

# Neurotrophin regulation of neural circuit development

Nature Reviews Neuroscience

14, 7-23

DOI: [10.1038/nrn3379](https://doi.org/10.1038/nrn3379)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Organotypic Hippocampal Slice Cultures. <i>Journal of Visualized Experiments</i> , 2011, , .	0.2	41
2	The growth factors cascade and the dendrito-/synapto-genesis versus cell survival in adult hippocampal neurogenesis: The chicken or the egg. <i>Ageing Research Reviews</i> , 2013, 12, 777-785.	5.0	15
3	Neural Stem Cells Grafts Decrease Neural Apoptosis Associated with Caspase-7 Downregulation and BDNF Upregulation in Rats Following Spinal Cord Hemisection. <i>Cellular and Molecular Neurobiology</i> , 2013, 33, 1013-1022.	1.7	8
4	The physiological roles of primary phospholipase $\hat{A}$ C. <i>Advances in Biological Regulation</i> , 2013, 53, 232-241.	1.4	83
5	Classical aversive conditioning induces increased expression of mature-BDNF in the hippocampus and amygdala of pigeons. <i>Neuroscience</i> , 2013, 255, 122-133.	1.1	10
6	Exercise Induces Hippocampal BDNF through a PGC-1 $\hat{\pm}$ /FNDC5 Pathway. <i>Cell Metabolism</i> , 2013, 18, 649-659.	7.2	925
7	Interleukins and Atherosclerosis: A Dysfunctional Family Grows. <i>Cell Metabolism</i> , 2013, 18, 614-616.	7.2	12
8	BDNF (I)rising from Exercise. <i>Cell Metabolism</i> , 2013, 18, 612-614.	7.2	34
9	Deep Sequencing and High-Resolution Imaging Reveal Compartment-Specific Localization of <i>Bdnf</i> mRNA in Hippocampal Neurons. <i>Science Signaling</i> , 2013, 6, rs16.	1.6	38
10	Up-Regulation of Neurotrophic Factors by Cinnamon and its Metabolite Sodium Benzoate: Therapeutic Implications for Neurodegenerative Disorders. <i>Journal of NeuroImmune Pharmacology</i> , 2013, 8, 739-755.	2.1	102
11	Neuropeptide orphanin FQ inhibits dendritic morphogenesis through activation of RhoA. <i>Developmental Neurobiology</i> , 2013, 73, 769-784.	1.5	18
12	Activity-Dependent Neural Plasticity from Bench to Bedside. <i>Neuron</i> , 2013, 80, 729-741.	3.8	158
13	Ablation of TrkB expression in RGS9-2 cells leads to hyperphagic obesity. <i>Molecular Metabolism</i> , 2013, 2, 491-497.	3.0	20
14	CREB phosphorylation regulates striatal transcriptional responses in the self-administration model of methamphetamine addiction in the rat. <i>Neurobiology of Disease</i> , 2013, 58, 132-143.	2.1	115
15	The entorhinal cortex and neurotrophin signaling in Alzheimer's disease and other disorders. <i>Cognitive Neuroscience</i> , 2013, 4, 123-135.	0.6	38
16	Enduring psychobiological effects of childhood adversity. <i>Psychoneuroendocrinology</i> , 2013, 38, 1850-1857.	1.3	185
17	Role of BDNF in Central Motor Structures and Motor Diseases. <i>Molecular Neurobiology</i> , 2013, 48, 783-793.	1.9	70
18	BDNF-based synaptic repair as a disease-modifying strategy for neurodegenerative diseases. <i>Nature Reviews Neuroscience</i> , 2013, 14, 401-416.	4.9	601

#	ARTICLE	IF	CITATIONS
19	Zinc(II) Interactions with Brain-Derived Neurotrophic Factor N-Terminal Peptide Fragments: Inorganic Features and Biological Perspectives. <i>Inorganic Chemistry</i> , 2013, 52, 11075-11083.	1.9	27
20	Growth factor signaling and memory formation: temporal and spatial integration of a molecular network. <i>Learning and Memory</i> , 2013, 20, 531-539.	0.5	16
21	Mesenchymal Stem Cell Transplantation Attenuates Brain Injury After Neonatal Stroke. <i>Stroke</i> , 2013, 44, 1426-1432.	1.0	181
22	Does extracellular proteolysis control mammalian cognition?. <i>Reviews in the Neurosciences</i> , 2013, 24, 365-74.	1.4	16
23	Intracoronary Infusion of Autologous CD133+ Cells in Myocardial Infarction and Tracing by Tc99m MIBI Scintigraphy of the Heart Areas Involved in Cell Homing. <i>Stem Cells International</i> , 2013, 2013, 1-9.	1.2	11
24	Lysophosphatidylcholine Potentiates BDNF-Induced TrkB Phosphorylation and Downstream Signals in Cerebellar Granule Neurons. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 2510-2513.	0.6	6
25	Loss of BDNF or its receptors in three mouse models has unpredictable consequences for anxiety and fear acquisition. <i>Learning and Memory</i> , 2013, 20, 499-504.	0.5	26
26	Hippocampal Gene Expression Meta-Analysis Identifies Aging and Age-Associated Spatial Learning Impairment (ASLI) Genes and Pathways. <i>PLoS ONE</i> , 2013, 8, e69768.	1.1	20
27	D-serine as a gliotransmitter and its roles in brain development and disease. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 39.	1.8	89
28	Activity-dependent adaptations in inhibitory axons. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 219.	1.8	13
29	Growth factors in synaptic function. <i>Frontiers in Synaptic Neuroscience</i> , 2013, 5, 6.	1.3	48
30	Contributions of animal models to the study of mood disorders. <i>Revista Brasileira De Psiquiatria</i> , 2013, 35, S121-S131.	0.9	58
31	The response of denervated muscle to long-term stimulation (1985, revisited here in 2014). <i>European Journal of Translational Myology</i> , 2014, 24, .	0.8	3
32	Neurotrophic Requirements of Human Motor Neurons Defined Using Amplified and Purified Stem Cell-Derived Cultures. <i>PLoS ONE</i> , 2014, 9, e110324.	1.1	42
33	A possible link between BDNF and mTOR in control of food intake. <i>Frontiers in Psychology</i> , 2014, 5, 1093.	1.1	46
34	Exercise enhances memory consolidation in the aging brain. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 3.	1.7	55
35	Mice with altered BDNF signaling as models for mood disorders and antidepressant effects. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 143.	1.0	91
36	High abundance of BDNF within glutamatergic presynapses of cultured hippocampal neurons. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 107.	1.8	73

#	ARTICLE	IF	CITATIONS
37	RNA interference-mediated knockdown of brain-derived neurotrophic factor (BDNF) promotes cell cycle arrest and apoptosis in B-cell lymphoma cells. <i>Neoplasma</i> , 2014, 62, 523-532.	0.7	9
38	BDNF: Ein Regulator von Lern- und Gedächtnisprozessen mit klinischem Potenzial. <i>E-Neuroforum</i> , 2014, 20, 166-177.	0.2	3
39	The diverse roles and multiple forms of focal adhesion kinase in brain. <i>European Journal of Neuroscience</i> , 2014, 40, 3573-3590.	1.2	25
40	Association Between Neurotrophin 4 and Long-Chain Polyunsaturated Fatty Acid Levels in Mid-Trimester Amniotic Fluid. <i>Reproductive Sciences</i> , 2014, 21, 1395-1400.	1.1	3
41	Neuronal Somata and Extrasomal Compartments Play Distinct Roles during Synapse Formation between Lymnaea Neurons. <i>Journal of Neuroscience</i> , 2014, 34, 11304-11315.	1.7	7
42	De-repressing LncRNA-Targeted Genes to Upregulate Gene Expression: Focus on Small Molecule Therapeutics. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e196.	2.3	63
43	Regenerative Biology of the Eye. <i>Pancreatic Islet Biology</i> , 2014, , .	0.1	4
44	Molecular and genetic basis of depression. <i>Journal of Genetics</i> , 2014, 93, 879-892.	0.4	22
45	The genetic basis of music ability. <i>Frontiers in Psychology</i> , 2014, 5, 658.	1.1	60
46	Two-Stage Translational Control of Dentate Gyrus LTP Consolidation Is Mediated by Sustained BDNF-TrkB Signaling to MNK. <i>Cell Reports</i> , 2014, 9, 1430-1445.	2.9	122
47	The Effects of Neurotrophins and the Neuropeptides VIP and PACAP on HIV-1 Infection: Histories with Opposite Ends. <i>NeuroImmunoModulation</i> , 2014, 21, 268-282.	0.9	9
48	Human Striatum Remodelling after Neurotransplantation in Huntington's Disease. <i>Stereotactic and Functional Neurosurgery</i> , 2014, 92, 211-217.	0.8	10
49	How Can You Mend a Broken Brain? - Neurorestorative Approaches to Stroke Recovery. <i>Cerebrovascular Diseases</i> , 2014, 38, 233-239.	0.8	29
50	Structural basis for extracellular cis and trans RPTP $\beta$ signal competition in synaptogenesis. <i>Nature Communications</i> , 2014, 5, 5209.	5.8	67
51	A role for the endocannabinoid system in exercise-induced spatial memory enhancement in mice. <i>Hippocampus</i> , 2014, 24, 79-88.	0.9	58
52	Neonatal hypoxic-ischemic encephalopathy reduces c-Fos activation in the rat hippocampus: evidence of a long-lasting effect. <i>International Journal of Developmental Neuroscience</i> , 2014, 38, 213-222.	0.7	7
53	The effect of neuropeptide Y on cell survival and neurotrophin expression in in-vitro models of Alzheimer's disease. <i>Canadian Journal of Physiology and Pharmacology</i> , 2014, 92, 621-630.	0.7	18
54	Essential Role of Presynaptic NMDA Receptors in Activity-Dependent BDNF Secretion and Corticostriatal LTP. <i>Neuron</i> , 2014, 84, 1009-1022.	3.8	116

