Darrick T Balu

List of Publications by Year in Descending Order

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	Altered neural oscillations and behavior in a genetic mouse model of NMDA receptor hypofunction. *Scientific Reports*, **2021**, 11, 9031	4.9	6
47	Forebrain expression of serine racemase during postnatal development. *Neurochemistry International*, **2021**, 145, 104990	4.4	1
46	Factors regulating serine racemase and d-amino acid oxidase expression in the mouse striatum. *Brain Research*, **2021**, 1751, 147202	3.7	2
45	D-Serine as the gatekeeper of NMDA receptor activity: implications for the pharmacologic management of anxiety disorders. *Translational Psychiatry*, **2020**, 10, 184	8.6	13
44	D-Serine, the Shape-Shifting NMDA Receptor Co-agonist. *Neurochemical Research*, **2020**, 45, 1344-1353	4.6	13
43	Postsynaptic Serine Racemase Regulates NMDA Receptor Function. *Journal of Neuroscience*, **2020**, 40, 9564-9575	6.6	14
42	Serine Racemase Expression by Striatal Neurons. *Cellular and Molecular Neurobiology*, **2020**, 1	4.6	5
41	Fifty Years of Research on Schizophrenia: The Ascendance of the Glutamatergic Synapse. *American Journal of Psychiatry*, **2020**, 177, 1119-1128	11.9	14
40	Neurotoxic astrocytes express the d-serine synthesizing enzyme, serine racemase, in Alzheimer's disease. *Neurobiology of Disease*, **2019**, 130, 104511	7.5	26
39	Deletion of Dtnbp1 in mice impairs threat memory consolidation and is associated with enhanced inhibitory drive in the amygdala. *Translational Psychiatry*, **2019**, 9, 132	8.6	4
38	Astrocytes in primary cultures express serine racemase, synthesize d-serine and acquire A1 reactive astrocyte features. *Biochemical Pharmacology*, **2018**, 151, 245-251	6	28
37	Serine Racemase and D-serine in the Amygdala Are Dynamically Involved in Fear Learning. *Biological Psychiatry*, **2018**, 83, 273-283	7.9	17
36	MicroRNA-132 provides neuroprotection for tauopathies via multiple signaling pathways. *Acta Neuropathologica*, **2018**, 136, 537-555	14.3	70
35	Altered CREB Binding to Activity-Dependent Genes in Serine Racemase Deficient Mice, a Mouse Model of Schizophrenia. *ACS Chemical Neuroscience*, **2018**, 9, 2205-2209	5.7	2
34	Dysbindin-1 contributes to prefrontal cortical dendritic arbor pathology in schizophrenia. *Schizophrenia Research*, **2018**, 201, 270-277	3.6	11
33	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	4.9	23
32	The Role of Serine Racemase in the Pathophysiology of Brain Disorders. *Advances in Pharmacology*, **2018**, 82, 35-56	5.7	30

31	Cognitive Deficits in Prematurely Born Adults Are Associated With Reduced Basal Forebrain Integrity. *Biological Psychiatry*, **2017**, 82, e15-e16	7.9	2
30	Astroglial Versus Neuronal D-Serine: Check Your Controls!. *Trends in Neurosciences*, **2017**, 40, 520-522	13.3	33
29	Enhanced astrocytic d-serine underlies synaptic damage after traumatic brain injury. *Journal of Clinical Investigation*, **2017**, 127, 3114-3125	15.9	57
28	History of the Concept of Disconnectivity in Schizophrenia. *Harvard Review of Psychiatry*, **2016**, 24, 80-6	4.1	30
27	Ca effects on glucose transport and fatty acid oxidation in L6 skeletal muscle cell cultures. *Biochemistry and Biophysics Reports*, **2016**, 5, 365-373	2.2	6
26	An mGlu5-Positive Allosteric Modulator Rescues the Neuroplasticity Deficits in a Genetic Model of NMDA Receptor Hypofunction in Schizophrenia. *Neuropsychopharmacology*, **2016**, 41, 2052-61	8.7	47
25	Serine Racemase **2016**, 283-291		
24	The NMDA Receptor and Schizophrenia: From Pathophysiology to Treatment. *Advances in Pharmacology*, **2016**, 76, 351-82	5.7	133
23	The Rise and Fall of the d-Serine-Mediated Gliotransmission Hypothesis. *Trends in Neurosciences*, **2016**, 39, 712-721	13.3	110
22	Neuronal serine racemase regulates extracellular D-serine levels in the adult mouse hippocampus. *Journal of Neural Transmission*, **2015**, 122, 1099-103	4.3	22
21	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, 216-21	3.6	10
20	The NMDA receptor glycine modulatory site in schizophrenia: D-serine, glycine, and beyond. *Current Opinion in Pharmacology*, **2015**, 20, 109-15	5.1	142
19	D-serine deficiency attenuates the behavioral and cellular effects induced by the hallucinogenic 5-HT(2A) receptor agonist DOI. *Behavioural Brain Research*, **2014**, 259, 242-6	3.4	7
18	Chronic D-serine reverses arc expression and partially rescues dendritic abnormalities in a mouse model of NMDA receptor hypofunction. *Neurochemistry International*, **2014**, 75, 76-8	4.4	30
17	D-serine and serine racemase are localized to neurons in the adult mouse and human forebrain. *Cellular and Molecular Neurobiology*, **2014**, 34, 419-35	4.6	91
16	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	11.5	149
15	Brain monoamines and antidepressant-like responses in MRL/MpJ versus C57BL/6J mice. *Neuropharmacology*, **2013**, 67, 503-10	5.5	7
14	The NMDA receptor co-agonists, D-serine and glycine, regulate neuronal dendritic architecture in the somatosensory cortex. *Neurobiology of Disease*, **2012**, 45, 671-82	7.5	73

13	Depressive phenotypes evoked by experimental diabetes are reversed by insulin. *Physiology and Behavior*, **2012**, 105, 702-8	3.5	38
12	Akt1 deficiency in schizophrenia and impairment of hippocampal plasticity and function. *Hippocampus*, **2012**, 22, 230-40	3.5	64
11	Neuronal D-serine regulates dendritic architecture in the somatosensory cortex. *Neuroscience Letters*, **2012**, 517, 77-81	3.3	39
10	Glutamatergic synaptic dysregulation in schizophrenia: therapeutic implications. *Handbook of Experimental Pharmacology*, **2012**, 267-95	3.2	130
9	Serine racemase deletion disrupts memory for order and alters cortical dendritic morphology. *Genes, Brain and Behavior*, **2011**, 10, 210-22	3.6	92
8	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	3.7	28
7	Neuroplasticity signaling pathways linked to the pathophysiology of schizophrenia. *Neuroscience and Biobehavioral Reviews*, **2011**, 35, 848-70	9	123
6	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, 71-7	3.2	7
5	Beyond the dopamine receptor: novel therapeutic targets for treating schizophrenia. *Dialogues in Clinical Neuroscience*, **2010**, 12, 359-82	5.7	53
4	Enhanced sensitivity of the MRL/MpJ mouse to the neuroplastic and behavioral effects of chronic antidepressant treatments. *Neuropsychopharmacology*, **2009**, 34, 1764-73	8.7	55
3	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, 100-7	1.7	42
2	Adult hippocampal neurogenesis: regulation, functional implications, and contribution to disease pathology. *Neuroscience and Biobehavioral Reviews*, **2009**, 33, 232-52	9	289
1	Differential regulation of central BDNF protein levels by antidepressant and non-antidepressant drug treatments. *Brain Research*, **2008**, 1211, 37-43	3.7	157