Darrick T Balu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8859050/publications.pdf

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49 papers	3,047 citations	172207 29 h-index	205818 48 g-index
52 all docs	52 docs citations	52 times ranked	4125 citing authors

#	Article	IF	Citations
1	Adult hippocampal neurogenesis: Regulation, functional implications, and contribution to disease pathology. Neuroscience and Biobehavioral Reviews, 2009, 33, 232-252.	2.9	333
2	The NMDA Receptor and Schizophrenia. Advances in Pharmacology, 2016, 76, 351-382.	1.2	213
3	Multiple risk pathways for schizophrenia converge in serine racemase knockout mice, a mouse model of NMDA receptor hypofunction. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2400-9.	3.3	184
4	Differential regulation of central BDNF protein levels by antidepressant and non-antidepressant drug treatments. Brain Research, 2008, 1211, 37-43.	1.1	173
5	The NMDA receptor â€˜glycine modulatory siteâ€™ in schizophrenia: d-serine, glycine, and beyond. Current Opinion in Pharmacology, 2015, 20, 109-115.	1.7	173
6	The Rise and Fall of the d -Serine-Mediated Gliotransmission Hypothesis. Trends in Neurosciences, 2016, 39, 712-721.	4.2	157
7	Glutamatergic Synaptic Dysregulation in Schizophrenia: Therapeutic Implications. Handbook of Experimental Pharmacology, 2012, , 267-295.	0.9	149
8	Neuroplasticity signaling pathways linked to the pathophysiology of schizophrenia. Neuroscience and Biobehavioral Reviews, 2011, 35, 848-870.	2.9	147
9	MicroRNA-132 provides neuroprotection for tauopathies via multiple signaling pathways. Acta Neuropathologica, 2018, 136, 537-555.	3.9	120
10	d-Serine and Serine Racemase are Localized to Neurons in the Adult Mouse and Human Forebrain. Cellular and Molecular Neurobiology, 2014, 34, 419-435.	1.7	107
11	Serine racemase deletion disrupts memory for order and alters cortical dendritic morphology. Genes, Brain and Behavior, 2011, 10, 210-222.	1.1	103
12	Enhanced astrocytic d-serine underlies synaptic damage after traumatic brain injury. Journal of Clinical Investigation, 2017, 127, 3114-3125.	3.9	95
13	Akt1 deficiency in schizophrenia and impairment of hippocampal plasticity and function. Hippocampus, 2012, 22, 230-240.	0.9	84
14	The NMDA receptor co-agonists, d-serine and glycine, regulate neuronal dendritic architecture in the somatosensory cortex. Neurobiology of Disease, 2012, 45, 671-682.	2.1	81
15	Beyond the dopamine receptor: novel therapeutic targets for treating schizophrenia. Dialogues in Clinical Neuroscience, 2010, 12, 359-382.	1.8	62
16	An mGlu5-Positive Allosteric Modulator Rescues the Neuroplasticity Deficits in a Genetic Model of NMDA Receptor Hypofunction in Schizophrenia. Neuropsychopharmacology, 2016, 41, 2052-2061.	2.8	60
17	Enhanced Sensitivity of the MRL/MpJ Mouse to the Neuroplastic and Behavioral Effects of Chronic Antidepressant Treatments. Neuropsychopharmacology, 2009, 34, 1764-1773.	2.8	56
18	Neurotoxic astrocytes express the d-serine synthesizing enzyme, serine racemase, in Alzheimer's disease. Neurobiology of Disease, 2019, 130, 104511.	2.1	49