#	ARTICLE	IF	CITATIONS
55	Genome-Wide Association Studies of Obesity. , 2014, , 33-53.		2
56	Dendrite morphogenesis depends on relative levels of NT-3/TrkC signaling. <i>Science</i> , 2014, 346, 626-629.	6.0	93
57	MET Receptor Tyrosine Kinase Controls Dendritic Complexity, Spine Morphogenesis, and Glutamatergic Synapse Maturation in the Hippocampus. <i>Journal of Neuroscience</i> , 2014, 34, 16166-16179.	1.7	57
58	Neutralization of Nogo-A Enhances Synaptic Plasticity in the Rodent Motor Cortex and Improves Motor Learning in Vivo. <i>Journal of Neuroscience</i> , 2014, 34, 8685-8698.	1.7	71
59	Polymorphisms in the Dopamine Receptor 2 Gene Region Influence Improvements during Working Memory Training in Children and Adolescents. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 54-62.	1.1	58
60	Arf6 Guanine Nucleotide Exchange Factor Cytohesin-2 Binds to CCDC120 and Is Transported Along Neurites to Mediate Neurite Growth. <i>Journal of Biological Chemistry</i> , 2014, 289, 33887-33903.	1.6	17
62	Parent-of-origin genetic background affects the transcriptional levels of circadian and neuronal plasticity genes following sleep loss. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20120471.	1.8	21
63	Isoflurane Impairs the Capacity of Astrocytes to Support Neuronal Development in a Mouse Dissociated Coculture Model. <i>Journal of Neurosurgical Anesthesiology</i> , 2014, 26, 363-368.	0.6	32
64	Cleavage within Reelin Repeat 3 Regulates the Duration and Range of the Signaling Activity of Reelin Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 12922-12930.	1.6	65
65	The BDNF effects on dendritic spines of mature hippocampal neurons depend on neuronal activity. <i>Frontiers in Synaptic Neuroscience</i> , 2014, 6, 5.	1.3	134
66	The Role of Rab Proteins in Neuronal Cells and in the Trafficking of Neurotrophin Receptors. <i>Membranes</i> , 2014, 4, 642-677.	1.4	70
67	Neural Progenitor Cell Implants in the Lesioned Medial Longitudinal Fascicle of Adult Cats Regulate Synaptic Composition and Firing Properties of Abducens Internuclear Neurons. <i>Journal of Neuroscience</i> , 2014, 34, 7007-7017.	1.7	10
68	Multifaceted roles of BDNF and FGF2 in human striatal primordium development. An in vitro study. <i>Experimental Neurology</i> , 2014, 257, 130-147.	2.0	23
69	Neuroprotective effect of curcumin on hippocampal injury in 6-OHDA-induced Parkinson's disease rat. <i>Pathology Research and Practice</i> , 2014, 210, 357-362.	1.0	78
70	Curious cases: Altered dose-response relationships in addiction genetics. , 2014, 141, 335-346.		26
71	BDNF mechanisms in late LTP formation: A synthesis and breakdown. <i>Neuropharmacology</i> , 2014, 76, 664-676.	2.0	284
72	Val66Met polymorphism and serum brain-derived neurotrophic factor in bipolar disorder: an open-label trial. <i>Acta Psychiatrica Scandinavica</i> , 2014, 129, 393-400.	2.2	23
73	Serum BDNF concentrations as peripheral manifestations of depression: evidence from a systematic review and meta-analyses on 179 associations (N=9484). <i>Molecular Psychiatry</i> , 2014, 19, 791-800.	4.1	542

#	ARTICLE	IF	CITATIONS
74	Electroencephalographic activity of preterm infants is increased by Family Nurture Intervention: A randomized controlled trial in the NICU. <i>Clinical Neurophysiology</i> , 2014, 125, 675-684.	0.7	82
75	Deciphering Proneurotrophin Actions. <i>Handbook of Experimental Pharmacology</i> , 2014, 220, 17-32.	0.9	92
76	BDNF: a regulator of learning and memory processes with clinical potential. <i>E-Neuroforum</i> , 2014, 5, 1-11.	0.2	27
77	Synaptic regulation of affective behaviors; role of BDNF. <i>Neuropharmacology</i> , 2014, 76, 684-695.	2.0	89
78	Form follows function: BDNF and its involvement in sculpting the function and structure of synapses. <i>Neuropharmacology</i> , 2014, 76, 628-638.	2.0	191
79	Retrograde neurotrophin signaling through Tollo regulates synaptic growth in <i>Drosophila</i> . <i>Journal of Cell Biology</i> , 2014, 204, 1157-1172.	2.3	44
80	Valproic Acid: A New Candidate of Therapeutic Application for the Acute Central Nervous System Injuries. <i>Neurochemical Research</i> , 2014, 39, 1621-1633.	1.6	51
81	Induction of Neurotrophic and Differentiation Factors in Neural Stem Cells by Valproic Acid. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2014, 115, 216-221.	1.2	17
82	Therapeutic Potential of Genetically Modified Mesenchymal Stem Cells After Neonatal Hypoxic-Ischemic Brain Damage. <i>Molecular Therapy</i> , 2014, 22, 645-654.	3.7	46
83	Microglial modulation as a mechanism behind the promotion of central nervous system well-being by physical exercise. <i>Clinical and Experimental Neuroimmunology</i> , 2014, 5, 188-201.	0.5	11
84	Abnormality in serum levels of mature brain-derived neurotrophic factor (BDNF) and its precursor proBDNF in mood-stabilized patients with bipolar disorder: A study of two independent cohorts. <i>Journal of Affective Disorders</i> , 2014, 160, 1-9.	2.0	78
85	miR-1, miR-10b, miR-155, and miR-191 are novel regulators of BDNF. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 4443-4456.	2.4	146
86	The serotonin-BDNF duo: Developmental implications for the vulnerability to psychopathology. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 43, 35-47.	2.9	143
87	A blueprint for research on Shankopathies: A view from research on autism spectrum disorder. <i>Developmental Neurobiology</i> , 2014, 74, 85-112.	1.5	12
88	The Genetics of Obesity. , 2014, , .		0
89	Stress and CRF gate neural activation of BDNF in the mesolimbic reward pathway. <i>Nature Neuroscience</i> , 2014, 17, 27-29.	7.1	178
90	Excitatory GABA induces BDNF transcription via CRTC1 and phosphorylated CREB-related pathways in immature cortical cells. <i>Journal of Neurochemistry</i> , 2014, 131, 134-146.	2.1	29
91	Pro-neurotrophins, sortilin, and nociception. <i>European Journal of Neuroscience</i> , 2014, 39, 363-374.	1.2	44

#	ARTICLE	IF	CITATIONS
92	Acute infusion of brain-derived neurotrophic factor in the insular cortex promotes conditioned taste aversion extinction. <i>Neurobiology of Learning and Memory</i> , 2014, 116, 139-144.	1.0	18
93	Molecular self-assembly guides the fabrication of peptide nanofiber scaffolds for nerve repair. <i>RSC Advances</i> , 2014, 4, 23610-23621.	1.7	28
94	Advancements of Mass Spectrometry in Biomedical Research. <i>Advances in Experimental Medicine and Biology</i> , 2014, , .	0.8	6
95	Persistent Inflammation-induced Up-regulation of Brain-derived Neurotrophic Factor (BDNF) Promotes Synaptic Delivery of $\beta$ -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid Receptor GluA1 Subunits in Descending Pain Modulatory Circuits. <i>Journal of Biological Chemistry</i> , 2014, 289, 22196-22204.	1.6	30
96	Metalloproteinase inhibition prevents inhibitory synapse reorganization and seizure genesis. <i>Neurobiology of Disease</i> , 2014, 70, 21-31.	2.1	62
97	Increases in mature brain-derived neurotrophic factor protein in the frontal cortex and basal forebrain during chronic sleep restriction in rats: Possible role in initiating allostatic adaptation. <i>Neuroscience</i> , 2014, 277, 174-183.	1.1	23
98	Proteomic Approaches to Dissect Neuronal Signaling Pathways. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 499-508.	0.8	1
99	Presynaptic Modulation of Spinal Nociceptive Transmission by Glial Cell Line-Derived Neurotrophic Factor (GDNF). <i>Journal of Neuroscience</i> , 2014, 34, 13819-13833.	1.7	27
100	A high throughput siRNA screen identifies genes that regulate mannose 6-phosphate receptor trafficking. <i>Journal of Cell Science</i> , 2014, 127, 5079-92.	1.2	15
101	Synapse rearrangements upon learning: from divergent "sparse connectivity to dedicated sub-circuits. <i>Trends in Neurosciences</i> , 2014, 37, 604-614.	4.2	76
102	Genetic Conflicts: Stronger Centromeres Win Tug-of-War in Female Meiosis. <i>Current Biology</i> , 2014, 24, R966-R968.	1.8	10
103	Neurodevelopment: A Novel Role for Activity in Shaping Retinal Circuits. <i>Current Biology</i> , 2014, 24, R964-R966.	1.8	1
104	Soluble Adenylyl Cyclase Is Necessary and Sufficient to Overcome the Block of Axonal Growth by Myelin-Associated Factors. <i>Journal of Neuroscience</i> , 2014, 34, 9281-9289.	1.7	22
105	The association of the BDNF Val66Met polymorphism and the hippocampal volumes in healthy humans: A joint meta-analysis of published and new data. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 42, 267-278.	2.9	59
106	BDNF Val66Met polymorphism and antipsychotic-induced tardive dyskinesia occurrence and severity: A meta-analysis. <i>Schizophrenia Research</i> , 2014, 152, 365-372.	1.1	20
107	New Strategies in the Management of Guillain-Barré Syndrome. <i>Clinical Reviews in Allergy and Immunology</i> , 2014, 47, 274-288.	2.9	13
108	Correlation between n-3 polyunsaturated fatty acids consumption and BDNF peripheral levels in adolescents. <i>Lipids in Health and Disease</i> , 2014, 13, 44.	1.2	24
109	BDNF in fragile X syndrome. <i>Neuropharmacology</i> , 2014, 76, 729-736.	2.0	60

