

Ronald S Duman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

325
papers

52,522
citations

109
h-index

226
g-index

369
ext. papers

59,133
ext. citations

7.9
avg, IF

8.17
L-index

#	Paper	IF	Citations
325	Requirement of hippocampal neurogenesis for the behavioral effects of antidepressants. <i>Science</i> , 2003 , 301, 805-9	33.3	3427
324	Chronic antidepressant treatment increases neurogenesis in adult rat hippocampus. <i>Journal of Neuroscience</i> , 2000 , 20, 9104-10	6.6	2532
323	A neurotrophic model for stress-related mood disorders. <i>Biological Psychiatry</i> , 2006 , 59, 1116-27	7.9	2473
322	mTOR-dependent synapse formation underlies the rapid antidepressant effects of NMDA antagonists. <i>Science</i> , 2010 , 329, 959-64	33.3	1868
321	A molecular and cellular theory of depression. <i>Archives of General Psychiatry</i> , 1997 , 54, 597-606		1647
320	Brain-derived neurotrophic factor produces antidepressant effects in behavioral models of depression. <i>Journal of Neuroscience</i> , 2002 , 22, 3251-61	6.6	1307
319	Stress, depression, and neuroplasticity: a convergence of mechanisms. <i>Neuropsychopharmacology</i> , 2008 , 33, 88-109	8.7	1242
318	The many faces of CREB. <i>Trends in Neurosciences</i> , 2005 , 28, 436-45	13.3	992
317	Serum brain-derived neurotrophic factor, depression, and antidepressant medications: meta-analyses and implications. <i>Biological Psychiatry</i> , 2008 , 64, 527-32	7.9	891
316	Synaptic dysfunction in depression: potential therapeutic targets. <i>Science</i> , 2012 , 338, 68-72	33.3	816
315	Glutamate N-methyl-D-aspartate receptor antagonists rapidly reverse behavioral and synaptic deficits caused by chronic stress exposure. <i>Biological Psychiatry</i> , 2011 , 69, 754-61	7.9	763
314	Synaptic plasticity and depression: new insights from stress and rapid-acting antidepressants. <i>Nature Medicine</i> , 2016 , 22, 238-49	50.5	732
313	IL-1beta is an essential mediator of the antineurogenic and anhedonic effects of stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 751-6	11.5	666
312	Cell proliferation in adult hippocampus is decreased by inescapable stress: reversal by fluoxetine treatment. <i>Neuropsychopharmacology</i> , 2003 , 28, 1562-71	8.7	637
311	Hippocampal neurogenesis: opposing effects of stress and antidepressant treatment. <i>Hippocampus</i> , 2006 , 16, 239-49	3.5	589
310	Neural plasticity to stress and antidepressant treatment. <i>Biological Psychiatry</i> , 1999 , 46, 1181-91	7.9	537
309	Expression of the transcription factor deltaFosB in the brain controls sensitivity to cocaine. <i>Nature</i> , 1999 , 401, 272-6	50.4	534

