

# Tatjana S Kostic

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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         |
| 47 | 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         |
| 46 | 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         |
| 45 | 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         |
| 44 | Stress-induced glucocorticoids alter the Leydig cells Warming and steroidogenesis-related systems. <i>Molecular and Cellular Endocrinology</i> , <b>2021</b> , 538, 111469   | 4.4 | 0         |
| 43 | Dependence of Leydig Cell W Mitochondrial Physiology on Luteinizing Hormone Signaling. <i>Life</i> , <b>2020</b> , 11,   | 3   | 6         |
| 42 | 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 |           |
| 41 | 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         |
| 40 | 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         |
| 39 | Luteinizing hormone signaling is involved in synchronization of Leydig cell W clock and is crucial for rhythm robustness of testosterone production. <i>Biology of Reproduction</i> , <b>2019</b> , 100, 1406-1415   | 3.9 | 22        |
| 38 | 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         |
| 37 | 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         |
| 36 | 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        |
| 35 | 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         |
| 34 | 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        |
| 33 | 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         |
| 32 | 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        |

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|----|--|-----|----|
| 31 | 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  |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 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 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | cGMP signaling pathway is involved in Leyding cell stress response. <i>BMC Pharmacology</i> , <b>2007</b> , 7,   |     | 78 |
| 16 | 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 |
| 15 | Involvement of nitric oxide-cGMP signaling in Leyding cell stress response. <i>FASEB Journal</i> , <b>2007</b> , 21, A622.9  |     |    |
| 14 | Protein kinase G-dependent stimulation of Leydig cell steroidogenesis. <i>FASEB Journal</i> , <b>2007</b> , 21, A622   | 0.9 |    |

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|----|--|-----|-----|
| 13 | 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  |
| 12 | 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  |
| 11 | 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  |
| 10 | Nitric oxide-scavenging activity of polyhydroxylated fullereneol, C60(OH)24. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2004</b> , 11, 201-7   | 5   | 154 |
| 9  | 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  |
| 8  | 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  |
| 7  | 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  |
| 6  | Spontaneous and receptor-controlled soluble guanylyl cyclase activity in anterior pituitary cells. <i>Molecular Endocrinology</i> , <b>2001</b> , 15, 1010-22  |     | 51  |
| 5  | 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  |
| 4  | 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  |
| 3  | 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  |
| 2  | 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  |
| 1  | 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  |