

Irena C Lavrnja

List of Publications by Year in descending order

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65
papers

1,154
citations

361413

20
h-index

434195

31
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65
docs citations

65
times ranked

1483
citing authors

#	ARTICLE	IF	CITATIONS
1	Animal models of multiple sclerosis: Focus on experimental autoimmune encephalomyelitis. <i>Journal of Neuroscience Research</i> , 2018, 96, 1021-1042.	2.9	124
2	Multiple Sclerosis and Neuroinflammation: The Overview of Current and Prospective Therapies. <i>Current Pharmaceutical Design</i> , 2017, 23, 693-730.	1.9	91
3	Benfotiamine Attenuates Inflammatory Response in LPS Stimulated BV-2 Microglia. <i>PLoS ONE</i> , 2015, 10, e0118372.	2.5	72
4	Up-regulation of ectonucleotidase activity after cortical stab injury in rats. <i>Cell Biology International</i> , 2006, 30, 541-546.	3.0	61
5	Expression profiles of cholesterol metabolism-related genes are altered during development of experimental autoimmune encephalomyelitis in the rat spinal cord. <i>Scientific Reports</i> , 2017, 7, 2702.	3.3	38
6	Time-course changes in ectonucleotidase activities during experimental autoimmune encephalomyelitis. <i>Neurochemistry International</i> , 2009, 55, 193-198.	3.8	36
7	Expression of a Second Ecto-5 α -Nucleotidase Variant Besides the Usual Protein in Symptomatic Phase of Experimental Autoimmune Encephalomyelitis. <i>Journal of Molecular Neuroscience</i> , 2015, 55, 898-911.	2.3	36
8	Application of Fractal and Grey Level Co-Occurrence Matrix Analysis in Evaluation of Brain Corpus Callosum and Cingulum Architecture. <i>Microscopy and Microanalysis</i> , 2014, 20, 1373-1381.	0.4	34
9	Dynamic changes in the expression pattern of ecto-5 α -nucleotidase in the rat model of cortical stab injury. <i>Journal of Neuroscience Research</i> , 2011, 89, 862-873.	2.9	33
10	Discriminatory ability of fractal and grey level co-occurrence matrix methods in structural analysis of hippocampus layers. <i>Journal of Theoretical Biology</i> , 2015, 370, 151-156.	1.7	32
11	Extracellular ATP Selectively Upregulates Ecto-Nucleoside Triphosphate Diphosphohydrolase 2 and Ecto-5 α -Nucleotidase by Rat Cortical Astrocytes In Vitro. <i>Journal of Molecular Neuroscience</i> , 2015, 57, 452-462.	2.3	32
12	The Effect of Ribavirin on Reactive Astrogliosis in Experimental Autoimmune Encephalomyelitis. <i>Journal of Pharmacological Sciences</i> , 2012, 119, 221-232.	2.5	28
13	Anti-encephalitogenic effects of ethyl pyruvate are reflected in the central nervous system and the gut. <i>Biomedicine and Pharmacotherapy</i> , 2017, 96, 78-85.	5.6	27
14	Down-regulation of NTPDase2 and ADP-sensitive P2 Purinoceptors Correlate with Severity of Symptoms during Experimental Autoimmune Encephalomyelitis. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 333.	3.7	26
15	Immunohistological Determination of Ecto-nucleoside Triphosphate Diphosphohydrolase1 (NTPDase1) and 5 α -nucleotidase in Rat Hippocampus Reveals Overlapping Distribution. <i>Cellular and Molecular Neurobiology</i> , 2007, 27, 731-743.	3.3	25
16	Brain injury induces cholesterol 24-hydroxylase (Cyp46) expression in glial cells in a time-dependent manner. <i>Histochemistry and Cell Biology</i> , 2010, 134, 159-169.	1.7	25
17	Repetitive Hyperbaric Oxygenation Attenuates Reactive Astrogliosis and Suppresses Expression of Inflammatory Mediators in the Rat Model of Brain Injury. <i>Mediators of Inflammation</i> , 2015, 2015, 1-17.	3.0	25
18	Ribavirin ameliorates experimental autoimmune encephalomyelitis in rats and modulates cytokine production. <i>International Immunopharmacology</i> , 2008, 8, 1282-1290.	3.8	24