308	Neuronal plasticity and survival in mood disorders. <i>Biological Psychiatry</i> , 2000 , 48, 732-9	7.9	528
307	The role of neurotrophic factors in adult hippocampal neurogenesis, antidepressant treatments and animal models of depressive-like behavior. <i>Behavioural Pharmacology</i> , 2007 , 18, 391-418	2.4	522
306	Induction of a long-lasting AP-1 complex composed of altered Fos-like proteins in brain by chronic cocaine and other chronic treatments. <i>Neuron</i> , 1994 , 13, 1235-44	13.9	486
305	Depression: a case of neuronal life and death?. <i>Biological Psychiatry</i> , 2004 , 56, 140-5	7.9	481
304	Decreased expression of synapse-related genes and loss of synapses in major depressive disorder. <i>Nature Medicine</i> , 2012 , 18, 1413-7	50.5	467
303	Signaling pathways underlying the pathophysiology and treatment of depression: novel mechanisms for rapid-acting agents. <i>Trends in Neurosciences</i> , 2012 , 35, 47-56	13.3	464
302	Preclinical models: status of basic research in depression. <i>Biological Psychiatry</i> , 2002 , 52, 503-28	7.9	441
301	Nuclear factor-kappaB is a critical mediator of stress-impaired neurogenesis and depressive behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2669-74	11.5	432
300	Regulation of neurogenesis in adult mouse hippocampus by cAMP and the cAMP response element-binding protein. <i>Journal of Neuroscience</i> , 2002 , 22, 3673-82	6.6	408
299	Glial loss in the prefrontal cortex is sufficient to induce depressive-like behaviors. <i>Biological Psychiatry</i> , 2008 , 64, 863-70	7.9	407
298	Role of neurotrophic factors in the etiology and treatment of mood disorders. <i>NeuroMolecular Medicine</i> , 2004 , 5, 11-25	4.6	407
297	Antidepressants and neuroplasticity. <i>Bipolar Disorders</i> , 2002 , 4, 183-94	3.8	375
296	Signaling pathways underlying the rapid antidepressant actions of ketamine. <i>Neuropharmacology</i> , 2012 , 62, 35-41	5.5	373
295	The inflammasome: pathways linking psychological stress, depression, and systemic illnesses. <i>Brain, Behavior, and Immunity</i> , 2013 , 31, 105-14	16.6	356
294	5-HT _{2A} receptor-mediated regulation of brain-derived neurotrophic factor mRNA in the hippocampus and the neocortex. <i>Journal of Neuroscience</i> , 1997 , 17, 2785-95	6.6	354
293	Blocking TGF-beta-Smad2/3 innate immune signaling mitigates Alzheimer-like pathology. <i>Nature Medicine</i> , 2008 , 14, 681-7	50.5	353
292	VEGF is an essential mediator of the neurogenic and behavioral actions of antidepressants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 4647-52	11.5	351
291	Integrating neuroimmune systems in the neurobiology of depression. <i>Nature Reviews Neuroscience</i> , 2016 , 17, 497-511	13.5	338

290	Regulation of adult neurogenesis by antidepressant treatment. <i>Neuropsychopharmacology</i> , 2001 , 25, 836-44	8.7	327
289	Finding the intracellular signaling pathways affected by mood disorder treatments. <i>Neuron</i> , 2003 , 38, 157-60	13.9	321
288	Voluntary exercise produces antidepressant and anxiolytic behavioral effects in mice. <i>Brain Research</i> , 2008 , 1199, 148-58	3.7	319
287	Chronic olanzapine or fluoxetine administration increases cell proliferation in hippocampus and prefrontal cortex of adult rat. <i>Biological Psychiatry</i> , 2004 , 56, 570-80	7.9	313
286	A negative regulator of MAP kinase causes depressive behavior. <i>Nature Medicine</i> , 2010 , 16, 1328-32	50.5	311
285	Functional biomarkers of depression: diagnosis, treatment, and pathophysiology. <i>Neuropsychopharmacology</i> , 2011 , 36, 2375-94	8.7	305
284	Rapid-acting glutamatergic antidepressants: the path to ketamine and beyond. <i>Biological Psychiatry</i> , 2013 , 73, 1133-41	7.9	302
283	Gene profile of electroconvulsive seizures: induction of neurotrophic and angiogenic factors. <i>Journal of Neuroscience</i> , 2003 , 23, 10841-51	6.6	299
282	Peripheral BDNF produces antidepressant-like effects in cellular and behavioral models. <i>Neuropsychopharmacology</i> , 2010 , 35, 2378-91	8.7	287
281	Brain-derived neurotrophic factor Val66Met allele impairs basal and ketamine-stimulated synaptogenesis in prefrontal cortex. <i>Biological Psychiatry</i> , 2012 , 71, 996-1005	7.9	286
280	A role for MAP kinase signaling in behavioral models of depression and antidepressant treatment. <i>Biological Psychiatry</i> , 2007 , 61, 661-70	7.9	271
279	Chronic unpredictable stress decreases cell proliferation in the cerebral cortex of the adult rat. <i>Biological Psychiatry</i> , 2007 , 62, 496-504	7.9	269
278	Altered Connectivity in Depression: GABA and Glutamate Neurotransmitter Deficits and Reversal by Novel Treatments. <i>Neuron</i> , 2019 , 102, 75-90	13.9	261
277	Induction of deltaFosB in reward-related brain structures after chronic stress. <i>Journal of Neuroscience</i> , 2004 , 24, 10594-602	6.6	261
276	Expression of the cAMP response element binding protein (CREB) in hippocampus produces an antidepressant effect. <i>Biological Psychiatry</i> , 2001 , 49, 753-62	7.9	261
275	Inhibition of cAMP response element-binding protein or dynorphin in the nucleus accumbens produces an antidepressant-like effect. <i>Journal of Neuroscience</i> , 2002 , 22, 10883-90	6.6	260
274	Stress increases dynorphin immunoreactivity in limbic brain regions and dynorphin antagonism produces antidepressant-like effects. <i>Journal of Neurochemistry</i> , 2004 , 90, 1258-68	6	248
273	Ketamine and rapid-acting antidepressants: a window into a new neurobiology for mood disorder therapeutics. <i>Annual Review of Medicine</i> , 2015 , 66, 509-23	17.4	247