#	ARTICLE	IF	CITATIONS
110	Metrifonate, like acetylcholine, up-regulates neurotrophic activity of cultured rat astrocytes. <i>Pharmacological Reports</i> , 2014, 66, 618-623.	1.5	10
111	Control of neuronal morphology and connectivity: Emerging developmental roles for gap junctional proteins. <i>FEBS Letters</i> , 2014, 588, 1470-1479.	1.3	14
112	Brain-derived neurotrophic factor in the airways. , 2014, 143, 74-86.		78
113	A novel analog of olanzapine linked to sarcosinyl moiety (PGW5) demonstrates high efficacy and good safety profile in mouse models of schizophrenia. <i>European Neuropsychopharmacology</i> , 2014, 24, 425-436.	0.3	8
114	Shaping neurons: Long and short range effects of mature and proBDNF signalling upon neuronal structure. <i>Neuropharmacology</i> , 2014, 76, 603-609.	2.0	98
115	BDNF serum levels in subjects developing or not post-traumatic stress disorder after trauma exposure. <i>Brain and Cognition</i> , 2014, 84, 118-122.	0.8	74
116	Coordinated Regulation of Dendrite Arborization by Epigenetic Factors CDYL and EZH2. <i>Journal of Neuroscience</i> , 2014, 34, 4494-4508.	1.7	57
117	Spike-timing-dependent BDNF secretion and synaptic plasticity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130132.	1.8	39
118	MicroRNAs: Novel Mechanism Involved in the Pathogenesis of Microwave Exposure on Ratsâ€™ Hippocampus. <i>Journal of Molecular Neuroscience</i> , 2014, 53, 222-230.	1.1	19
119	Neurotrophins in the ventral tegmental area: Role in social stress, mood disorders and drug abuse. <i>Neuroscience</i> , 2014, 282, 122-138.	1.1	38
120	BDNF: No gain without pain?. <i>Neuroscience</i> , 2014, 283, 107-123.	1.1	98
121	Non-Cell-Autonomous Mechanism of Activity-Dependent Neurotransmitter Switching. <i>Neuron</i> , 2014, 82, 1004-1016.	3.8	38
122	Elevated BDNF mRNA expression in the medial prefrontal cortex after d-amphetamine reinstated conditioned place preference in rats. <i>Neuroscience</i> , 2014, 263, 88-95.	1.1	14
123	Pre- and postsynaptic twists in BDNF secretion and action in synaptic plasticity. <i>Neuropharmacology</i> , 2014, 76, 610-627.	2.0	207
124	BDNF-induced local protein synthesis and synaptic plasticity. <i>Neuropharmacology</i> , 2014, 76, 639-656.	2.0	492
125	New insight in expression, transport, and secretion of brain-derived neurotrophic factor: Implications in brain-related diseases. <i>World Journal of Biological Chemistry</i> , 2014, 5, 409.	1.7	132
126	BDNF: a regulator of learning and memory processes with clinical potential. <i>E-Neuroforum</i> , 2014, 20, 1-11.	0.2	4
127	<i>Bdnf</i> DNA methylation modifications in the hippocampus and amygdala of male and female rats exposed to different caregiving environments outside the homecage. <i>Developmental Psychobiology</i> , 2014, 56, 1755-1763.	0.9	79



#	ARTICLE	IF	CITATIONS
129	Dynamic expression of miR-206-3p during mouse skin development is independent of keratinocyte differentiation. <i>Molecular Medicine Reports</i> , 2015, 12, 8113-8120.	1.1	6
130	Definition of a Bidirectional Activity-Dependent Pathway Involving BDNF and Narp. <i>Cell Reports</i> , 2015, 13, 1747-1756.	2.9	30
131	Glucocorticoid affects dendritic transport of BDNF-containing vesicles. <i>Scientific Reports</i> , 2015, 5, 12684.	1.6	12
132	FNDC5/Irisin " Their Role in the Nervous System and as a Mediator for Beneficial Effects of Exercise on the Brain. <i>Brain Plasticity</i> , 2015, 1, 55-61.	1.9	98
133	High Throughput Characterization of Adult Stem Cells Engineered for Delivery of Therapeutic Factors for Neuroprotective Strategies. <i>Journal of Visualized Experiments</i> , 2015, , e52242.	0.2	2
134	PLD1 participates in BDNF-induced signalling in cortical neurons. <i>Scientific Reports</i> , 2015, 5, 14778.	1.6	27
135	Acquisition of a High-precision Skilled Forelimb Reaching Task in Rats. <i>Journal of Visualized Experiments</i> , 2015, , e53010.	0.2	13
136	Effects of BDNF polymorphism and physical activity on episodic memory in the elderly: a cross sectional study. <i>European Review of Aging and Physical Activity</i> , 2015, 12, 15.	1.3	49
137	Late prenatal immune activation causes hippocampal deficits in the absence of persistent inflammation across aging. <i>Journal of Neuroinflammation</i> , 2015, 12, 221.	3.1	100
138	Zonisamide reduces nigrostriatal dopaminergic neurodegeneration in a mouse genetic model of Parkinson's disease. <i>Journal of Neurochemistry</i> , 2015, 134, 371-381.	2.1	22
139	Investigating the associations between polymorphisms in the NTRK2 and NGFR genes and completed suicide in the Slovenian sample. <i>Psychiatric Genetics</i> , 2015, 25, 241-248.	0.6	6
140	<i>Fndc5</i> overexpression facilitated neural differentiation of mouse embryonic stem cells. <i>Cell Biology International</i> , 2015, 39, 629-637.	1.4	46
141	Targeting the CD80/CD86 costimulatory pathway with CTLA4-Ig directs microglia toward a repair phenotype and promotes axonal outgrowth. <i>Glia</i> , 2015, 63, 2298-2312.	2.5	24
142	Stimulation of synthesis and release of brain-derived neurotropic factor from intestinal smooth muscle cells by substance P and pituitary adenylate cyclase-activating peptide. <i>Neurogastroenterology and Motility</i> , 2015, 27, 1162-1174.	1.6	24
143	Downstream Consequences of Exercise Through the Action of BDNF. <i>Brain Plasticity</i> , 2015, 1, 143-148.	1.9	31
144	Effects of Ethanol on the Expression Level of Various BDNF mRNA Isoforms and Their Encoded Protein in the Hippocampus of Adult and Embryonic Rats. <i>International Journal of Molecular Sciences</i> , 2015, 16, 30422-30437.	1.8	11
145	Impact of an additional chronic BDNF reduction on learning performance in an Alzheimer mouse model. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 58.	1.0	32
146	Characterizing autism spectrum disorders by key biochemical pathways. <i>Frontiers in Neuroscience</i> , 2015, 9, 313.	1.4	55

#	ARTICLE	IF	CITATIONS
147	Distinct synaptic and neurochemical changes to the granule cell-CA3 projection in Bassoon mutant mice. <i>Frontiers in Synaptic Neuroscience</i> , 2015, 7, 18.	1.3	5
148	In utero Head Circumference is Associated with Childhood Allergy. <i>Frontiers in Pediatrics</i> , 2015, 3, 73.	0.9	9
149	Altered Fetal Head Growth in Preeclampsia: A Retrospective Cohort Proof-Of-Concept Study. <i>Frontiers in Pediatrics</i> , 2015, 3, 83.	0.9	5
151	PACAP Enhances Axon Outgrowth in Cultured Hippocampal Neurons to a Comparable Extent as BDNF. <i>PLoS ONE</i> , 2015, 10, e0120526.	1.1	45
152	Hippocampal Synaptic Expansion Induced by Spatial Experience in Rats Correlates with Improved Information Processing in the Hippocampus. <i>PLoS ONE</i> , 2015, 10, e0132676.	1.1	9
153	Dynamic Trk and G Protein Signalings Regulate Dopaminergic Neurodifferentiation in Human Trophoblast Stem Cells. <i>PLoS ONE</i> , 2015, 10, e0143852.	1.1	10
154	Neuromodulatory Effect of $G_{i/s}$ - or $G_{i/q}$ -Coupled G-Protein-Coupled Receptor on NMDA Receptor Selectively Activates the NMDA Receptor/ $Ca^{2+}$ /Calcineurin/cAMP Response Element-Binding Protein-Regulated Transcriptional Coactivator 1 Pathway to Effectively Induce Brain-Derived Neurotrophic Factor Expression in Neurons. <i>Journal of Neuroscience</i> , 2015, 35, 5606-5624.	1.7	53
155	Trophic Factor-Induced Activity "Signature"™ Regulates the Functional Expression of Postsynaptic Excitatory Acetylcholine Receptors Required for Synaptogenesis. <i>Scientific Reports</i> , 2015, 5, 9523.	1.6	10
156	Spatiotemporal dynamics of traction forces show three contraction centers in migratory neurons. <i>Journal of Cell Biology</i> , 2015, 209, 759-774.	2.3	47
157	BDNF and TrkB-Mediated Signalling Supports Processes of Metaplasticity and Long-Term Memory Formation. , 2015, , 157-171.		0
158	Brain-Derived Neurotrophic Factor Inhibits Calcium Channel Activation, Exocytosis, and Endocytosis at a Central Nerve Terminal. <i>Journal of Neuroscience</i> , 2015, 35, 4676-4682.	1.7	28
159	Autocrine Action of BDNF on Dendrite Development of Adult-Born Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2015, 35, 8384-8393.	1.7	115
160	Exocytic and endocytic membrane trafficking in axon development. <i>Development Growth and Differentiation</i> , 2015, 57, 291-304.	0.6	52
161	Ablation of intact hypothalamic and/or hindbrain TrkB signaling leads to perturbations in energy balance. <i>Molecular Metabolism</i> , 2015, 4, 867-880.	3.0	23
162	Involvement of the monoamine system in antidepressant-like properties of 4-(1-phenyl-1h-pyrazol-4-ylmethyl)-piperazine-1-carboxylic acid ethyl ester. <i>Life Sciences</i> , 2015, 143, 187-193.	2.0	11
163	The structure of nerve growth factor in complex with lysophosphatidylinositol. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 906-912.	0.4	9
165	Val66Met BDNF Gene Polymorphism Influences Human Motor Cortex Plasticity in Acute Stroke. <i>Brain Stimulation</i> , 2015, 8, 92-96.	0.7	64
166	Brain-derived neurotrophic factor as a driving force behind neuroplasticity in neuropathic and central sensitization pain: a new therapeutic target?. <i>Expert Opinion on Therapeutic Targets</i> , 2015, 19, 565-576.	1.5	137