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19	Benfotiamine upregulates antioxidative system in activated BV-2 microglia cells. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 351.	3.7	24
20	Extracellular ATP induces graded reactive response of astrocytes and strengthens their antioxidative defense in vitro. <i>Journal of Neuroscience Research</i> , 2017, 95, 1053-1066.	2.9	24
21	Hyperbaric oxygenation improves locomotor ability by enhancing neuroplastic responses after cortical ablation in rats. <i>Brain Injury</i> , 2012, 26, 1273-1284.	1.2	21
22	Early Temporal Changes in Ecto-Nucleotidase Activity after Cortical Stab Injury in Rat. <i>Neurochemical Research</i> , 2008, 33, 873-879.	3.3	19
23	Low-Dose Dexamethasone Treatment Promotes the Pro-Survival Signalling Pathway in the Adult Rat Prefrontal Cortex. <i>Journal of Neuroendocrinology</i> , 2013, 25, 605-616.	2.6	19
24	Induction of NTPDase1/CD39 by Reactive Microglia and Macrophages Is Associated With the Functional State During EAE. <i>Frontiers in Neuroscience</i> , 2019, 13, 410.	2.8	19
25	Voltage Gated Potassium Channel Kv1.3 Is Upregulated on Activated Astrocytes in Experimental Autoimmune Encephalomyelitis. <i>Neurochemical Research</i> , 2018, 43, 1020-1034.	3.3	18
26	Brain Injury Alters Ectonucleotidase Activities and Adenine Nucleotide Levels in Rat Serum / Povreda Mozga Menja Ektonukleotidazne Aktivnosti I Nivo Adeninskih Nukleotida U Serumu Pacova. <i>Journal of Medical Biochemistry</i> , 2015, 34, 215-222.	1.7	16
27	Immunoglobulins G from Sera of Amyotrophic Lateral Sclerosis Patients Induce Oxidative Stress and Upregulation of Antioxidative System in BV-2 Microglial Cell Line. <i>Frontiers in Immunology</i> , 2017, 8, 1619.	4.8	15
28	Theta burst stimulation influence the expression of BDNF in the spinal cord on the experimental autoimmune encephalomyelitis. <i>Folia Neuropathologica</i> , 2019, 57, 129-145.	1.2	15
29	Hyperbaric oxygenation alters temporal expression pattern of superoxide dismutase 2 after cortical stab injury in rats. <i>Croatian Medical Journal</i> , 2012, 53, 586-597.	0.7	14
30	Downregulation of Glial Scarring after Brain Injury: The Effect of Purine Nucleoside Analogue Ribavirin. <i>Annals of the New York Academy of Sciences</i> , 2005, 1048, 296-310.	3.8	13
31	The cortical stab injury induces beading of fibers expressing ecto-nucleoside triphosphate diphosphohydrolase 3. <i>Neuroscience</i> , 2010, 170, 107-116.	2.3	13
32	Agmatine protection against chlorpromazine-induced forebrain cortex injury in rats. <i>Journal of Veterinary Science</i> , 2016, 17, 53.	1.3	12
33	The Function of the Hypothalamic-Pituitary-Adrenal Axis During Experimental Autoimmune Encephalomyelitis: Involvement of Oxidative Stress Mediators. <i>Frontiers in Neuroscience</i> , 2021, 15, 649485.	2.8	12
34	Immunolocalization of ecto-nucleotide pyrophosphatase/phosphodiesterase 1 (NPP1) in the rat forebrain. <i>Brain Research</i> , 2006, 1120, 54-63.	2.2	11
35	Biochemical characterization of soluble nucleotide pyrophosphatase/phosphodiesterase activity in rat serum. <i>Molecular and Cellular Biochemistry</i> , 2010, 339, 99-106.	3.1	11
36	Expression of ecto-nucleoside triphosphate diphosphohydrolase3 (NTPDase3) in the female rat brain during postnatal development. <i>Journal of Chemical Neuroanatomy</i> , 2016, 77, 10-18.	2.1	10