272	How do antidepressants work? New perspectives for refining future treatment approaches. <i>Lancet Psychiatry</i> , 2017 , 4, 409-418	23.3	241
271	Differential regulation of brain derived neurotrophic factor transcripts by antidepressant treatments in the adult rat brain. <i>Neuropharmacology</i> , 2003 , 45, 553-63	5.5	237
270	Regionally specific regulation of ERK MAP kinase in a model of antidepressant-sensitive chronic depression. <i>Biological Psychiatry</i> , 2008 , 63, 353-9	7.9	222
269	Novel therapeutic approaches beyond the serotonin receptor. <i>Biological Psychiatry</i> , 1998 , 44, 324-35	7.9	221
268	Antidepressant actions of the exercise-regulated gene VGF. <i>Nature Medicine</i> , 2007 , 13, 1476-82	50.5	217
267	A neurotrophic hypothesis of depression: role of synaptogenesis in the actions of NMDA receptor antagonists. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 2475-84	5.8	213
266	Downregulation of BDNF mRNA in the hippocampal dentate gyrus after re-exposure to cues previously associated with footshock. <i>Neuropsychopharmacology</i> , 2002 , 27, 133-42	8.7	212
265	Psychological Stress Activates the Inflammasome via Release of Adenosine Triphosphate and Stimulation of the Purinergic Type 2X7 Receptor. <i>Biological Psychiatry</i> , 2016 , 80, 12-22	7.9	211
264	Chronic cocaine treatment decreases levels of the G protein subunits Gi alpha and Go alpha in discrete regions of rat brain. <i>Journal of Neurochemistry</i> , 1990 , 55, 1079-82	6	208
263	Repeated stress increases catalytic TrkB mRNA in rat hippocampus. <i>Neuroscience Letters</i> , 1999 , 267, 81-83	5.3	205
262	TNFalpha signaling in depression and anxiety: behavioral consequences of individual receptor targeting. <i>Biological Psychiatry</i> , 2006 , 59, 775-85	7.9	200
261	Regulation of adult neurogenesis by psychotropic drugs and stress. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2001 , 299, 401-7	4.7	200
260	Scopolamine rapidly increases mammalian target of rapamycin complex 1 signaling, synaptogenesis, and antidepressant behavioral responses. <i>Biological Psychiatry</i> , 2013 , 74, 742-9	7.9	198
259	BDNF release is required for the behavioral actions of ketamine. <i>International Journal of Neuropsychopharmacology</i> , 2014 , 18,	5.8	192
258	Regulation of G proteins by chronic morphine in the rat locus coeruleus. <i>Brain Research</i> , 1989 , 476, 230-37	3.7	192
257	Antipsychotic drugs: comparison in animal models of efficacy, neurotransmitter regulation, and neuroprotection. <i>Pharmacological Reviews</i> , 2008 , 60, 358-403	22.5	190
256	Dysregulation of protein kinase a signaling in the aged prefrontal cortex: new strategy for treating age-related cognitive decline. <i>Neuron</i> , 2003 , 40, 835-45	13.9	187
255	Chronic antidepressant administration alters the subcellular distribution of cyclic AMP-dependent protein kinase in rat frontal cortex. <i>Journal of Neurochemistry</i> , 1989 , 53, 1644-7	6	186