#	ARTICLE	IF	CITATIONS
167	Val66Met polymorphism of brain-derived neurotrophic factor is associated with idiopathic dystonia. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 575-577.	0.8	11
168	Chronically Restricted or Disrupted Sleep as a Causal Factor in the Development of Depression. <i>Current Topics in Behavioral Neurosciences</i> , 2015, 25, 459-481.	0.8	79
169	Epigenetic mechanisms underlying the role of brain-derived neurotrophic factor in depression and response to antidepressants. <i>Journal of Experimental Biology</i> , 2015, 218, 21-31.	0.8	82
170	Intervention with 7,8-dihydroxyflavone blocks further striatal terminal loss and restores motor deficits in a progressive mouse model of Parkinson's disease. <i>Neuroscience</i> , 2015, 290, 454-471.	1.1	42
171	NGF but not BDNF overexpression protects hippocampal LTP from beta-amyloid-induced impairment. <i>Neuroscience</i> , 2015, 289, 114-122.	1.1	18
172	Upregulation of $\beta$ expression during neuronal maturation promotes axonal and dendritic development in mouse embryonic neocortex. <i>Genes To Cells</i> , 2015, 20, 108-120.	0.5	13
173	The paraventricular thalamus controls a central amygdala fear circuit. <i>Nature</i> , 2015, 519, 455-459.	13.7	416
174	Individual differences in the effects of prenatal stress exposure in rodents. <i>Neurobiology of Stress</i> , 2015, 1, 100-108.	1.9	50
175	$\beta$ -Alanine ingestion increases muscle carnosine content and combat specific performance in soldiers. <i>Amino Acids</i> , 2015, 47, 627-636.	1.2	35
176	The CB1 cannabinoid receptor signals striatal neuroprotection via a PI3K/Akt/mTORC1/BDNF pathway. <i>Cell Death and Differentiation</i> , 2015, 22, 1618-1629.	5.0	109
177	Lactoferrin Promotes Early Neurodevelopment and Cognition in Postnatal Piglets by Upregulating the BDNF Signaling Pathway and Polysialylation. <i>Molecular Neurobiology</i> , 2015, 52, 256-269.	1.9	86
178	BDNF Interacts with Endocannabinoids to Regulate Cocaine-Induced Synaptic Plasticity in Mouse Midbrain Dopamine Neurons. <i>Journal of Neuroscience</i> , 2015, 35, 4469-4481.	1.7	40
179	Serum pro-BDNF/BDNF as a treatment biomarker for response to docosahexaenoic acid in traumatized people vulnerable to developing psychological distress: a randomized controlled trial. <i>Translational Psychiatry</i> , 2015, 5, e596-e596.	2.4	29
180	Rare variants in the neurotrophin signaling pathway implicated in schizophrenia risk. <i>Schizophrenia Research</i> , 2015, 168, 421-428.	1.1	25
181	Recovery of motor coordination after exercise is correlated to enhancement of brain-derived neurotrophic factor in lactational vanadium-exposed rats. <i>Neuroscience Letters</i> , 2015, 600, 232-237.	1.0	10
182	SNAREs Controlling Vesicular Release of BDNF and Development of Callosal Axons. <i>Cell Reports</i> , 2015, 11, 1054-1066.	2.9	97
183	Chronic BDNF deficiency leads to an age-dependent impairment in spatial learning. <i>Neurobiology of Learning and Memory</i> , 2015, 120, 52-60.	1.0	63
184	VGF and Its C-Terminal Peptide TLQP-62 Regulate Memory Formation in Hippocampus via a BDNF-TrkB-Dependent Mechanism. <i>Journal of Neuroscience</i> , 2015, 35, 10343-10356.	1.7	91

#	ARTICLE	IF	CITATIONS
185	Fingolimod (FTY720) enhances hippocampal synaptic plasticity and memory in Huntington's disease by preventing p75 <sup>NTR</sup> up-regulation and astrocyte-mediated inflammation. <i>Human Molecular Genetics</i> , 2015, 24, 4958-4970.	1.4	107
186	BDNF Val66Met, stress, and positive mothering: Differential susceptibility model of adolescent trait anxiety. <i>Journal of Anxiety Disorders</i> , 2015, 34, 68-75.	1.5	11
187	Brain-derived neurotrophic factor. <i>Neurology</i> , 2015, 84, 1693-1704.	1.5	102
188	ERV enhances spatial learning and prevents the development of infarcts, accompanied by upregulated BDNF in the cortex. <i>Brain Research</i> , 2015, 1610, 110-123.	1.1	12
189	Brain-derived neurotrophic factor is required for axonal growth of selective groups of neurons in the arcuate nucleus. <i>Molecular Metabolism</i> , 2015, 4, 471-482.	3.0	35
190	Corticostriatal BDNF and alcohol addiction. <i>Brain Research</i> , 2015, 1628, 60-67.	1.1	118
191	Regulatory networks between neurotrophins and miRNAs in brain diseases and cancers. <i>Acta Pharmacologica Sinica</i> , 2015, 36, 149-157.	2.8	51
192	Distinct sets of FGF receptors sculpt excitatory and inhibitory synaptogenesis. <i>Development (Cambridge)</i> , 2015, 142, 1818-1830.	1.2	42
193	Lost in translation. <i>Progress in Brain Research</i> , 2015, 218, 413-434.	0.9	50
194	Rett Syndrome: Reaching for Clinical Trials. <i>Neurotherapeutics</i> , 2015, 12, 631-640.	2.1	35
195	Lasting modulation of in vitro oscillatory activity with weak direct current stimulation. <i>Journal of Neurophysiology</i> , 2015, 113, 1334-1341.	0.9	46
196	Sensory Deprivation Disrupts Homeostatic Regeneration of Newly Generated Olfactory Sensory Neurons after Injury in Adult Mice. <i>Journal of Neuroscience</i> , 2015, 35, 2657-2673.	1.7	61
197	Sleep deprivation and hippocampal vulnerability: changes in neuronal plasticity, neurogenesis and cognitive function. <i>Neuroscience</i> , 2015, 309, 173-190.	1.1	233
198	Flavonoid Chrysin prevents age-related cognitive decline via attenuation of oxidative stress and modulation of BDNF levels in aged mouse brain. <i>Pharmacology Biochemistry and Behavior</i> , 2015, 134, 22-30.	1.3	105
199	BDNF Val66Met polymorphism and hippocampal volume in neuropsychiatric disorders: A systematic review and meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 55, 107-118.	2.9	118
200	Androgen-dependent loss of muscle BDNF mRNA in two mouse models of SBMA. <i>Experimental Neurology</i> , 2015, 269, 224-232.	2.0	15
201	Brain-derived neurotrophic factor: a biomarker for obsessive-compulsive disorder?. <i>Frontiers in Neuroscience</i> , 2015, 9, 134.	1.4	10
202	BDNF and cortisol levels in children with or without post-traumatic stress disorder after sustaining sexual abuse. <i>Psychoneuroendocrinology</i> , 2015, 56, 45-51.	1.3	25

#	ARTICLE	IF	CITATIONS
203	Tuning the Brain-Gut Axis in Health and Disease. <i>Current Stem Cell Reports</i> , 2015, 1, 60-66.	0.7	0
204	Autism-like syndrome is induced by pharmacological suppression of BET proteins in young mice. <i>Journal of Experimental Medicine</i> , 2015, 212, 1771-1781.	4.2	51
205	Developmental specification of metabolic circuitry. <i>Frontiers in Neuroendocrinology</i> , 2015, 39, 38-51.	2.5	19
206	Mechanisms of Action and Persistent Neuroplasticity by Drugs of Abuse. <i>Pharmacological Reviews</i> , 2015, 67, 872-1004.	7.1	125
207	BDNF pro-peptide actions facilitate hippocampal LTD and are altered by the common BDNF polymorphism Val66Met. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3067-74.	3.3	113
208	Rapid Modulation of Protein Expression in the Rat Hippocampus Following Deep Brain Stimulation of the Fornix. <i>Brain Stimulation</i> , 2015, 8, 1058-1064.	0.7	66
209	Synapse-specific IL-1 receptor subunit reconfiguration augments vulnerability to IL-1 $\beta$ in the aged hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5078-87.	3.3	95
210	BDNF Reduces Toxic Extrasynaptic NMDA Receptor Signaling via Synaptic NMDA Receptors and Nuclear-Calcium-Induced Transcription of <i>inhba/Activin A</i> . <i>Cell Reports</i> , 2015, 12, 1353-1366.	2.9	71
211	Glutamate Stimulates Local Protein Synthesis in the Axons of Rat Cortical Neurons by Activating $\alpha$ -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptors and Metabotropic Glutamate Receptors. <i>Journal of Biological Chemistry</i> , 2015, 290, 20748-20760.	1.6	31
212	Neurotrophin-3 Enhances the Synaptic Organizing Function of TrkC-Protein Tyrosine Phosphatase $\hat{A}$ in Rat Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2015, 35, 12425-12431.	1.7	48
213	Activity-dependent BDNF release via endocytic pathways is regulated by synaptotagmin-6 and complexin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4475-84.	3.3	70
214	Intracarotid Infusion of Mesenchymal Stem Cells in an Animal Model of Parkinson's Disease, Focusing on Cell Distribution and Neuroprotective and Behavioral Effects. <i>Stem Cells Translational Medicine</i> , 2015, 4, 1073-1085.	1.6	52
215	No longer falling on deaf ears: Mechanisms of degeneration and regeneration of cochlear ribbon synapses. <i>Hearing Research</i> , 2015, 329, 1-10.	0.9	30
216	Plasma brain-derived neurotrophic factor levels in patients suffering from post-traumatic stress disorder. <i>Psychiatry Research</i> , 2015, 229, 365-369.	1.7	15
217	Examining the levels of BDNF and cortisol in children and adolescent victims of sexual abuse—a preliminary study. <i>Comprehensive Psychiatry</i> , 2015, 61, 23-27.	1.5	15
218	Self-amplified BDNF transcription is a regulatory system for synaptic maturation in cultured cortical neurons. <i>Neurochemistry International</i> , 2015, 91, 55-61.	1.9	13
219	Neuronal correlates of depression. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 4825-4848.	2.4	101
220	Nimodipine Activates TrkB Neurotrophin Receptors and Induces Neuroplastic and Neuroprotective Signaling Events in the Mouse Hippocampus and Prefrontal Cortex. <i>Cellular and Molecular Neurobiology</i> , 2015, 35, 189-196.	1.7	26