#	Article	IF	Citations
19	Depressive phenotypes evoked by experimental diabetes are reversed by insulin. Physiology and Behavior, 2012, 105, 702-708.	1.0	48
20	Flow cytometric analysis of BrdU incorporation as a high-throughput method for measuring adult neurogenesis in the mouse. Journal of Pharmacological and Toxicological Methods, 2009, 59, 100-107.	0.3	45
21	Neuronal d-serine regulates dendritic architecture in the somatosensory cortex. Neuroscience Letters, 2012, 517, 77-81.	1.0	44
22	Astroglial Versus Neuronal D-Serine: Check Your Controls!. Trends in Neurosciences, 2017, 40, 520-522.	4.2	44
23	Astrocytes in primary cultures express serine racemase, synthesize d -serine and acquire A1 reactive astrocyte features. Biochemical Pharmacology, 2018, 151, 245-251.	2.0	43
24	History of the Concept of Disconnectivity in Schizophrenia. Harvard Review of Psychiatry, 2016, 24, 80-86.	0.9	40
25	Chronic D-serine reverses arc expression and partially rescues dendritic abnormalities in a mouse model of NMDA receptor hypofunction. Neurochemistry International, 2014, 75, 76-78.	1.9	37
26	The Role of Serine Racemase in the Pathophysiology of Brain Disorders. Advances in Pharmacology, 2018, 82, 35-56.	1.2	36
27	d-Serine as the gatekeeper of NMDA receptor activity: implications for the pharmacologic management of anxiety disorders. Translational Psychiatry, 2020, 10, 184.	2.4	36
28	Fifty Years of Research on Schizophrenia: The Ascendance of the Glutamatergic Synapse. American Journal of Psychiatry, 2020, 177, 1119-1128.	4.0	34
29	d-Serine, the Shape-Shifting NMDA Receptor Co-agonist. Neurochemical Research, 2020, 45, 1344-1353.	1.6	33
30	Glutamate receptor composition of the post-synaptic density is altered in genetic mouse models of NMDA receptor hypo- and hyperfunction. Brain Research, 2011, 1392, 1-7.	1.1	32
31	Serine Racemase and D-serine in the Amygdala Are Dynamically Involved in Fear Learning. Biological Psychiatry, 2018, 83, 273-283.	0.7	32
32	DNA methylation landscape of the genes regulating D-serine and D-aspartate metabolism in post-mortem brain from controls and subjects with schizophrenia. Scientific Reports, 2018, 8, 10163.	1.6	29
33	Postsynaptic Serine Racemase Regulates NMDA Receptor Function. Journal of Neuroscience, 2020, 40, 9564-9575.	1.7	29
34	Neuronal serine racemase regulates extracellular d-serine levels in the adult mouse hippocampus. Journal of Neural Transmission, 2015, 122, 1099-1103.	1.4	25
35	Dysbindin-1 contributes to prefrontal cortical dendritic arbor pathology in schizophrenia. Schizophrenia Research, 2018, 201, 270-277.	1.1	17
36	Altered neural oscillations and behavior in a genetic mouse model of NMDA receptor hypofunction. Scientific Reports, 2021, 11, 9031.	1.6	15

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37	Subchronic pharmacological and chronic genetic NMDA receptor hypofunction differentially regulate the Akt signaling pathway and Arc expression in juvenile and adult mice. Schizophrenia Research, 2015, 162, 216-221.	1.1	13
38	Inhibition of glial Dâ€serine release rescues synaptic damage after brain injury. Glia, 2022, 70, 1133-1152.	2.5	13
39	Brain monoamines and antidepressant-like responses in MRL/MpJ versus C57BL/6J mice. Neuropharmacology, 2013, 67, 503-510.	2.0	9
40	Deletion of Dtnbp1 in mice impairs threat memory consolidation and is associated with enhanced inhibitory drive in the amygdala. Translational Psychiatry, 2019, 9, 132.	2.4	8
41	Enhanced sensitivity of the MRL/MpJ mouse to the neuroplastic and behavioral effects of acute and chronic antidepressant treatments.. Experimental and Clinical Psychopharmacology, 2010, 18, 71-77.	1.3	7
42	D-serine deficiency attenuates the behavioral and cellular effects induced by the hallucinogenic 5-HT2A receptor agonist DOI. Behavioural Brain Research, 2014, 259, 242-246.	1.2	7
43	Ca 2+ effects on glucose transport and fatty acid oxidation in L6 skeletal muscle cell cultures. Biochemistry and Biophysics Reports, 2016, 5, 365-373.	0.7	7
44	Serine Racemase Expression by Striatal Neurons. Cellular and Molecular Neurobiology, 2022, 42, 279-289.	1.7	7
45	Cognitive Deficits in Prematurely Born Adults Are Associated With Reduced Basal Forebrain Integrity. Biological Psychiatry, 2017, 82, e15-e16.	0.7	3
46	Factors regulating serine racemase and d-amino acid oxidase expression in the mouse striatum. Brain Research, 2021, 1751, 147202.	1.1	3
47	Forebrain expression of serine racemase during postnatal development. Neurochemistry International, 2021, 145, 104990.	1.9	3
48	Altered CREB Binding to Activity-Dependent Genes in Serine Racemase Deficient Mice, a Mouse Model of Schizophrenia. ACS Chemical Neuroscience, 2018, 9, 2205-2209.	1.7	2
49	Serine Racemase. , 2016, , 283-291.		0