254	Altered expression of synapse and glutamate related genes in post-mortem hippocampus of depressed subjects. <i>International Journal of Neuropsychopharmacology</i> , 2013 , 16, 69-82	5.8	185
253	Chronic ingestion of ethanol up-regulates NMDAR1 receptor subunit immunoreactivity in rat hippocampus. <i>Journal of Neurochemistry</i> , 1994 , 62, 1635-8	6	185
252	REDD1 is essential for stress-induced synaptic loss and depressive behavior. <i>Nature Medicine</i> , 2014 , 20, 531-5	50.5	184
251	Regional and cellular mapping of cAMP response element-mediated transcription during naltrexone-precipitated morphine withdrawal. <i>Journal of Neuroscience</i> , 2002 , 22, 3663-72	6.6	182
250	GSK-3 inhibition potentiates the synaptogenic and antidepressant-like effects of subthreshold doses of ketamine. <i>Neuropsychopharmacology</i> , 2013 , 38, 2268-77	8.7	177
249	Biochemical actions of chronic ethanol exposure in the mesolimbic dopamine system. <i>Synapse</i> , 1995 , 21, 289-98	2.4	176
248	Emerging treatment mechanisms for depression: focus on glutamate and synaptic plasticity. <i>Drug Discovery Today</i> , 2016 , 21, 454-64	8.8	172
247	Electroconvulsive seizure and VEGF increase the proliferation of neural stem-like cells in rat hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11352-7	11.5	171
246	Remodeling of hippocampal spine synapses in the rat learned helplessness model of depression. <i>Biological Psychiatry</i> , 2009 , 65, 392-400	7.9	162
245	Transgenic animals with inducible, targeted gene expression in brain. <i>Molecular Pharmacology</i> , 1998 , 54, 495-503	4.3	162
244	Induction of the c-fos proto-oncogene during opiate withdrawal in the locus coeruleus and other regions of rat brain. <i>Brain Research</i> , 1990 , 525, 256-66	3.7	160
243	Pathophysiology of depression and innovative treatments: remodeling glutamatergic synaptic connections. <i>Dialogues in Clinical Neuroscience</i> , 2014 , 16, 11-27	5.7	160
242	High-Fat Diet Induced Anxiety and Anhedonia: Impact on Brain Homeostasis and Inflammation. <i>Neuropsychopharmacology</i> , 2016 , 41, 1874-87	8.7	159
241	Optogenetic stimulation of infralimbic PFC reproduces ketamine's rapid and sustained antidepressant actions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8106-11	11.5	158
240	Spine synapse remodeling in the pathophysiology and treatment of depression. <i>Neuroscience Letters</i> , 2015 , 601, 20-9	3.3	155
239	Stressor-specific regulation of distinct brain-derived neurotrophic factor transcripts and cyclic AMP response element-binding protein expression in the postnatal and adult rat hippocampus. <i>Neuropsychopharmacology</i> , 2007 , 32, 1504-19	8.7	155
238	Activation of cAMP signaling facilitates the morphological maturation of newborn neurons in adult hippocampus. <i>Journal of Neuroscience</i> , 2004 , 24, 319-28	6.6	155
237	Depression--emerging insights from neurobiology. <i>British Medical Bulletin</i> , 2001 , 57, 61-79	5.4	153