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37	Effects of agmatine on chlorpromazine toxicity in the liver of Wistar rats: the possible role of oxidant/antioxidant imbalance. <i>Experimental Animals</i> , 2017, 66, 17-27.	1.1	9
38	Agmatine Mitigates Inflammation-Related Oxidative Stress in BV-2 Cells by Inducing a Pre-Adaptive Response. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3561.	4.1	9
39	Therapeutic effects of combined treatment with ribavirin and tiazofurin on experimental autoimmune encephalomyelitis development: Clinical and histopathological evaluation. <i>Journal of the Neurological Sciences</i> , 2008, 267, 76-85.	0.6	8
40	Ribavirin shows immunomodulatory effects on activated microglia. <i>Immunopharmacology and Immunotoxicology</i> , 2014, 36, 433-441.	2.4	7
41	Astrocyte phenotypes: Emphasis on potential markers in neuroinflammation. <i>Histology and Histopathology</i> , 2021, 36, 267-290.	0.7	7
42	Sensorimotor cortex ablation induces time-dependent response of ACTH cells in adult rats: Behavioral, immunohistomorphometric and hormonal study. <i>Physiology and Behavior</i> , 2014, 125, 30-37.	2.1	6
43	The Potassium Channel Kv1.5 Expression Alters During Experimental Autoimmune Encephalomyelitis. <i>Neurochemical Research</i> , 2019, 44, 2733-2745.	3.3	6
44	The sex-specific patterns of changes in hypothalamic-pituitary-gonadal axis during experimental autoimmune encephalomyelitis. <i>Brain, Behavior, and Immunity</i> , 2020, 89, 233-244.	4.1	6
45	Cortical ablation induces time-dependent changes in rat pituitary somatotrophs and upregulates growth hormone receptor expression in the injured cortex. <i>Journal of Neuroscience Research</i> , 2014, 92, 1338-1349.	2.9	5
46	Testicular steroidogenesis is suppressed during experimental autoimmune encephalomyelitis in rats. <i>Scientific Reports</i> , 2021, 11, 8996.	3.3	5
47	Low-Dose Ribavirin Treatments Attenuate Neuroinflammatory Activation of BV-2 Cells by Interfering with Inducible Nitric Oxide Synthase. <i>Analytical Cellular Pathology</i> , 2015, 2015, 1-8.	1.4	4
48	Cell death of spinal cord ED1+cells in a rat model of multiple sclerosis. <i>PeerJ</i> , 2015, 3, e1189.	2.0	4
49	Combination of Nucleoside Analogues Tiazofurin and Ribavirin Downregulates Experimental Autoimmune Encephalomyelitis. <i>Annals of the New York Academy of Sciences</i> , 2005, 1048, 392-395.	3.8	3
50	Purine nucleoside analogs in the therapy of cancer and neuroinflammation. <i>Molecular Inhibitors in Targeted Therapy</i> , 2015, 1, .	0.0	3
51	Antenatal Dexamethasone Treatment Induces Sex-dependent Upregulation of NTPDase1/CD39 and Ecto-5' nucleotidase/CD73 in the Rat Fetal Brain. <i>Cellular and Molecular Neurobiology</i> , 2022, 42, 1965-1981.	3.3	3
52	Effects of agmatine on chlorpromazine-induced neuronal injury in rat. <i>Acta Veterinaria Brno</i> , 2018, 87, 145-153.	0.5	3
53	Benfotiamine Reduces Dendritic Cell Inflammatory Potency. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2021, 21, 1344-1351.	1.2	2
54	Combined treatment with ribavirin and tiazofurin attenuates response of glial cells in experimental autoimmune encephalomyelitis. <i>Archives of Biological Sciences</i> , 2012, 64, 843-850.	0.5	2

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55	Tiazofurin modulates lipopolysaccharide-activated microglia in vitro. Archives of Biological Sciences, 2014, 66, 1633-1640.	0.5	2
56	Expression of Ectonucleoside Triphosphate Diphosphohydrolase 2 (NTPDase2) Is Negatively Regulated Under Neuroinflammatory Conditions <i>In Vivo</i> and <i>In Vitro</i> . ASN Neuro, 2022, 14, 175909142211020.	2.7	2
57	Effect of stab injury in the rat cerebral cortex on temporal pattern of expression of neuronal cytoskeletal proteins: An immunohistochemical study. Acta Histochemica, 2015, 117, 155-162.	1.8	1
58	Brain cortical injury induces changes in peripheral lymphocyte ectonucleotidase activities. Archives of Biological Sciences, 2013, 65, 33-42.	0.5	1
59	Therapeutic effect of nucleoside analogs on experimental autoimmune encephalomyelitis in dark agouti rats. Archives of Biological Sciences, 2006, 58, 13-20.	0.5	1
60	Protective Effects of Agmatine against Chlorpromazine- Induced Toxicity in the Liver of Wistar Rats. Acta Facultatis Medicae Naissensis, 2016, 33, 13-22.	0.4	0
61	Agmatine reduces chlorpromazine prooxidant effects in rat hippocampus and striatum. Archives of Biological Sciences, 2021, 73, 353-359.	0.5	0
62	Pattern of chondroitin sulfate proteoglycan expression after ablation of the sensorimotor cortex of the neonatal and adult rat brain. Archives of Biological Sciences, 2008, 60, 581-591.	0.5	0
63	Agmatine prevents acute chlorpromazine-induced neurotoxicity in rats. Arhiv Za Farmaciju, 2015, 65, 329-349.	0.5	0
64	Ribavirin Against Viral, Neoplastic and Inflammatory Diseases: Focus on Mechanisms of Action. Frontiers in Medicinal Chemistry, 2018, , 113-175.	0.2	0
65	Ribavirin administration alters ectonucleotidase activities in experimental autoimmune encephalomyelitis. General Physiology and Biophysics, 2009, 28 Spec No, 69-76.	0.9	0