

# Tatiana V Sokolova

## List of Publications by Year in descending order

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33  
papers

689  
citations

759055

12  
h-index

552653

26  
g-index

35  
all docs

35  
docs citations

35  
times ranked

947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insulin and $\hat{\alpha}$ -Tocopherol Enhance the Protective Effect of Each Other on Brain Cortical Neurons under Oxidative Stress Conditions and in Rat Two-Vessel Forebrain Ischemia/Reperfusion Injury. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11768.	1.8	8
2	Mitigating effect of paxilline against injury produced by Cd <sup>2+</sup> in rat pheochromocytoma PC12 and ascites hepatoma AS-30D cells. <i>Ecotoxicology and Environmental Safety</i> , 2020, 196, 110519.	2.9	1
3	The Protective Effect of Insulin on Rat Cortical Neurons in Oxidative Stress and Its Dependence on the Modulation of Akt, GSK-3beta, ERK1/2, and AMPK Activities. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3702.	1.8	21
4	Gangliosides GM1 and GD1a normalize respiratory rates of rat brain mitochondria reduced by tert-butyl hydroperoxide. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2017, 53, 200-207.	0.2	4
5	$\hat{\alpha}$ -Tocopherol at Nanomolar Concentration Protects Cortical Neurons against Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2017, 18, 216.	1.8	27
6	Alpha-tocopherol prevents a dramatic oxidative stress-induced decline of the Bcl-2 concentration in cortical neurons. <i>Neurochemical Journal</i> , 2016, 10, 226-231.	0.2	2
7	Prevention by alpha-tocopherol of protein kinase B (Akt) inactivation in neurons of rat brain cortex, induced by oxidative stress, contributes to its protective effect. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2016, 52, 173-176.	0.2	0
8	Alpha-tocopherol prevents long-term activation of ERK1/2 in neurons of the brain cortex under conditions of oxidative stress. <i>Neurochemical Journal</i> , 2015, 9, 319-322.	0.2	1
9	GM1 and GD1a gangliosides modulate toxic and inflammatory effects of E. coli lipopolysaccharide by preventing TLR4 translocation into lipid rafts. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 239-247.	1.2	35
10	Role of Protein Kinase Akt Activation in Protective Effect of Ganglioside GM1 on PC12 Cells Exposed to H <sub>2</sub> O <sub>2</sub> . <i>Bulletin of Experimental Biology and Medicine</i> , 2015, 159, 610-613.	0.3	1
11	Protective effect of GM1 ganglioside against toxic effect of glutamate on cerebellar granule cells. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2014, 50, 456-459.	0.2	3
12	GM1 Ganglioside Activates ERK1/2 and Akt Downstream of Trk Tyrosine Kinase and Protects PC12 Cells Against Hydrogen Peroxide Toxicity. <i>Neurochemical Research</i> , 2014, 39, 2262-2275.	1.6	25
13	Effect of ganglioside GM1 on mitochondrial respiration and viability of PC12 cells under oxidative stress. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2014, 50, 174-176.	0.2	4
14	Metabolic effects of ganglioside GM1 on PC12 cells in oxidative stress depend on modulation of activity of tyrosine kinase Trk of receptors. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2013, 49, 25-35.	0.2	2
15	$\hat{\alpha}$ -Tocopherol Prevents ERK1/2 Activation in PC12 Cells under Conditions of Oxidative Stress and Its Contribution to the Protective Effect. <i>Bulletin of Experimental Biology and Medicine</i> , 2013, 155, 44-47.	0.3	4
16	$\hat{\alpha}$ -Tocopherol at Nanomolar Concentration Protects PC12 Cells from Hydrogen Peroxide-Induced Death and Modulates Protein Kinase Activities. <i>International Journal of Molecular Sciences</i> , 2012, 13, 11543-11568.	1.8	17
17	The protective effect of GD1a ganglioside and inhibitors of nitric oxide synthase after the application of bacterial lipopolysaccharide to PC12 cells. <i>Neurochemical Journal</i> , 2012, 6, 278-283.	0.2	0
18	Mitochondrial Electron Transport Chain in Heavy Metal-Induced Neurotoxicity: Effects of Cadmium, Mercury, and Copper. <i>Scientific World Journal</i> , The, 2012, 2012, 1-14.	0.8	116

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19	Antiapoptotic effect of alpha-tocopherol at micro- and nanomolar concentrations on cells of neuronal line PC12 according to data of flow cytometry. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2011, 47, 242-250.	0.2	0
20	Dependence of protective effect of $\alpha$ -tocopherol on its concentration and time of action on pc12 cells under conditions of oxidative stress. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2011, 47, 438-447.	0.2	2
21	Alpha-tocopherol at nanomolar concentrations increases the viability of PC12 cells under oxidative stress conditions. The effects of modulation of signaling systems. <i>Neurochemical Journal</i> , 2011, 5, 183-190.	0.2	2
22	Protective and Antioxidative Effects of GM1 Ganglioside in PC12 Cells Exposed to Hydrogen Peroxide are Mediated by Trk Tyrosine Kinase. <i>Neurochemical Research</i> , 2010, 35, 85-98.	1.6	14
23	Role of tyrosine kinase of Trk-Receptors in realization of antioxidant effect of ganglioside GM1 in PC12 cells. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2009, 45, 562-570.	0.2	2
24	A Decrease of neuroprotective effect of ganglioside GM1 on PC12 cells under conditions of oxidative stress in the presence of inhibitor of tyrosine kinase of Trk-receptors. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2008, 44, 440-449.	0.2	0
25	Effects of oxidative stress inhibitors, neurotoxins, and ganglioside GM1 on Na <sup>+</sup> ,K <sup>+</sup> -ATPase activity in PC12 Cells and brain synaptosomes. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2007, 43, 174-182.	0.2	0
26	Neuroprotective Effect of Ganglioside GM1 on the Cytotoxic Action of Hydrogen Peroxide and Amyloid $\beta$ -peptide in PC12 cells. <i>Neurochemical Research</i> , 2007, 32, 1302-1313.	1.6	43
27	Stimulation by Gangliosides of Viability of Rat Brain Neurons and of Neuronal PC12 Cell Line under Conditions of Oxidative Stress. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2005, 41, 415-423.	0.2	3
28	Oxidative Stress Following Traumatic Brain Injury in Rats. <i>Journal of Neurochemistry</i> , 2002, 75, 2178-2189.	2.1	214
29	Catalase in astroglia-rich primary cultures from rat brain: immunocytochemical localization and inactivation during the disposal of hydrogen peroxide. <i>Neuroscience Letters</i> , 2001, 297, 129-132.	1.0	30
30	The use of antioxidants to prevent glutamate-induced derangement of calcium ion metabolism in rat cerebral cortex synaptosomes. <i>Neuroscience and Behavioral Physiology</i> , 2000, 30, 535-541.	0.2	8
31	The difference in the effect of glutamate and NO synthase inhibitor on free calcium concentration and Na <sup>+</sup> , K <sup>+</sup> -ATPase activity in synaptosomes from various brain regions. <i>Neurochemical Research</i> , 1999, 24, 1101-1106.	1.6	24
32	Inhibition of glutamate-induced intensification of free radical reactions by gangliosides: possible role in their protective effect in rat cerebellar granule cells and brain synaptosomes. <i>Neurochemical Research</i> , 1998, 23, 945-952.	1.6	76
33	Palmitoylcarnitine, and important component of the repair system in the synaptosome membrane, in oxidative stress. <i>Bulletin of Experimental Biology and Medicine</i> , 1997, 123, 565-567.	0.3	0