <b>2011</b> , 121, 397-407	4.4	31
36	Repeated immobilization stress disturbed steroidogenic machinery and stimulated the expression of cAMP signaling elements and adrenergic receptors in Leydig cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2012</b> , 302, E1239-51	6	29
35	Involvement of inducible nitric oxide synthase in stress-impaired testicular steroidogenesis. <i>Journal of Endocrinology</i> , <b>1999</b> , 163, 409-16	4.7	29
34	Age related changes of cAMP and MAPK signaling in Leydig cells of Wistar rats. <i>Experimental Gerontology</i> , <b>2014</b> , 58, 19-29	4.5	28
33	Melatonin replacement restores the circadian behavior in adult rat Leydig cells after pinealectomy. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 413, 26-35	4.4	26
32	Receptor-controlled phosphorylation of alpha 1 soluble guanylyl cyclase enhances nitric oxide-dependent cyclic guanosine 5' monophosphate production in pituitary cells. <i>Molecular Endocrinology</i> , <b>2004</b> , 18, 458-70		25

31	Anabolic-androgenic steroids induce apoptosis and NOS2 (nitric-oxide synthase 2) in adult rat Leydig cells following in vivo exposure. <i>Reproductive Toxicology</i> , <b>2012</b> , 34, 686-93	3.4	24
30	Dependence of soluble guanylyl cyclase activity on calcium signaling in pituitary cells. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 844-9	5.4	23
29	Luteinizing hormone signaling is involved in synchronization of Leydig cell clock and is crucial for rhythm robustness of testosterone production. <i>Biology of Reproduction</i> , <b>2019</b> , 100, 1406-1415	3.9	22
28	The effect of opioid antagonists in local regulation of testicular response to acute stress in adult rats. <i>Steroids</i> , <b>1997</b> , 62, 703-8	2.8	21
27	Effect of a PCB-based transformer oil on testicular steroidogenesis and xenobiotic-metabolizing enzymes. <i>Reproductive Toxicology</i> , <b>2006</b> , 22, 102-10	3.4	21
26	The opposing roles of nitric oxide and cGMP in the age-associated decline in rat testicular steroidogenesis. <i>Endocrinology</i> , <b>2013</b> , 154, 3914-24	4.8	20
25	The opposite roles of glucocorticoid and $\beta$ -adrenergic receptors in stress triggered apoptosis of rat Leydig cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2013</b> , 304, E51-9	6	18
24	Transient rise of serum testosterone level after single sildenafil treatment of adult male rats. <i>Journal of Sexual Medicine</i> , <b>2012</b> , 9, 2534-43	1.1	16
23	Stress triggers mitochondrial biogenesis to preserve steroidogenesis in Leydig cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2015</b> , 1853, 2217-27	4.9	16
22	Calcium-independent and cAMP-dependent modulation of soluble guanylyl cyclase activity by G protein-coupled receptors in pituitary cells. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 16412-8	5.4	16
21	In vivo blockade of $\beta$ -adrenergic receptors mitigates stress-disturbed cAMP and cGMP signaling in Leydig cells. <i>Molecular Human Reproduction</i> , <b>2014</b> , 20, 77-88	4.4	15
20	Sustained in vivo blockade of $\beta$ -adrenergic receptors prevented some of stress-triggered effects on steroidogenic machinery in Leydig cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2013</b> , 305, E194-204	6	15
19	Parallelism and dissociation in the actions of an Aroclor 1260-based transformer fluid on testicular androgenesis and antioxidant enzymes. <i>Toxicology</i> , <b>2003</b> , 194, 65-75	4.4	14
18	Molecular adaptations of testosterone-producing Leydig cells during systemic in vivo blockade of the androgen receptor. <i>Molecular and Cellular Endocrinology</i> , <b>2014</b> , 396, 10-25	4.4	11
17	Aging has the opposite effect on cAMP and cGMP circadian variations in rat Leydig cells. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2017</b> , 187, 613-623	2.2	10
16	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. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2015</b> , 149, 58-69	5.1	9
15	Long-term inhibition of PDE5 ameliorates aging-induced changes in rat testis. <i>Experimental Gerontology</i> , <b>2018</b> , 108, 139-148	4.5	9
14	Insulin/IGF1 signaling regulates the mitochondrial biogenesis markers in steroidogenic cells of prepubertal testis, but not ovary. <i>Biology of Reproduction</i> , <b>2019</b> , 100, 253-267	3.9	9

13	Dependence of Leydig Cell Mitochondrial Physiology on Luteinizing Hormone Signaling. <i>Life</i> , <b>2020</b> , 11, 3 6
12	Aging-Related Increase of cGMP Disrupts Mitochondrial Homeostasis in Leydig Cells. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2021</b> , 76, 177-186 6.4 6
11	Reduced spermatozoa functionality during stress is the consequence of adrenergic-mediated disturbance of mitochondrial dynamics markers. <i>Scientific Reports</i> , <b>2020</b> , 10, 16813 4.9 5
10	Regulation of Leydig cell steroidogenesis: intriguing network of signaling pathways and mitochondrial signalosome. <i>Current Opinion in Endocrine and Metabolic Research</i> , <b>2019</b> , 6, 7-20 1.7 4
9	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. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 412, 309-19 4.4 3
8	Teaching Animal Physiology: a 12-year experience transitioning from a classical to interactive approach with continual assessment and computer alternatives. <i>American Journal of Physiology - Advances in Physiology Education</i> , <b>2017</b> , 41, 405-414 1.9 2
7	Growing Up Under Constant Light: A Challenge to the Endocrine Function of the Leydig Cells. <i>Frontiers in Endocrinology</i> , <b>2021</b> , 12, 653602 5.7 2
6	Mitochondrial Dynamics Markers and Related Signaling Molecules Are Important Regulators of Spermatozoa Number and Functionality. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22, 6.3 2
5	Deficiency in insulin-like growth factors signalling in mouse Leydig cells increase conversion of testosterone to estradiol because of feminization. <i>Acta Physiologica</i> , <b>2021</b> , 231, e13563 5.6 1
4	Stress-induced glucocorticoids alter the Leydig cell swimming and steroidogenesis-related systems. <i>Molecular and Cellular Endocrinology</i> , <b>2021</b> , 538, 111469 4.4 0
3	Involvement of nitric oxide-cGMP signaling in Leydig cell stress response. <i>FASEB Journal</i> , <b>2007</b> , 21, A622.9
2	Protein kinase G-dependent stimulation of Leydig cell steroidogenesis. <i>FASEB Journal</i> , <b>2007</b> , 21, A622 0.9
1	4249 Markers of mitochondrial biogenesis, fusion and architecture are disturbed in PBMC from war veterans with posttraumatic stress disorder (PTSD). <i>Journal of Clinical and Translational Science</i> , <b>2020</b> , 4, 98-99 0.4