236	Chronic antidepressant administration increases the expression of cAMP-specific phosphodiesterase 4A and 4B isoforms. <i>Journal of Neuroscience</i> , 1999 , 19, 610-8	6.6	153
235	Lower synaptic density is associated with depression severity and network alterations. <i>Nature Communications</i> , 2019 , 10, 1529	17.4	150
234	Cell atrophy and loss in depression: reversal by antidepressant treatment. <i>Current Opinion in Cell Biology</i> , 2011 , 23, 730-7	9	139
233	Ketamine: A Paradigm Shift for Depression Research and Treatment. <i>Neuron</i> , 2019 , 101, 774-778	13.9	137
232	Neurobiology of stress, depression, and rapid acting antidepressants: remodeling synaptic connections. <i>Depression and Anxiety</i> , 2014 , 31, 291-6	8.4	136
231	Neuronal damage and protection in the pathophysiology and treatment of psychiatric illness: stress and depression. <i>Dialogues in Clinical Neuroscience</i> , 2009 , 11, 239-55	5.7	128
230	Stress-Induced Neuronal Colony Stimulating Factor 1 Provokes Microglia-Mediated Neuronal Remodeling and Depressive-like Behavior. <i>Biological Psychiatry</i> , 2018 , 83, 38-49	7.9	127
229	Repeated unpredictable stress and antidepressants differentially regulate expression of the bcl-2 family of apoptotic genes in rat cortical, hippocampal, and limbic brain structures. <i>Neuropsychopharmacology</i> , 2008 , 33, 1545-58	8.7	125
228	mTOR activation is required for the antidepressant effects of mGluR1 blockade. <i>International Journal of Neuropsychopharmacology</i> , 2012 , 15, 429-34	5.8	123
227	Regulation of neurogenesis and gliogenesis by stress and antidepressant treatment. <i>CNS and Neurological Disorders - Drug Targets</i> , 2007 , 6, 311-20	2.6	123
226	Role of 5-HT _{2A} receptors in the stress-induced down-regulation of brain-derived neurotrophic factor expression in rat hippocampus. <i>Neuroscience Letters</i> , 1999 , 262, 1-4	3.3	123
225	Vascular endothelial growth factor regulates adult hippocampal cell proliferation through MEK/ERK- and PI3K/Akt-dependent signaling. <i>Neuropharmacology</i> , 2012 , 63, 642-52	5.5	121
224	Vascular endothelial growth factor signaling is required for the behavioral actions of antidepressant treatment: pharmacological and cellular characterization. <i>Neuropsychopharmacology</i> , 2009 , 34, 2459-68	8.7	120
223	Coordinate regulation of the cyclic AMP system with firing rate and expression of tyrosine hydroxylase in the rat locus coeruleus: effects of chronic stress and drug treatments. <i>Journal of Neurochemistry</i> , 1992 , 58, 494-502	6	118
222	Ketamine and rapid-acting antidepressants: a new era in the battle against depression and suicide. <i>F1000Research</i> , 2018 , 7,	3.6	116
221	Remodeling of axo-spinous synapses in the pathophysiology and treatment of depression. <i>Neuroscience</i> , 2013 , 251, 33-50	3.9	111
220	Neurotrophic factors and regulation of mood: role of exercise, diet and metabolism. <i>Neurobiology of Aging</i> , 2005 , 26 Suppl 1, 88-93	5.6	111
219	Differential induction of immediate early genes by excitatory amino acid receptor types in primary cultures of cortical and striatal neurons. <i>Molecular Brain Research</i> , 1992 , 12, 233-41		111

218	Chronic electroconvulsive seizures down-regulate expression of the immediate-early genes c-fos and c-jun in rat cerebral cortex. <i>Journal of Neurochemistry</i> , 1990 , 54, 1920-5	6	111
217	Antidepressant effects of fibroblast growth factor-2 in behavioral and cellular models of depression. <i>Biological Psychiatry</i> , 2012 , 72, 258-65	7.9	110
216	VEGF as a potential target for therapeutic intervention in depression. <i>Current Opinion in Pharmacology</i> , 2008 , 8, 14-9	5.1	109
215	A double dissociation revealing bidirectional competition between striatum and hippocampus during learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17163-8	11.5	108
214	Effects of cyclic adenosine monophosphate response element binding protein overexpression in the basolateral amygdala on behavioral models of depression and anxiety. <i>Biological Psychiatry</i> , 2004 , 56, 151-60	7.9	107
213	A postpartum model in rat: behavioral and gene expression changes induced by ovarian steroid deprivation. <i>Biological Psychiatry</i> , 2008 , 64, 311-9	7.9	106
212	Essential role of the fosB gene in molecular, cellular, and behavioral actions of chronic electroconvulsive seizures. <i>Journal of Neuroscience</i> , 1998 , 18, 6952-62	6.6	106
211	Targeted ablation of cholinergic interneurons in the dorsolateral striatum produces behavioral manifestations of Tourette syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 893-8	11.5	105
210	Role of vascular endothelial growth factor in adult hippocampal neurogenesis: implications for the pathophysiology and treatment of depression. <i>Behavioural Brain Research</i> , 2012 , 227, 440-9	3.4	104
209	The neurobiology of depression, ketamine and rapid-acting antidepressants: Is it glutamate inhibition or activation?. <i>Pharmacology & Therapeutics</i> , 2018 , 190, 148-158	13.9	103
208	Electroconvulsive seizure treatment increases cell proliferation in rat frontal cortex. <i>Neuropsychopharmacology</i> , 2005 , 30, 27-34	8.7	102
207	Stress differentially regulates synaptophysin and synaptotagmin expression in hippocampus. <i>Biological Psychiatry</i> , 2001 , 50, 809-12	7.9	102
206	Cortical GABAergic Dysfunction in Stress and Depression: New Insights for Therapeutic Interventions. <i>Frontiers in Cellular Neuroscience</i> , 2019 , 13, 87	6.1	101
205	Fast-acting antidepressants rapidly stimulate ERK signaling and BDNF release in primary neuronal cultures. <i>Neuropharmacology</i> , 2016 , 111, 242-252	5.5	99
204	Influence of estradiol, stress, and 5-HT2A agonist treatment on brain-derived neurotrophic factor expression in female rats. <i>Biological Psychiatry</i> , 2003 , 54, 59-69	7.9	99
203	Peripheral insulin-like growth factor-I produces antidepressant-like behavior and contributes to the effect of exercise. <i>Behavioural Brain Research</i> , 2009 , 198, 366-71	3.4	98
202	A Bcl-xL-Drp1 complex regulates synaptic vesicle membrane dynamics during endocytosis. <i>Nature Cell Biology</i> , 2013 , 15, 773-85	23.4	96
201	Interleukin-1 receptor null mutant mice show decreased anxiety-like behavior and enhanced fear memory. <i>Neuroscience Letters</i> , 2009 , 456, 39-43	3.3	94

