

Vesna Jevtovic-Todorovic

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

3,806
citations

236925

25
h-index

123424

61
g-index

102
all docs

102
docs citations

102
times ranked

2808
citing authors

#	ARTICLE	IF	CITATIONS
1	Early Exposure to Common Anesthetic Agents Causes Widespread Neurodegeneration in the Developing Rat Brain and Persistent Learning Deficits. <i>Journal of Neuroscience</i> , 2003, 23, 876-882.	3.6	1,832
2	General anesthesia activates BDNF-dependent neuroapoptosis in the developing rat brain. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2006, 11, 1603-1615.	4.9	211
3	Melatonin reduces the severity of anesthesia-induced apoptotic neurodegeneration in the developing rat brain. <i>Neurobiology of Disease</i> , 2006, 21, 522-530.	4.4	173
4	General Anesthesia Causes Long-term Impairment of Mitochondrial Morphogenesis and Synaptic Transmission in Developing Rat Brain. <i>Anesthesiology</i> , 2011, 115, 992-1002.	2.5	164
5	Exposure of Developing Brain to General Anesthesia. <i>Anesthesiology</i> , 2018, 128, 832-839.	2.5	95
6	5 β -Reduced Neuroactive Steroids Are Novel Voltage-Dependent Blockers of T-Type Ca ²⁺ Channels in Rat Sensory Neurons in Vitro and Potent Peripheral Analgesics in Vivo. <i>Molecular Pharmacology</i> , 2004, 66, 1223-1235.	2.3	80
7	General Anesthetics and Neurotoxicity. <i>Anesthesiology Clinics</i> , 2016, 34, 439-451.	1.4	72
8	The anesthetics nitrous oxide and ketamine are more neurotoxic to old than to young rat brain. <i>Neurobiology of Aging</i> , 2005, 26, 947-956.	3.1	62
9	General Anesthesia Causes Epigenetic Histone Modulation of c-Fos and Brain-derived Neurotrophic Factor, Target Genes Important for Neuronal Development in the Immature Rat Hippocampus. <i>Anesthesiology</i> , 2016, 124, 1311-1327.	2.5	62
10	The role of peripheral T-type calcium channels in pain transmission. <i>Cell Calcium</i> , 2006, 40, 197-203.	2.4	61
11	Anesthesia and the developing brain. <i>Current Opinion in Anaesthesiology</i> , 2011, 24, 395-399.	2.0	52
12	Ca _v 3.2 T-Type Calcium Channels in Peripheral Sensory Neurons Are Important for Mibefradil-Induced Reversal of Hyperalgesia and Allodynia in Rats with Painful Diabetic Neuropathy. <i>PLoS ONE</i> , 2014, 9, e91467.	2.5	50
13	Hematopoietic pannexin 1 function is critical for neuropathic pain. <i>Scientific Reports</i> , 2017, 7, 42550.	3.3	49
14	Selective inhibition of Ca _v 3.2 channels reverses hyperexcitability of peripheral nociceptors and alleviates postsurgical pain. <i>Science Signaling</i> , 2018, 11, .	3.6	48
15	Developmental Synaptogenesis and General Anesthesia: A Kiss of Death?. <i>Current Pharmaceutical Design</i> , 2012, 18, 6225-6231.	1.9	37
16	General Anesthetics and the Developing Brain. <i>Journal of Neurosurgical Anesthesiology</i> , 2005, 17, 204-206.	1.2	35
17	Anesthesia-Induced Developmental Neurodegeneration: The Role of Neuronal Organelles. <i>Frontiers in Neurology</i> , 2012, 3, 141.	2.4	34
18	Functional Implications of an Early Exposure to General Anesthesia: Are We Changing the Behavior of Our Children?. <i>Molecular Neurobiology</i> , 2013, 48, 288-293.	4.0	32