#	ARTICLE	IF	CITATIONS
221	Methamphetamine differentially affects BDNF and cell death factors in anatomically defined regions of the hippocampus. <i>Neuroscience</i> , 2015, 286, 97-108.	1.1	45
222	The organization of the stress system and its dysregulation in depressive illness. <i>Molecular Psychiatry</i> , 2015, 20, 32-47.	4.1	470
223	Regulation of hippocampal synaptic plasticity by BDNF. <i>Brain Research</i> , 2015, 1621, 82-101.	1.1	325
224	The role of epigenetic regulation in learning and memory. <i>Experimental Neurology</i> , 2015, 268, 30-36.	2.0	61
225	Neurodevelopment, GABA System Dysfunction, and Schizophrenia. <i>Neuropsychopharmacology</i> , 2015, 40, 190-206.	2.8	172
226	APOE and BDNF polymorphisms moderate amyloid $\beta$ -related cognitive decline in preclinical Alzheimer's disease. <i>Molecular Psychiatry</i> , 2015, 20, 1322-1328.	4.1	105
227	The Effects of Poststroke Aerobic Exercise on Neuroplasticity: A Systematic Review of Animal and Clinical Studies. <i>Translational Stroke Research</i> , 2015, 6, 13-28.	2.3	110
228	BDNF contributes to the development of neuropathic pain by induction of spinal long-term potentiation via SHP2 associated GluN2B-containing NMDA receptors activation in rats with spinal nerve ligation. <i>Neurobiology of Disease</i> , 2015, 73, 428-451.	2.1	50
230	MicroRNA-30a-5p in the prefrontal cortex controls the transition from moderate to excessive alcohol consumption. <i>Molecular Psychiatry</i> , 2015, 20, 1240-1250.	4.1	65
231	Association Between Smoking, Nicotine Dependence, and BDNF Val66Met Polymorphism with BDNF Concentrations in Serum. <i>Nicotine and Tobacco Research</i> , 2015, 17, 323-329.	1.4	67
232	Withdrawal of BDNF from hippocampal cultures leads to changes in genes involved in synaptic function. <i>Developmental Neurobiology</i> , 2015, 75, 173-192.	1.5	38
233	Mesenchymal Stem Cells Improve Motor Functions and Decrease Neurodegeneration in Ataxic Mice. <i>Molecular Therapy</i> , 2015, 23, 130-138.	3.7	38
234	Germ-Free Animals. , 2016, , 109-140.		1
235	Modulations of Mammalian Brain Functions by Antidepressant Drugs: Role of Some Phytochemicals as Prospective Antidepressants. <i>Evidence Based Medicine and Practice</i> , 2016, 02, .	0.0	1
236	No association between BDNF Val66Met polymorphism and treatment response in obsessive-compulsive disorder in the Japanese population. <i>Neuropsychiatric Disease and Treatment</i> , 2016, 12, 611.	1.0	6
237	Central monoaminergic systems are a site of convergence of signals conveying the experience of exercise to brain circuits involved in cognition and emotional behavior. <i>Environmental Epigenetics</i> , 2016, 62, 293-306.	0.9	17
238	Are the changes in the peripheral brain-derived neurotrophic factor levels due to platelet activation?. <i>World Journal of Psychiatry</i> , 2016, 6, 84.	1.3	119
239	Prolongation of Relaxation Time in Extraocular Muscles With Brain Derived Neurotrophic Factor in Adult Rabbit. , 2016, 57, 5834.		7

#	ARTICLE	IF	CITATIONS
240	Mammalian Cochlear Hair Cell Regeneration and Ribbon Synapse Reformation. <i>Neural Plasticity</i> , 2016, 2016, 1-9.	1.0	12
241	Effects of a Home-Based Family-Centred Early Habilitation Program on Neurobehavioural Outcomes of Very Preterm Born Infants: A Retrospective Cohort Study. <i>Neural Plasticity</i> , 2016, 2016, 1-10.	1.0	7
242	Amyloid-Beta Induced Changes in Vesicular Transport of BDNF in Hippocampal Neurons. <i>Neural Plasticity</i> , 2016, 2016, 1-15.	1.0	26
243	Chronic Mild Stress Modulates Activity-Dependent Transcription of BDNF in Rat Hippocampal Slices. <i>Neural Plasticity</i> , 2016, 2016, 1-11.	1.0	17
244	Brain derived neurotrophic factor mediated learning, fear acquisition and extinction as targets for developing novel treatments for anxiety. <i>Jornal Brasileiro De Psiquiatria</i> , 2016, 65, 251-261.	0.2	0
245	Exercise promotes the expression of brain derived neurotrophic factor (BDNF) through the action of the ketone body $\beta$ -hydroxybutyrate. <i>ELife</i> , 2016, 5, .	2.8	475
246	Social Plasticity Relies on Different Neuroplasticity Mechanisms across the Brain Social Decision-Making Network in Zebrafish. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 16.	1.0	66
247	Computer Simulations Support a Morphological Contribution to BDNF Enhancement of Action Potential Generation. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 209.	1.8	3
248	Aerobic Exercise as a Tool to Improve Hippocampal Plasticity and Function in Humans: Practical Implications for Mental Health Treatment. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 373.	1.0	98
249	The Contradictory Effects of Neuronal Hyperexcitation on Adult Hippocampal Neurogenesis. <i>Frontiers in Neuroscience</i> , 2016, 10, 74.	1.4	22
250	The Role of Astrocytic Aquaporin-4 in Synaptic Plasticity and Learning and Memory. <i>Frontiers in Integrative Neuroscience</i> , 2016, 10, 8.	1.0	72
251	Long Non-coding RNA in Neurons: New Players in Early Response to BDNF Stimulation. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 15.	1.4	14
252	Cerebellar Expression of the Neurotrophin Receptor p75 in Naked-Ataxia Mutant Mouse. <i>International Journal of Molecular Sciences</i> , 2016, 17, 115.	1.8	17
253	<i>Lycopersicon esculentum</i> Extract Enhances Cognitive Function and Hippocampal Neurogenesis in Aged Mice. <i>Nutrients</i> , 2016, 8, 679.	1.7	11
254	A Novel, Noncanonical BMP Pathway Modulates Synapse Maturation at the <i>Drosophila</i> Neuromuscular Junction. <i>PLoS Genetics</i> , 2016, 12, e1005810.	1.5	45
255	A <i>Jacob/Nsmf</i> Gene Knockout Results in Hippocampal Dysplasia and Impaired BDNF Signaling in Dendritogenesis. <i>PLoS Genetics</i> , 2016, 12, e1005907.	1.5	36
256	Prenatal Cocaine Exposure Upregulates BDNF-TrkB Signaling. <i>PLoS ONE</i> , 2016, 11, e0160585.	1.1	17
257	Mammalian Target of Rapamycin (mTOR), Aging, Neuroscience, and Their Association with Aging-Related Diseases. , 2016, , 185-203.		0

#	ARTICLE	IF	CITATIONS
258	Trophic Factors in the Therapeutic Challenge Against ALS: Current Research Directions. , 2016, , .		1
259	Deletion of $CB_2$ cannabinoid receptors reduces synaptic transmission and long-term potentiation in the mouse hippocampus. <i>Hippocampus</i> , 2016, 26, 275-281.	0.9	65
260	Epigenetic Manipulation of Brain-derived Neurotrophic Factor Improves Memory Deficiency Induced by Neonatal Anesthesia in Rats. <i>Anesthesiology</i> , 2016, 124, 624-640.	1.3	60
261	Maladaptive choices by defeated rats: link between rapid approach to social threat and escalated cocaine self-administration. <i>Psychopharmacology</i> , 2016, 233, 3173-3186.	1.5	7
262	Altered neurotrophic factors' expression profiles in the nucleus of the solitary tract of spontaneously hypertensive rats. <i>Acta Physiologica</i> , 2016, 216, 346-357.	1.8	7
263	Association of Arsenic Methylation Capacity with Developmental Delays and Health Status in Children: A Prospective Case-Control Trial. <i>Scientific Reports</i> , 2016, 6, 37287.	1.6	24
264	Focused ultrasound-enhanced intranasal brain delivery of brain-derived neurotrophic factor. <i>Scientific Reports</i> , 2016, 6, 28599.	1.6	52
265	Neuropeptides, Microbiota, and Behavior. <i>International Review of Neurobiology</i> , 2016, 131, 67-89.	0.9	41
266	Brain-derived neurotrophic factor and early-life stress: Multifaceted interplay. <i>Journal of Biosciences</i> , 2016, 41, 751-758.	0.5	37
267	A Chinese herbal decoction, reformulated from Kai-Xin-San, relieves the depression-like symptoms in stressed rats and induces neurogenesis in cultured neurons. <i>Scientific Reports</i> , 2016, 6, 30014.	1.6	45
268	Kalirin is required for BDNF-TrkB stimulated neurite outgrowth and branching. <i>Neuropharmacology</i> , 2016, 107, 227-238.	2.0	29
269	Brain-derived Neurotrophic Factor in Megakaryocytes. <i>Journal of Biological Chemistry</i> , 2016, 291, 9872-9881.	1.6	149
270	Regulation of Energy Balance via BDNF Expressed in Nonparaventricular Hypothalamic Neurons. <i>Molecular Endocrinology</i> , 2016, 30, 494-503.	3.7	27
271	Neurotrophic factor control of satiety and body weight. <i>Nature Reviews Neuroscience</i> , 2016, 17, 282-292.	4.9	169
272	Prefrontal cortical BDNF: A regulatory key in cocaine- and food-reinforced behaviors. <i>Neurobiology of Disease</i> , 2016, 91, 326-335.	2.1	33
273	A novel isoquinoline compound abolishes chronic unpredictable mild stress-induced depressive-like behavior in mice. <i>Behavioural Brain Research</i> , 2016, 307, 73-83.	1.2	34
274	Serum BDNF levels before and after the development of mood disorders: a case-control study in a population cohort. <i>Translational Psychiatry</i> , 2016, 6, e782-e782.	2.4	28
275	Hydroxysafflor yellow A increases BDNF and NMDARs in the hippocampus in a vascular dementia rat model. <i>Brain Research</i> , 2016, 1642, 419-425.	1.1	33



