

# Darrick T Balu

## List of Publications by Citations

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48  
papers

2,347  
citations

26  
h-index

48  
g-index

52  
ext. papers

2,778  
ext. citations

5.9  
avg, IF

5.6  
L-index

#	Paper	IF	Citations
48	Adult hippocampal neurogenesis: regulation, functional implications, and contribution to disease pathology. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2009</b> , 33, 232-52	9	289
47	Differential regulation of central BDNF protein levels by antidepressant and non-antidepressant drug treatments. <i>Brain Research</i> , <b>2008</b> , 1211, 37-43	3.7	157
46	Multiple risk pathways for schizophrenia converge in serine racemase knockout mice, a mouse model of NMDA receptor hypofunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E2400-9	11.5	149
45	The NMDA receptor glycine modulatory site in schizophrenia: D-serine, glycine, and beyond. <i>Current Opinion in Pharmacology</i> , <b>2015</b> , 20, 109-15	5.1	142
44	The NMDA Receptor and Schizophrenia: From Pathophysiology to Treatment. <i>Advances in Pharmacology</i> , <b>2016</b> , 76, 351-82	5.7	133
43	Glutamatergic synaptic dysregulation in schizophrenia: therapeutic implications. <i>Handbook of Experimental Pharmacology</i> , <b>2012</b> , 267-95	3.2	130
42	Neuroplasticity signaling pathways linked to the pathophysiology of schizophrenia. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2011</b> , 35, 848-70	9	123
41	The Rise and Fall of the d-Serine-Mediated Gliotransmission Hypothesis. <i>Trends in Neurosciences</i> , <b>2016</b> , 39, 712-721	13.3	110
40	Serine racemase deletion disrupts memory for order and alters cortical dendritic morphology. <i>Genes, Brain and Behavior</i> , <b>2011</b> , 10, 210-22	3.6	92
39	D-serine and serine racemase are localized to neurons in the adult mouse and human forebrain. <i>Cellular and Molecular Neurobiology</i> , <b>2014</b> , 34, 419-35	4.6	91
38	The NMDA receptor co-agonists, D-serine and glycine, regulate neuronal dendritic architecture in the somatosensory cortex. <i>Neurobiology of Disease</i> , <b>2012</b> , 45, 671-82	7.5	73
37	MicroRNA-132 provides neuroprotection for tauopathies via multiple signaling pathways. <i>Acta Neuropathologica</i> , <b>2018</b> , 136, 537-555	14.3	70
36	Akt1 deficiency in schizophrenia and impairment of hippocampal plasticity and function. <i>Hippocampus</i> , <b>2012</b> , 22, 230-40	3.5	64
35	Enhanced astrocytic d-serine underlies synaptic damage after traumatic brain injury. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 3114-3125	15.9	57
34	Enhanced sensitivity of the MRL/MpJ mouse to the neuroplastic and behavioral effects of chronic antidepressant treatments. <i>Neuropsychopharmacology</i> , <b>2009</b> , 34, 1764-73	8.7	55
33	Beyond the dopamine receptor: novel therapeutic targets for treating schizophrenia. <i>Dialogues in Clinical Neuroscience</i> , <b>2010</b> , 12, 359-82	5.7	53
32	An mGlu5-Positive Allosteric Modulator Rescues the Neuroplasticity Deficits in a Genetic Model of NMDA Receptor Hypofunction in Schizophrenia. <i>Neuropsychopharmacology</i> , <b>2016</b> , 41, 2052-61	8.7	47