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19	The Fas Ligand/Fas Death Receptor Pathways Contribute to Propofol-Induced Apoptosis and Neuroinflammation in the Brain of Neonatal Rats. <i>Neurotoxicity Research</i> , 2016, 30, 434-452.	2.7	32
20	Sex differences in neurodevelopmental abnormalities caused by early-life anaesthesia exposure: a narrative review. <i>British Journal of Anaesthesia</i> , 2020, 124, e81-e91.	3.4	31
21	Hyperexcitability of Rat Thalamocortical Networks after Exposure to General Anesthesia during Brain Development. <i>Journal of Neuroscience</i> , 2015, 35, 1481-1492.	3.6	30
22	Early exposure to general anesthesia impairs social and emotional development in rats. <i>Molecular Neurobiology</i> , 2020, 57, 41-50.	4.0	30
23	A holistic approach to anesthesia-induced neurotoxicity and its implications for future mechanistic studies. <i>Neurotoxicology and Teratology</i> , 2017, 60, 24-32.	2.4	29
24	The role of T-type calcium channels in the subiculum: to burst or not to burst?. <i>Journal of Physiology</i> , 2017, 595, 6327-6348.	2.9	29
25	Neonatal Propofol Anesthesia Changes Expression of Synaptic Plasticity Proteins and Increases Stereotypic and Anxiolytic Behavior in Adult Rats. <i>Neurotoxicity Research</i> , 2017, 32, 247-263.	2.7	28
26	Nanoparticle fullerol alleviates radiculopathy via NLRP3 inflammasome and neuropeptides. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2049-2059.	3.3	27
27	Early Exposure to Ketamine Impairs Axonal Pruning in Developing Mouse Hippocampus. <i>Molecular Neurobiology</i> , 2018, 55, 164-172.	4.0	27
28	Sevoflurane Exposure Results in Sex-Specific Transgenerational Upregulation of Target IEGs in the Subiculum. <i>Molecular Neurobiology</i> , 2020, 57, 11-22.	4.0	26
29	Standards for preclinical research and publications in developmental anaesthetic neurotoxicity: expert opinion statement from the SmartTots preclinical working group. <i>British Journal of Anaesthesia</i> , 2020, 124, 585-593.	3.4	26
30	Inhibition of CaV3.2 T-type calcium channels in peripheral sensory neurons contributes to analgesic properties of epipregnanolone. <i>Psychopharmacology</i> , 2014, 231, 3503-3515.	3.1	25
31	Neurosteroids in Pain Management: A New Perspective on an Old Player. <i>Frontiers in Pharmacology</i> , 2018, 9, 1127.	3.5	24
32	Are neuroactive steroids promising therapeutic agents in the management of acute and chronic pain?. <i>Psychoneuroendocrinology</i> , 2009, 34, S178-S185.	2.7	23
33	Neuroactive steroids alphaxalone and CDNC24 are effective hypnotics and potentiators of GABAA currents, but are not neurotoxic to the developing rat brain. <i>British Journal of Anaesthesia</i> , 2020, 124, 603-613.	3.4	23
34	Novel neuroactive steroid with hypnotic and T-type calcium channel blocking properties exerts effective analgesia in a rodent model of post-surgical pain. <i>British Journal of Pharmacology</i> , 2020, 177, 1735-1753.	5.4	18
35	Neonatal propofol anesthesia modifies activity-dependent processes and induces transient hyperlocomotor response to amphetamine during adolescence in rats. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 266-277.	1.6	17
36	Using animal models to evaluate the functional consequences of anesthesia during early neurodevelopment. <i>Neurobiology of Learning and Memory</i> , 2019, 165, 106834.	1.9	17