#	ARTICLE	IF	CITATIONS
276	Neurotrophin-3 Regulates Synapse Development by Modulating TrkC-PTP $\beta$ Synaptic Adhesion and Intracellular Signaling Pathways. <i>Journal of Neuroscience</i> , 2016, 36, 4816-4831.	1.7	56
277	Hyperbaric oxygen preserves neurotrophic activity of carbon monoxide-exposed astrocytes. <i>Toxicology Letters</i> , 2016, 253, 1-6.	0.4	9
278	Photochemical Approaches to Complex Chemotypes: Applications in Natural Product Synthesis. <i>Chemical Reviews</i> , 2016, 116, 9683-9747.	23.0	792
279	Synaptic alterations associated with depression and schizophrenia: potential as a therapeutic target. <i>Expert Opinion on Therapeutic Targets</i> , 2016, 20, 1195-1207.	1.5	33
280	The Val66Met BDNF Polymorphism Has No Effect on Cognitive Deficit in Schizophrenia Patients or the Risk of This Disease in Their Relatives. <i>Neuroscience and Behavioral Physiology</i> , 2016, 46, 534-538.	0.2	0
281	Acute rosmarinic acid treatment enhances long-term potentiation, BDNF and GluR-2 protein expression, and cell survival rate against scopolamine challenge in rat organotypic hippocampal slice cultures. <i>Biochemical and Biophysical Research Communications</i> , 2016, 475, 44-50.	1.0	15
282	Selective synaptic remodeling of amygdalocortical connections associated with fear memory. <i>Nature Neuroscience</i> , 2016, 19, 1348-1355.	7.1	140
283	TRiC subunits enhance BDNF axonal transport and rescue striatal atrophy in Huntington's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5655-64.	3.3	74
284	Peri-Synaptic Glia Recycles Brain-Derived Neurotrophic Factor for LTP Stabilization and Memory Retention. <i>Neuron</i> , 2016, 92, 873-887.	3.8	78
285	Pharmacological Bypass of Cockayne Syndrome B Function in Neuronal Differentiation. <i>Cell Reports</i> , 2016, 14, 2554-2561.	2.9	18
286	The Neurotrophic Factor Receptor p75 in the Rat Dorsolateral Striatum Drives Excessive Alcohol Drinking. <i>Journal of Neuroscience</i> , 2016, 36, 10116-10127.	1.7	41
287	Systematic optimization of an engineered hydrogel allows for selective control of human neural stem cell survival and differentiation after transplantation in the stroke brain. <i>Biomaterials</i> , 2016, 105, 145-155.	5.7	184
288	Transplantation of tissue engineering neural network and formation of neuronal relay into the transected rat spinal cord. <i>Biomaterials</i> , 2016, 109, 40-54.	5.7	55
289	Pro $\alpha$ region engineering for improved yeast display and secretion of brain derived neurotrophic factor. <i>Biotechnology Journal</i> , 2016, 11, 425-436.	1.8	6
290	Cellular and molecular mechanisms regulating neuronal growth by brain-derived neurotrophic factor. <i>Cytoskeleton</i> , 2016, 73, 612-628.	1.0	110
291	The requirement of BDNF for hippocampal synaptic plasticity is experience-dependent. <i>Hippocampus</i> , 2016, 26, 739-751.	0.9	60
292	Evidence that some long-lasting effects of direct current in the rat spinal cord are activity-independent. <i>European Journal of Neuroscience</i> , 2016, 43, 1400-1411.	1.2	20
293	The Potential of Gonadal Hormone Signalling Pathways as Therapeutics for Dementia. <i>Journal of Molecular Neuroscience</i> , 2016, 60, 336-348.	1.1	6

#	ARTICLE	IF	CITATIONS
294	Membrane Trafficking Mechanisms: Exocytosis and Endocytosis in Dendrites. , 2016, , 77-109.		1
295	The Gut-Brain Axis, BDNF, NMDA and CNS Disorders. <i>Neurochemical Research</i> , 2016, 41, 2819-2835.	1.6	172
296	Stochastic Subcellular Organization of Dense-Core Vesicles Revealed by Point Pattern Analysis. <i>Biophysical Journal</i> , 2016, 111, 852-863.	0.2	4
297	An electrophysiological study on the effects of BDNF and FGF2 on voltage dependent Ca <sup>2+</sup> currents in developing human striatal primordium. <i>Molecular and Cellular Neurosciences</i> , 2016, 75, 50-62.	1.0	9
298	Tuning Specific Translation in Cancer Metastasis and Synaptic Memory: Control at the MNK-eIF4E Axis. <i>Trends in Biochemical Sciences</i> , 2016, 41, 847-858.	3.7	84
299	Epigenetic regulation of cognition: A circumscribed review of the field. <i>Development and Psychopathology</i> , 2016, 28, 1285-1304.	1.4	33
300	Adenosine A1 receptor antagonist mitigates deleterious effects of sleep deprivation on adult neurogenesis and spatial reference memory in rats. <i>Neuroscience</i> , 2016, 337, 107-116.	1.1	28
301	Transcriptional Regulation of Brain-derived Neurotrophic Factor Coding Exon IX. <i>Journal of Biological Chemistry</i> , 2016, 291, 22583-22593.	1.6	18
302	Seeking an objective diagnosis of depression. <i>Biomarkers in Medicine</i> , 2016, 10, 861-875.	0.6	32
303	Xanthoceras sorbifolia extracts ameliorate dendritic spine deficiency and cognitive decline via upregulation of BDNF expression in a rat model of Alzheimer's disease. <i>Neuroscience Letters</i> , 2016, 629, 208-214.	1.0	40
304	Neurotrophin-mimicking peptides at the biointerface with gold respond to copper ion stimuli. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30595-30604.	1.3	7
305	Acupuncture for Depression: The Mechanism Underlying Its Therapeutic Effect. <i>Medical Acupuncture</i> , 2016, 28, 301-307.	0.3	3
306	Alteration of Selected Neurotrophic Factors and their Receptor Expression in Mouse Brain Response to Whole-Brain Irradiation. <i>Radiation Research</i> , 2016, 186, 489-507.	0.7	3
307	Serum Brain-Derived Neurotrophic Factors in Taiwanese Patients with Drug-Naïve First-Episode Major Depressive Disorder: Effects of Antidepressants. <i>International Journal of Neuropsychopharmacology</i> , 2016, 20, pyw096.	1.0	28
308	The Role of Posttraumatic Hypothermia in Preventing Dendrite Degeneration and Spine Loss after Severe Traumatic Brain Injury. <i>Scientific Reports</i> , 2016, 6, 37063.	1.6	30
309	Post-anesthesia AMPA receptor potentiation prevents anesthesia-induced learning and synaptic deficits. <i>Science Translational Medicine</i> , 2016, 8, 344ra85.	5.8	32
310	Physiological Roles of d-Serine in the Central Nervous System. , 2016, , 27-50.		1
311	Activation of the unfolded protein response promotes axonal regeneration after peripheral nerve injury. <i>Scientific Reports</i> , 2016, 6, 21709.	1.6	76

#	ARTICLE	IF	CITATIONS
312	Two proteolytic fragments of menin coordinate the nuclear transcription and postsynaptic clustering of neurotransmitter receptors during synaptogenesis between <i>Lymnaea</i> neurons. <i>Scientific Reports</i> , 2016, 6, 31779.	1.6	14
313	Emerging roles of ARHGAP33 in intracellular trafficking of TrkB and pathophysiology of neuropsychiatric disorders. <i>Nature Communications</i> , 2016, 7, 10594.	5.8	42
314	RAS signalling through PI3-Kinase controls cell migration via modulation of Reelin expression. <i>Nature Communications</i> , 2016, 7, 11245.	5.8	52
316	The Central Nervous System and the Gut Microbiome. <i>Cell</i> , 2016, 167, 915-932.	13.5	985
317	BDNF Signaling Promotes Vestibular Compensation by Increasing Neurogenesis and Remodeling the Expression of Potassium-Chloride Cotransporter KCC2 and GABAAR Receptor in the Vestibular Nuclei. <i>Journal of Neuroscience</i> , 2016, 36, 6199-6212.	1.7	47
318	Association of peripheral BDNF level with cognition, attention and behavior in preschool children. <i>Child and Adolescent Psychiatry and Mental Health</i> , 2016, 10, 10.	1.2	42
319	BDNF-ERK1/2 signaling pathway in ketamine-associated lower urinary tract symptoms. <i>International Urology and Nephrology</i> , 2016, 48, 1387-1393.	0.6	11
320	New Insights into the Biology of the BDNF Transcriptional <i>Code</i> <sup>TM</sup> . <i>Neuropsychopharmacology</i> , 2016, 41, 1941-1942.	2.8	0
321	Effects of the <i>BDNF</i> Val66Met Polymorphism on Gray Matter Volume in Typically Developing Children and Adolescents. <i>Cerebral Cortex</i> , 2016, 26, 1795-1803.	1.6	29
322	How a Piggyback Synapse Listens in to Tune Excitatory Terminals. <i>Neuron</i> , 2016, 90, 1143-1145.	3.8	0
323	Novel Targets for Drug Treatment in Psychiatry. , 2016, , 601-654.		0
324	Cul3-KLHL20 ubiquitin ligase: physiological functions, stress responses, and disease implications. <i>Cell Division</i> , 2016, 11, 5.	1.1	15
325	Cell type-specific roles of RAS-MAPK signaling in learning and memory: Implications in neurodevelopmental disorders. <i>Neurobiology of Learning and Memory</i> , 2016, 135, 13-21.	1.0	39
326	Enhancement of aging rat laryngeal muscles with endogenous growth factor treatment. <i>Physiological Reports</i> , 2016, 4, e12798.	0.7	4
327	Can irisin be a linker between physical activity and brain function?. <i>Biomolecular Concepts</i> , 2016, 7, 253-258.	1.0	35
328	Modulation of the NMDA Receptor Through Secreted Soluble Factors. <i>Molecular Neurobiology</i> , 2016, 53, 299-309.	1.9	17
329	AP-1 Transcription Factors Mediate BDNF-Positive Feedback Loop in Cortical Neurons. <i>Journal of Neuroscience</i> , 2016, 36, 1290-1305.	1.7	76
330	Ketamine Inhibits ATP-Evoked Exocytotic Release of Brain-Derived Neurotrophic Factor from Vesicles in Cultured Rat Astrocytes. <i>Molecular Neurobiology</i> , 2016, 53, 6882-6896.	1.9	46