31	Flow cytometric analysis of BrdU incorporation as a high-throughput method for measuring adult neurogenesis in the mouse. <i>Journal of Pharmacological and Toxicological Methods</i> , <b>2009</b> , 59, 100-7	1.7	42
30	Neuronal D-serine regulates dendritic architecture in the somatosensory cortex. <i>Neuroscience Letters</i> , <b>2012</b> , 517, 77-81	3.3	39
29	Depressive phenotypes evoked by experimental diabetes are reversed by insulin. <i>Physiology and Behavior</i> , <b>2012</b> , 105, 702-8	3.5	38
28	Astroglial Versus Neuronal D-Serine: Check Your Controls!. <i>Trends in Neurosciences</i> , <b>2017</b> , 40, 520-522	13.3	33
27	History of the Concept of Disconnectivity in Schizophrenia. <i>Harvard Review of Psychiatry</i> , <b>2016</b> , 24, 80-6	4.1	30
26	Chronic D-serine reverses arc expression and partially rescues dendritic abnormalities in a mouse model of NMDA receptor hypofunction. <i>Neurochemistry International</i> , <b>2014</b> , 75, 76-8	4.4	30
25	The Role of Serine Racemase in the Pathophysiology of Brain Disorders. <i>Advances in Pharmacology</i> , <b>2018</b> , 82, 35-56	5.7	30
24	Astrocytes in primary cultures express serine racemase, synthesize d-serine and acquire A1 reactive astrocyte features. <i>Biochemical Pharmacology</i> , <b>2018</b> , 151, 245-251	6	28
23	Glutamate receptor composition of the post-synaptic density is altered in genetic mouse models of NMDA receptor hypo- and hyperfunction. <i>Brain Research</i> , <b>2011</b> , 1392, 1-7	3.7	28
22	Neurotoxic astrocytes express the d-serine synthesizing enzyme, serine racemase, in Alzheimer's disease. <i>Neurobiology of Disease</i> , <b>2019</b> , 130, 104511	7.5	26
21	DNA methylation landscape of the genes regulating D-serine and D-aspartate metabolism in post-mortem brain from controls and subjects with schizophrenia. <i>Scientific Reports</i> , <b>2018</b> , 8, 10163	4.9	23
20	Neuronal serine racemase regulates extracellular D-serine levels in the adult mouse hippocampus. <i>Journal of Neural Transmission</i> , <b>2015</b> , 122, 1099-103	4.3	22
19	Serine Racemase and D-serine in the Amygdala Are Dynamically Involved in Fear Learning. <i>Biological Psychiatry</i> , <b>2018</b> , 83, 273-283	7.9	17
18	Postsynaptic Serine Racemase Regulates NMDA Receptor Function. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 9564-9575	6.6	14
17	Fifty Years of Research on Schizophrenia: The Ascendance of the Glutamatergic Synapse. <i>American Journal of Psychiatry</i> , <b>2020</b> , 177, 1119-1128	11.9	14
16	D-Serine as the gatekeeper of NMDA receptor activity: implications for the pharmacologic management of anxiety disorders. <i>Translational Psychiatry</i> , <b>2020</b> , 10, 184	8.6	13
15	D-Serine, the Shape-Shifting NMDA Receptor Co-agonist. <i>Neurochemical Research</i> , <b>2020</b> , 45, 1344-1353	4.6	13
14	Dysbindin-1 contributes to prefrontal cortical dendritic arbor pathology in schizophrenia. <i>Schizophrenia Research</i> , <b>2018</b> , 201, 270-277	3.6	11

13	Subchronic pharmacological and chronic genetic NMDA receptor hypofunction differentially regulate the Akt signaling pathway and Arc expression in juvenile and adult mice. <i>Schizophrenia Research</i> , <b>2015</b> , 162, 216-21	3.6	10
12	D-serine deficiency attenuates the behavioral and cellular effects induced by the hallucinogenic 5-HT(2A) receptor agonist DOI. <i>Behavioural Brain Research</i> , <b>2014</b> , 259, 242-6	3.4	7
11	Brain monoamines and antidepressant-like responses in MRL/MpJ versus C57BL/6J mice. <i>Neuropharmacology</i> , <b>2013</b> , 67, 503-10	5.5	7
10	Enhanced sensitivity of the MRL/MpJ mouse to the neuroplastic and behavioral effects of acute and chronic antidepressant treatments. <i>Experimental and Clinical Psychopharmacology</i> , <b>2010</b> , 18, 71-7	3.2	7
9	Ca effects on glucose transport and fatty acid oxidation in L6 skeletal muscle cell cultures. <i>Biochemistry and Biophysics Reports</i> , <b>2016</b> , 5, 365-373	2.2	6
8	Altered neural oscillations and behavior in a genetic mouse model of NMDA receptor hypofunction. <i>Scientific Reports</i> , <b>2021</b> , 11, 9031	4.9	6
7	Serine Racemase Expression by Striatal Neurons. <i>Cellular and Molecular Neurobiology</i> , <b>2020</b> , 1	4.6	5
6	Deletion of Dtnbp1 in mice impairs threat memory consolidation and is associated with enhanced inhibitory drive in the amygdala. <i>Translational Psychiatry</i> , <b>2019</b> , 9, 132	8.6	4
5	Cognitive Deficits in Prematurely Born Adults Are Associated With Reduced Basal Forebrain Integrity. <i>Biological Psychiatry</i> , <b>2017</b> , 82, e15-e16	7.9	2
4	Factors regulating serine racemase and d-amino acid oxidase expression in the mouse striatum. <i>Brain Research</i> , <b>2021</b> , 1751, 147202	3.7	2
3	Altered CREB Binding to Activity-Dependent Genes in Serine Racemase Deficient Mice, a Mouse Model of Schizophrenia. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 2205-2209	5.7	2
2	Forebrain expression of serine racemase during postnatal development. <i>Neurochemistry International</i> , <b>2021</b> , 145, 104990	4.4	1
1	Serine Racemase <b>2016</b> , 283-291		