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37	Histone Deacetylase Inhibitor Entinostat (MS-275) Restores Anesthesia-induced Alteration of Inhibitory Synaptic Transmission in the Developing Rat Hippocampus. <i>Molecular Neurobiology</i> , 2018, 55, 222-228.	4.0	16
38	The T-type calcium channel isoform Cav3.1 is a target for the hypnotic effect of the anaesthetic neurosteroid (3 β ,5 β ,17 β)-3-hydroxyandrostane-17-carbonitrile. <i>British Journal of Anaesthesia</i> , 2021, 126, 245-255.	3.4	16
39	Differential effects of the novel neurosteroid hypnotic (3 β ,5 β ,17 β)-3-hydroxyandrostane-17-carbonitrile on electroencephalogram activity in male and female rats. <i>British Journal of Anaesthesia</i> , 2021, 127, 435-446.	3.4	14
40	CaV3.1 isoform of T-type calcium channels supports excitability of rat and mouse ventral tegmental area neurons. <i>Neuropharmacology</i> , 2018, 135, 343-354.	4.1	13
41	General Anesthesia and Young Brain: What is New?. <i>Journal of Neurosurgical Anesthesiology</i> , 2018, 30, 217-222.	1.2	12
42	Novel neurosteroid hypnotic blocks T-type calcium channel-dependent rebound burst firing and suppresses long-term potentiation in the rat subiculum. <i>British Journal of Anaesthesia</i> , 2019, 122, 643-651.	3.4	12
43	Do We Have Viable Protective Strategies against Anesthesia-Induced Developmental Neurotoxicity?. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1128.	4.1	11
44	Anesthesia and Cancer, Friend or Foe? A Narrative Review. <i>Frontiers in Oncology</i> , 2021, 11, 803266.	2.8	11
45	Neonatal Ketamine Alters High-Frequency Oscillations and Synaptic Plasticity in the Subiculum But Does not Affect Sleep Macrostructure in Adolescent Rats. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 26.	2.5	9
46	The Role of Free Oxygen Radicals in Lasting Hyperexcitability of Rat Subicular Neurons After Exposure to General Anesthesia During Brain Development. <i>Molecular Neurobiology</i> , 2020, 57, 208-216.	4.0	8
47	Anesthetics and Cognitive Impairments in Developing Children. <i>JAMA Pediatrics</i> , 2017, 171, 1135.	6.2	7
48	Neonatal anesthesia and dysregulation of the epigenome. <i>Biology of Reproduction</i> , 2021, 105, 720-734.	2.7	7
49	Synthetic neuroactive steroids as new sedatives and anaesthetics: Back to the future. <i>Journal of Neuroendocrinology</i> , 2022, 34, e13086.	2.6	7
50	Testosterone: much more for the brain than a sex hormone. <i>British Journal of Anaesthesia</i> , 2022, , .	3.4	7
51	Nonapoptotic caspases in neural development and in anesthesia-induced neurotoxicity. <i>Trends in Neurosciences</i> , 2022, 45, 446-458.	8.6	7
52	Chronic Exposure to Nitrous Oxide Increases [³ H]MK801 Binding in the Cerebral Cortex, but Not in the Hippocampus of Adult Mice. <i>Annals of the New York Academy of Sciences</i> , 2005, 1053, 301-308.	3.8	6
53	Neuron-Glia Crosstalk Plays a Major Role in the Neurotoxic Effects of Ketamine via Extracellular Vesicles. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 691648.	3.7	6
54	Preemptive Analgesic Effect of Intrathecal Applications of Neuroactive Steroids in a Rodent Model of Post-Surgical Pain: Evidence for the Role of T-Type Calcium Channels. <i>Cells</i> , 2020, 9, 2674.	4.1	5

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55	Developing brain and general anesthesia -- is there a cause for concern?. F1000 Medicine Reports, 2010, 2, 68.	2.9	5
56	Detrimental effects of general anaesthesia on young primates: are we closer to understanding the link?. British Journal of Anaesthesia, 2021, 126, 575-577.	3.4	4
57	General Anesthesia and the Young Brain: The Importance of Novel Strategies with Alternate Mechanisms of Action. International Journal of Molecular Sciences, 2022, 23, 1889.	4.1	3
58	Introduction to the special issue "Developmental neurotoxicity associated with pediatric general anesthesia: Preclinical findings". Neurotoxicology and Teratology, 2017, 60, 1.	2.4	2
59	Pharmacological Antagonism of T-Type Calcium Channels Constrains Rebound Burst Firing in Two Distinct Subpopulations of GABA Neurons in the Rat Ventral Tegmental Area: Implications for α -Lipoic Acid. Frontiers in Pharmacology, 2019, 10, 1402.	3.5	2
60	Good Gas, Bad Gas. Anesthesia and Analgesia, 2014, 118, 1160-1162.	2.2	1
61	Neonatal Isoflurane Does Not Affect Sleep Architecture and Minimally Alters Neuronal Beta Oscillations in Adolescent Rats. Frontiers in Behavioral Neuroscience, 2021, 15, 703859.	2.0	1
62	Beyond Anesthesia Apoptosis. Anesthesiology, 2020, 133, 495-496.	2.5	1
63	Sex hormones and the young brain: are we ready to embrace neuroprotective strategies?. British Journal of Anaesthesia, 2021, , .	3.4	1
64	Corrigendum to "Potential mechanism of cell death in the developing rat brain induced by propofol anesthesia". International Journal of Developmental Neuroscience 27(3) 279-287 (2009). International Journal of Developmental Neuroscience, 2010, 28, 225-225.	1.6	0