#	ARTICLE	IF	CITATIONS
331	Screening of Transient Receptor Potential Canonical Channel Activators Identifies Novel Neurotrophic Piperazine Compounds. <i>Molecular Pharmacology</i> , 2016, 89, 348-363.	1.0	18
332	The autism-associated MET receptor tyrosine kinase engages early neuronal growth mechanism and controls glutamatergic circuits development in the forebrain. <i>Molecular Psychiatry</i> , 2016, 21, 925-935.	4.1	42
333	Indoleamine-2,3-dioxygenase mediates neurobehavioral alterations induced by an intracerebroventricular injection of amyloid- $\beta$ 1-42 peptide in mice. <i>Brain, Behavior, and Immunity</i> , 2016, 56, 363-377.	2.0	54
334	H3K9me3 Inhibition Improves Memory, Promotes Spine Formation, and Increases BDNF Levels in the Aged Hippocampus. <i>Journal of Neuroscience</i> , 2016, 36, 3611-3622.	1.7	101
335	Val66Met BDNF polymorphism is associated with Parkinson's disease cognitive impairment. <i>Neuroscience Letters</i> , 2016, 615, 88-91.	1.0	36
336	Conditioned taste aversion prevents the long-lasting BDNF-induced enhancement of synaptic transmission in the insular cortex: A metaplastic effect. <i>Neurobiology of Learning and Memory</i> , 2016, 130, 71-76.	1.0	17
337	Running to Forget. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyw017.	1.0	2
338	Tau-Driven Neuronal and Neurotrophic Dysfunction in a Mouse Model of Early Tauopathy. <i>Journal of Neuroscience</i> , 2016, 36, 2086-2100.	1.7	56
339	Regulation of Memory Formation by the Transcription Factor XBP1. <i>Cell Reports</i> , 2016, 14, 1382-1394.	2.9	142
340	Can physical exercise in old age improve memory and hippocampal function?. <i>Brain</i> , 2016, 139, 662-673.	3.7	231
341	Growing up in a Bubble: Using Germ-Free Animals to Assess the Influence of the Gut Microbiota on Brain and Behavior. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyw020.	1.0	419
342	Looking Inside the Matrix: Perineuronal Nets in Plasticity, Maladaptive Plasticity and Neurological Disorders. <i>Neurochemical Research</i> , 2016, 41, 1507-1515.	1.6	41
343	Effects of central irisin administration on the uncoupling proteins in rat brain. <i>Neuroscience Letters</i> , 2016, 618, 6-13.	1.0	28
344	CAPS1 effects on intragranular pH and regulation of BDNF release from secretory granules in hippocampal neurons. <i>Journal of Cell Science</i> , 2016, 129, 1378-90.	1.2	17
345	Cellular and System Biology of Memory: Timing, Molecules, and Beyond. <i>Physiological Reviews</i> , 2016, 96, 647-693.	13.1	96
346	Neurobiological actions by three distinct subtypes of brain-derived neurotrophic factor: Multi-ligand model of growth factor signaling. <i>Pharmacological Research</i> , 2016, 105, 93-98.	3.1	58
347	Relationships of peripheral IGF-1, VEGF and BDNF levels to exercise-related changes in memory, hippocampal perfusion and volumes in older adults. <i>NeuroImage</i> , 2016, 131, 142-154.	2.1	236
348	Inositide-dependent signaling pathways as new therapeutic targets in myelodysplastic syndromes. <i>Expert Opinion on Therapeutic Targets</i> , 2016, 20, 677-687.	1.5	13

#	ARTICLE	IF	CITATIONS
349	BDNF â€“ a key transducer of antidepressant effects. <i>Neuropharmacology</i> , 2016, 102, 72-79.	2.0	701
350	Scientific Discoveries: What Is Required for Lasting Impact. <i>Annual Review of Physiology</i> , 2016, 78, 1-21.	5.6	13
351	Lesion-induced and activity-dependent structural plasticity of Purkinje cell dendritic spines in cerebellar vermis and hemisphere. <i>Brain Structure and Function</i> , 2016, 221, 3405-3426.	1.2	17
352	Developmental Expression Patterns of KCC2 and Functionally Associated Molecules in the Human Brain. <i>Cerebral Cortex</i> , 2016, 26, 4574-4589.	1.6	103
353	BDNF Induces Striatal-Enriched Protein Tyrosine Phosphatase 61 Degradation Through the Proteasome. <i>Molecular Neurobiology</i> , 2016, 53, 4261-4273.	1.9	22
354	proBDNF Attenuates Hippocampal Neurogenesis and Induces Learning and Memory Deficits in Aged Mice. <i>Neurotoxicity Research</i> , 2016, 29, 47-53.	1.3	30
355	Antidepressant drug action â€” From rapid changes on network function to network rewiring. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 64, 285-292.	2.5	36
356	Citalopram Ameliorates Synaptic Plasticity Deficits in Different Cognition-Associated Brain Regions Induced by Social Isolation in Middle-Aged Rats. <i>Molecular Neurobiology</i> , 2017, 54, 1927-1938.	1.9	40
357	Interferon-Î² Inhibits Neurotrophin 3 Signalling and Pro-Survival Activity by Upregulating the Expression of Truncated TrkC-T1 Receptor. <i>Molecular Neurobiology</i> , 2017, 54, 1825-1843.	1.9	9
358	Consequences of brain-derived neurotrophic factor withdrawal in CNS neurons and implications in disease. <i>Neurobiology of Disease</i> , 2017, 97, 73-79.	2.1	59
359	Long-term Ameliorative Effects of the Antidepressant Fluoxetine Exposure on Cognitive Deficits in 3â€”-â€”TgAD Mice. <i>Molecular Neurobiology</i> , 2017, 54, 4160-4171.	1.9	35
360	The serotonergic 5-HT4 receptor: A unique modulator of hippocampal synaptic information processing and cognition. <i>Neurobiology of Learning and Memory</i> , 2017, 138, 145-153.	1.0	72
361	Ginsenoside Reduces Cognitive Impairment During Chronic Cerebral Hypoperfusion Through Brain-Derived Neurotrophic Factor Regulated by Epigenetic Modulation. <i>Molecular Neurobiology</i> , 2017, 54, 2889-2900.	1.9	39
362	Hydrogel-delivered brain-derived neurotrophic factor promotes tissue repair and recovery after stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1030-1045.	2.4	159
363	Forebrain-specific ablation of phospholipase CÎ³1 causes manic-like behavior. <i>Molecular Psychiatry</i> , 2017, 22, 1473-1482.	4.1	45
364	Cytokines and Chemokines. , 2017, , 261-283.		1
365	BDNF and Hippocampal Synaptic Plasticity. <i>Vitamins and Hormones</i> , 2017, 104, 153-195.	0.7	287
366	Growth factors and hormones proâ€”peptides: the unexpected adventures of the <sc>BDNF</sc> prodomain. <i>Journal of Neurochemistry</i> , 2017, 141, 330-340.	2.1	28

#	ARTICLE	IF	CITATIONS
367	Neural stem cell therapy for neurodegenerative disorders: The role of neurotrophic support. <i>Neurochemistry International</i> , 2017, 106, 94-100.	1.9	132
368	The potential of transcranial photobiomodulation therapy for treatment of major depressive disorder. <i>Reviews in the Neurosciences</i> , 2017, 28, 441-453.	1.4	51
369	Neurobiology of local and intercellular BDNF signaling. <i>Pflugers Archiv European Journal of Physiology</i> , 2017, 469, 593-610.	1.3	226
370	Exercise Enhances Cognitive Capacity in the Aging Brain. , 2017, , 161-172.		5
371	Irisin in goldfish ( <i>Carassius auratus</i> ): Effects of irisin injections on feeding behavior and expression of appetite regulators, uncoupling proteins and lipoprotein lipase, and fasting-induced changes in FND5 expression. <i>Peptides</i> , 2017, 90, 27-36.	1.2	30
372	BDNF-induced endocannabinoid release modulates neocortical glutamatergic neurotransmission. <i>Synapse</i> , 2017, 71, e21962.	0.6	34
373	FTY720 (Fingolimod) reverses $\alpha$ -synuclein-induced downregulation of brain-derived neurotrophic factor mRNA in OLN-93 oligodendroglial cells. <i>Neuropharmacology</i> , 2017, 117, 149-157.	2.0	27
374	Neuronal Activity in Ontogeny and Oncology. <i>Trends in Cancer</i> , 2017, 3, 89-112.	3.8	80
375	Molecular mechanisms of brain-derived neurotrophic factor in neuro-protection: Recent developments. <i>Brain Research</i> , 2017, 1665, 1-21.	1.1	93
376	Spatial-specific functions in retrograde neuronal signalling. <i>Traffic</i> , 2017, 18, 415-424.	1.3	19
377	Functional identification of activity-regulated, high-affinity glutamine transport in hippocampal neurons inhibited by riluzole. <i>Journal of Neurochemistry</i> , 2017, 142, 29-40.	2.1	19
378	Rapid Acting Antidepressants in Chronic Stress Models: Molecular and Cellular Mechanisms. <i>Chronic Stress</i> , 2017, 1, 247054701769731.	1.7	52
379	Large-scale interaction effects reveal missing heritability in schizophrenia, bipolar disorder and posttraumatic stress disorder. <i>Translational Psychiatry</i> , 2017, 7, e1089-e1089.	2.4	38
380	Serotonergic projections to lumbar levels and its plasticity following spinal cord injury. <i>Neuroscience Letters</i> , 2017, 649, 70-77.	1.0	8
381	Neuronal plasticity and neurotrophic factors in drug responses. <i>Molecular Psychiatry</i> , 2017, 22, 1085-1095.	4.1	201
382	Aberrant cognitive phenotypes and altered hippocampal BDNF expression related to epigenetic modifications in mice lacking the postsynaptic scaffolding protein SHANK1: Implications for autism spectrum disorder. <i>Hippocampus</i> , 2017, 27, 906-919.	0.9	31
383	Swimming exercise prevents behavioural disturbances induced by an intracerebroventricular injection of amyloid- $\beta$ 1-42 peptide through modulation of cytokine/NF-kappaB pathway and indoleamine-2,3-dioxygenase in mouse brain. <i>Behavioural Brain Research</i> , 2017, 331, 1-13.	1.2	31
385	Long-term effects of enriched environment following neonatal hypoxia-ischemia on behavior, BDNF and synaptophysin levels in rat hippocampus: Effect of combined treatment with G-CSF. <i>Brain Research</i> , 2017, 1667, 55-67.	1.1	37