200	Chronic electroconvulsive seizure up-regulates beta-catenin expression in rat hippocampus: role in adult neurogenesis. <i>Biological Psychiatry</i> , 2003 , 54, 1006-14	7.9	94
199	GABA interneurons are the cellular trigger for ketamine's rapid antidepressant actions. <i>Journal of Clinical Investigation</i> , 2020 , 130, 1336-1349	15.9	94
198	Optogenetic stimulation of medial prefrontal cortex Drd1 neurons produces rapid and long-lasting antidepressant effects. <i>Nature Communications</i> , 2019 , 10, 223	17.4	94
197	The anxiolytic effects of cannabidiol in chronically stressed mice are mediated by the endocannabinoid system: Role of neurogenesis and dendritic remodeling. <i>Neuropharmacology</i> , 2018 , 135, 22-33	5.5	93
196	Antipyretic role of endogenous melanocortins mediated by central melanocortin receptors during endotoxin-induced fever. <i>Journal of Neuroscience</i> , 1997 , 17, 3343-51	6.6	93
195	Gene expression profiling in postmortem prefrontal cortex of major depressive disorder. <i>Journal of Neuroscience</i> , 2007 , 27, 13329-40	6.6	93
194	Convergent Mechanisms Underlying Rapid Antidepressant Action. <i>CNS Drugs</i> , 2018 , 32, 197-227	6.7	92
193	Beta-hydroxybutyrate, an endogenous NLRP3 inflammasome inhibitor, attenuates stress-induced behavioral and inflammatory responses. <i>Scientific Reports</i> , 2017 , 7, 7677	4.9	92
192	Persistent Increase in Microglial RAGE Contributes to Chronic Stress-Induced Priming of Depressive-like Behavior. <i>Biological Psychiatry</i> , 2018 , 83, 50-60	7.9	91
191	Activity-dependent brain-derived neurotrophic factor signaling is required for the antidepressant actions of (2,6)-hydroxynorketamine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 297-302	11.5	91
190	Effects of the brain-derived neurotrophic growth factor val66met variation on hippocampus morphology in bipolar disorder. <i>Neuropsychopharmacology</i> , 2009 , 34, 944-51	8.7	89
189	Wnt2 expression and signaling is increased by different classes of antidepressant treatments. <i>Biological Psychiatry</i> , 2010 , 68, 521-7	7.9	88
188	Region-specific regulation of RGS4 (Regulator of G-protein-signaling protein type 4) in brain by stress and glucocorticoids: in vivo and in vitro studies. <i>Journal of Neuroscience</i> , 1999 , 19, 3674-80	6.6	88
187	Neuroplasticity in cognitive and psychological mechanisms of depression: an integrative model. <i>Molecular Psychiatry</i> , 2020 , 25, 530-543	15.1	88
186	GABA interneurons mediate the rapid antidepressant-like effects of scopolamine. <i>Journal of Clinical Investigation</i> , 2016 , 126, 2482-94	15.9	87
185	Activation of mammalian target of rapamycin and synaptogenesis: role in the actions of rapid-acting antidepressants. <i>Biological Psychiatry</i> , 2013 , 73, 1189-98	7.9	86
184	Molecular and Cellular Mechanisms of Rapid-Acting Antidepressants Ketamine and Scopolamine. <i>Current Neuropharmacology</i> , 2017 , 15, 11-20	7.6	86
183	Chronic ethanol administration regulates the expression of GABAA receptor alpha 1 and alpha 5 subunits in the ventral tegmental area and hippocampus. <i>Journal of Neurochemistry</i> , 1997 , 68, 121-7	6	83

