

Rahul Agrawal

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,735
citations

304743

22
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

2861
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic syndrome™ in the brain: deficiency in omega-3 fatty acid exacerbates dysfunctions in insulin receptor signalling and cognition. <i>Journal of Physiology</i> , 2012, 590, 2485-2499.	2.9	180
2	Omega-3 Fatty Acid Deficiency during Brain Maturation Reduces Neuronal and Behavioral Plasticity in Adulthood. <i>PLoS ONE</i> , 2011, 6, e28451.	2.5	148
3	A study of brain insulin receptors, AChE activity and oxidative stress in rat model of ICV STZ induced dementia. <i>Neuropharmacology</i> , 2009, 56, 779-787.	4.1	133
4	Effect of donepezil and tacrine on oxidative stress in intracerebral streptozotocin-induced model of dementia in mice. <i>European Journal of Pharmacology</i> , 2008, 581, 283-289.	3.5	131
5	Insulin receptor signaling in rat hippocampus: A study in STZ (ICV) induced memory deficit model. <i>European Neuropsychopharmacology</i> , 2011, 21, 261-273.	0.7	127
6	Effect of curcumin on brain insulin receptors and memory functions in STZ (ICV) induced dementia model of rat. <i>Pharmacological Research</i> , 2010, 61, 247-252.	7.1	113
7	Traumatic Brain Injury Induces Genome-Wide Transcriptomic, Methylopic, and Network Perturbations in Brain and Blood Predicting Neurological Disorders. <i>EBioMedicine</i> , 2017, 16, 184-194.	6.1	88
8	Cholinergic protection via $\alpha 7$ nicotinic acetylcholine receptors and PI3K-Akt pathway in LPS-induced neuroinflammation. <i>Neurochemistry International</i> , 2010, 56, 135-142.	3.8	84
9	Influence of LPS-induced neuroinflammation on acetylcholinesterase activity in rat brain. <i>Journal of Neuroimmunology</i> , 2008, 205, 51-56.	2.3	83
10	Effect of melatonin on neuroinflammation and acetylcholinesterase activity induced by LPS in rat brain. <i>European Journal of Pharmacology</i> , 2010, 640, 206-210.	3.5	79
11	Systems Nutrigenomics Reveals Brain Gene Networks Linking Metabolic and Brain Disorders. <i>EBioMedicine</i> , 2016, 7, 157-166.	6.1	59
12	Interactive actions of Bdnf methylation and cell metabolism for building neural resilience under the influence of diet. <i>Neurobiology of Disease</i> , 2015, 73, 307-318.	4.4	55
13	Flavonoid derivative 7,8-DHF attenuates TBI pathology via TrkB activation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 862-872.	3.8	52
14	Cholinergic influence on memory stages: A study on scopolamine amnesic mice. <i>Indian Journal of Pharmacology</i> , 2009, 41, 192.	0.7	50
15	Dietary fructose aggravates the pathobiology of traumatic brain injury by influencing energy homeostasis and plasticity. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 941-953.	4.3	49
16	Effect of insulin and melatonin on acetylcholinesterase activity in the brain of amnesic mice. <i>Behavioural Brain Research</i> , 2008, 189, 381-386.	2.2	41
17	Effect of anti-dementia drugs on LPS induced neuroinflammation in mice. <i>Life Sciences</i> , 2007, 80, 1977-1983.	4.3	40
18	Deterioration of plasticity and metabolic homeostasis in the brain of the UCD-T2DM rat model of naturally occurring type-2 diabetes. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 1313-1323.	3.8	39

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19	Inhibitory role of cholinergic system mediated via $\alpha 7$ nicotinic acetylcholine receptor in LPS-induced neuro-inflammation. <i>Innate Immunity</i> , 2010, 16, 3-13.	2.4	38
20	7,8-Dihydroxyflavone facilitates the action exercise to restore plasticity and functionality: Implications for early brain trauma recovery. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1204-1213.	3.8	38
21	Coupling energy homeostasis with a mechanism to support plasticity in brain trauma. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 535-546.	3.8	35
22	A comparative study on oxidative stress induced by LPS and rotenone in homogenates of rat brain regions. <i>Environmental Toxicology and Pharmacology</i> , 2009, 27, 219-224.	4.0	24
23	Vulnerability Imposed by Diet and Brain Trauma for Anxiety-Like Phenotype: Implications for Post-Traumatic Stress Disorders. <i>PLoS ONE</i> , 2013, 8, e57945.	2.5	23
24	Dietary Omega-3 Deficiency from Gestation Increases Spinal Cord Vulnerability to Traumatic Brain Injury-Induced Damage. <i>PLoS ONE</i> , 2012, 7, e52998.	2.5	17
25	TBI and sex: Crucial role of progesterone protecting the brain in an omega ³ deficient condition. <i>Experimental Neurology</i> , 2014, 253, 41-51.	4.1	7
26	Multi-Tissue Multi-Omics Nutrigenomics Indicates Context-Specific Effects of Docosahexaenoic Acid on Rat Brain. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000788.	3.3	2