182	New paradigms for treatment-resistant depression. <i>Annals of the New York Academy of Sciences</i> , 2013 , 1292, 21-31	6.5	82
181	Prefrontal Cortex GABAergic Deficits and Circuit Dysfunction in the Pathophysiology and Treatment of Chronic Stress and Depression. <i>Current Opinion in Behavioral Sciences</i> , 2017 , 14, 1-8	4	81
180	Rapid antidepressant actions of scopolamine: Role of medial prefrontal cortex and M1-subtype muscarinic acetylcholine receptors. <i>Neurobiology of Disease</i> , 2015 , 82, 254-261	7.5	80
179	Depression and sterile inflammation: Essential role of danger associated molecular patterns. <i>Brain, Behavior, and Immunity</i> , 2018 , 72, 2-13	16.6	80
178	Blockade of melanocortin transmission inhibits cocaine reward. <i>European Journal of Neuroscience</i> , 2005 , 21, 2233-42	3.5	79
177	Role of corticotropin-releasing factor receptor-1 in opiate withdrawal. <i>Journal of Neurochemistry</i> , 2000 , 74, 199-208	6	77
176	Regulation of cAMP-specific phosphodiesterases type 4B and 4D (PDE4) splice variants by cAMP signaling in primary cortical neurons. <i>Journal of Neurochemistry</i> , 2002 , 81, 745-57	6	76
175	Altered metabotropic glutamate receptor 5 markers in PTSD: In vivo and postmortem evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8390-8395	11.5	75
174	Activity-Dependent Brain-Derived Neurotrophic Factor Release Is Required for the Rapid Antidepressant Actions of Scopolamine. <i>Biological Psychiatry</i> , 2018 , 83, 29-37	7.9	73
173	Neuritin produces antidepressant actions and blocks the neuronal and behavioral deficits caused by chronic stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11378-83	11.5	73
172	Neurogenic actions of atypical antipsychotic drugs and therapeutic implications. <i>CNS Drugs</i> , 2007 , 21, 715-25	6.7	73
171	GLYX-13 Produces Rapid Antidepressant Responses with Key Synaptic and Behavioral Effects Distinct from Ketamine. <i>Neuropsychopharmacology</i> , 2017 , 42, 1231-1242	8.7	72
170	Gene profiling the response to kainic acid induced seizures. <i>Molecular Brain Research</i> , 2005 , 141, 95-112		72
169	Ketamine accelerates fear extinction via mTORC1 signaling. <i>Neurobiology of Disease</i> , 2017 , 100, 1-8	7.5	71
168	Post-weaning chronic social isolation produces profound behavioral dysregulation with decreases in prefrontal cortex synaptic-associated protein expression in female rats. <i>Physiology and Behavior</i> , 2011 , 104, 354-9	3.5	71
167	Electroconvulsive seizure-induced gene expression profile of the hippocampus dentate gyrus granule cell layer. <i>Journal of Neurochemistry</i> , 2006 , 99, 1122-32	6	69
166	Endogenous ADP-ribosylation in brain: initial characterization of substrate proteins. <i>Journal of Neurochemistry</i> , 1991 , 57, 2124-32	6	68
165	Neurobiology of rapid-acting antidepressants: convergent effects on GluA1-synaptic function. <i>Molecular Psychiatry</i> , 2019 , 24, 1816-1832	15.1	67

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2 The neurotrophic and antidepressant actions of BDNF and VEGF require interactive signaling. ○
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