#	ARTICLE	IF	CITATIONS
386	Upregulation of neurotrophins by S 47445, a novel positive allosteric modulator of AMPA receptors in aged rats. <i>Pharmacological Research</i> , 2017, 121, 59-69.	3.1	17
387	The postnatal 5-HT1A receptor regulates adult anxiety and depression differently via multiple molecules. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 78, 66-74.	2.5	18
388	Zinc Interactions With Brain-Derived Neurotrophic Factor and Related Peptide Fragments. <i>Vitamins and Hormones</i> , 2017, 104, 29-56.	0.7	7
389	Reprogramming of Oncogene Expression in Gingival Mesenchymal Stem Cells Following Long-Term Culture In Vitro. <i>Cellular Reprogramming</i> , 2017, 19, 159-170.	0.5	6
390	Neurotrophin signalling: novel insights into mechanisms and pathophysiology. <i>Clinical Science</i> , 2017, 131, 13-23.	1.8	198
391	Involvement of BDNF/TrkB signaling in the effect of diphenyl diselenide on motor function in a Parkinson's disease rat model. <i>European Journal of Pharmacology</i> , 2017, 795, 28-35.	1.7	28
392	Activation of Brain Indoleamine-2,3-dioxygenase Contributes to Depressive-Like Behavior Induced by an Intracerebroventricular Injection of Streptozotocin in Mice. <i>Neurochemical Research</i> , 2017, 42, 2982-2995.	1.6	16
393	TRPC Channels and Brain Inflammation. <i>Advances in Experimental Medicine and Biology</i> , 2017, 976, 111-121.	0.8	7
394	BDNF rescues prefrontal dysfunction elicited by pyramidal neuron-specific DTNBP1 deletion <i>in vivo</i> . <i>Journal of Molecular Cell Biology</i> , 2017, 9, 117-131.	1.5	13
395	7,8-dihydroxyflavone ameliorates cognitive and motor deficits in a Huntington's disease mouse model through specific activation of the PLC $\beta$ 3 pathway. <i>Human Molecular Genetics</i> , 2017, 26, 3144-3160.	1.4	44
396	Optogenetics and the Dissection of Neural Circuits Underlying Depression and Substance-use Disorders. , 0, , 257-275.		0
397	A single bout of exercise increases hippocampal <i>Bdnf</i> : influence of chronic exercise and noradrenaline. <i>Genes, Brain and Behavior</i> , 2017, 16, 800-811.	1.1	26
398	Translational Anatomy and Cell Biology of Autism Spectrum Disorder. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2017, , .	1.0	4
399	Three-tier regulation of cell number plasticity by neurotrophins and Tolls in <i>Drosophila</i> . <i>Journal of Cell Biology</i> , 2017, 216, 1421-1438.	2.3	32
400	Impact of changes in neurotrophic supplementation on development of Alzheimer's disease-like pathology in OXYS rats. <i>Biochemistry (Moscow)</i> , 2017, 82, 318-329.	0.7	14
401	Building branched tissue structures: from single cell guidance to coordinated construction. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20150527.	1.8	30
402	Synaptopathic mechanisms of neurodegeneration and dementia: Insights from Huntington's disease. <i>Progress in Neurobiology</i> , 2017, 153, 18-45.	2.8	52
403	Hippocampal BDNF in physiological conditions and social isolation. <i>Reviews in the Neurosciences</i> , 2017, 28, 675-692.	1.4	88

#	ARTICLE	IF	CITATIONS
404	Retrograde transport of TrkB-containing autophagosomes via the adaptor AP-2 mediates neuronal complexity and prevents neurodegeneration. <i>Nature Communications</i> , 2017, 8, 14819.	5.8	130
405	BDNF Propeptide. <i>Vitamins and Hormones</i> , 2017, 104, 19-28.	0.7	30
406	Differential Maturation of the Two Regulated Secretory Pathways in Human iPSC-Derived Neurons. <i>Stem Cell Reports</i> , 2017, 8, 659-672.	2.3	9
407	An astroglial basis of major depressive disorder? An overview. <i>Glia</i> , 2017, 65, 1227-1250.	2.5	156
408	The total triterpenoid saponins of <i>Xanthoceras sorbifolia</i> improve learning and memory impairments through against oxidative stress and synaptic damage. <i>Phytomedicine</i> , 2017, 25, 15-24.	2.3	30
409	Cross-sectional associations of objectively measured physical activity with brain-derived neurotrophic factor in adolescents. <i>Physiology and Behavior</i> , 2017, 171, 87-91.	1.0	16
410	Mid-life environmental enrichment increases synaptic density in CA1 in a mouse model of $\text{A}\beta$ -associated pathology and positively influences synaptic and cognitive health in healthy ageing. <i>Journal of Comparative Neurology</i> , 2017, 525, 1797-1810.	0.9	32
411	TNF- $\alpha$ Differentially Regulates Synaptic Plasticity in the Hippocampus and Spinal Cord by Microglia-Dependent Mechanisms after Peripheral Nerve Injury. <i>Journal of Neuroscience</i> , 2017, 37, 871-881.	1.7	268
412	Maternal deprivation alters expression of neural maturation gene <i>tbr1</i> in the amygdala paralaminar nucleus in infant female macaques. <i>Developmental Psychobiology</i> , 2017, 59, 235-249.	0.9	15
413	Newborn Neurons in the Aged Hippocampus are Scarce and Slow but Highly Plastic. <i>Cell Reports</i> , 2017, 21, 1127-1128.	2.9	2
414	High Plasticity of New Granule Cells in the Aging Hippocampus. <i>Cell Reports</i> , 2017, 21, 1129-1139.	2.9	71
415	Disturbances of systemic and hippocampal insulin sensitivity in macrophage migration inhibitory factor (MIF) knockout male mice lead to behavioral changes associated with decreased PSA-NCAM levels. <i>Hormones and Behavior</i> , 2017, 96, 95-103.	1.0	7
416	Delayed Maturation of Fast-Spiking Interneurons Is Rectified by Activation of the TrkB Receptor in the Mouse Model of Fragile X Syndrome. <i>Journal of Neuroscience</i> , 2017, 37, 11298-11310.	1.7	45
417	Neuroprotective effects of acetyl-L-carnitine on lipopolysaccharide-induced neuroinflammation in mice: Involvement of brain-derived neurotrophic factor. <i>Neuroscience Letters</i> , 2017, 658, 32-36.	1.0	31
418	AnkG hemizygous mice present cognitive impairment and elevated anxiety/depressive-like traits associated with decreased expression of GABA receptors and postsynaptic density protein. <i>Experimental Brain Research</i> , 2017, 235, 3375-3390.	0.7	14
419	BDNF Val66Met but not transcranial direct current stimulation affects motor learning after stroke. <i>Brain Stimulation</i> , 2017, 10, 882-892.	0.7	29
420	Epigenetic regulation by G9a/GLP complex ameliorates amyloid $\beta$ induced deficits in long-term plasticity and synaptic tagging/capture in hippocampal pyramidal neurons. <i>Aging Cell</i> , 2017, 16, 1062-1072.	3.0	34
421	Multimodal physical activity increases brain-derived neurotrophic factor levels and improves cognition in institutionalized older women. <i>GeroScience</i> , 2017, 39, 407-417.	2.1	30



#	ARTICLE	IF	CITATIONS
422	Matrix Metalloproteinases, Neural Extracellular Matrix, and Central Nervous System Pathology. <i>Progress in Molecular Biology and Translational Science</i> , 2017, 148, 167-202.	0.9	30
423	Tumor suppressor menin is required for subunit-specific nAChR $\hat{\pm}$ 5 transcription and nAChR-dependent presynaptic facilitation in cultured mouse hippocampal neurons. <i>Scientific Reports</i> , 2017, 7, 1768.	1.6	11
424	Visualizing changes in brain-derived neurotrophic factor (BDNF) expression using bioluminescence imaging in living mice. <i>Scientific Reports</i> , 2017, 7, 4949.	1.6	25
425	Long-term voluntary exercise prevents post-weaning social isolation-induced cognitive impairment in rats. <i>Neuroscience</i> , 2017, 360, 1-8.	1.1	15
426	Distinct effects on the dendritic arbor occur by microbead versus bath administration of brain-derived neurotrophic factor. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 4369-4385.	2.4	14
427	Developmental Disorders of the Cerebellum and Neurotrophic Factors. , 2017, , 129-151.		0
428	Morphine Withdrawal Increases Brain-Derived Neurotrophic Factor Precursor. <i>Neurotoxicity Research</i> , 2017, 32, 509-517.	1.3	22
429	LTP at Hilar Mossy Cell-Dentate Granule Cell Synapses Modulates Dentate Gyrus Output by Increasing Excitation/Inhibition Balance. <i>Neuron</i> , 2017, 95, 928-943.e3.	3.8	71
430	Association of serum BDNF levels with psychotic symptom in chronic patients with treatment-resistant depression in a Chinese Han population. <i>Psychiatry Research</i> , 2017, 257, 279-283.	1.7	12
431	Retrograde BDNF to TrkB signaling promotes synapse elimination in the developing cerebellum. <i>Nature Communications</i> , 2017, 8, 195.	5.8	91
432	Brain-Derived Neurotrophic Factor Increases Synaptic Protein Levels via the MAPK/Erk Signaling Pathway and Nrf2/Trx Axis Following the Transplantation of Neural Stem Cells in a Rat Model of Traumatic Brain Injury. <i>Neurochemical Research</i> , 2017, 42, 3073-3083.	1.6	55
433	The effect of postnatal manganese exposure on the NMDA receptor signaling pathway in rat hippocampus. <i>Journal of Biochemical and Molecular Toxicology</i> , 2017, 31, e21969.	1.4	9
434	BDNF ValMet polymorphism tunes frontolimbic circuitry during affective contextual learning. <i>NeuroImage</i> , 2017, 162, 373-383.	2.1	4
435	Mesenchymal stem cells secretome-induced axonal outgrowth is mediated by BDNF. <i>Scientific Reports</i> , 2017, 7, 4153.	1.6	70
436	Brain-derived neurotrophic factor signaling plays a role in resilience to stress promoted by isoquinoline in defeated mice. <i>Journal of Psychiatric Research</i> , 2017, 94, 78-87.	1.5	9
437	A small-molecule TrkB ligand restores hippocampal synaptic plasticity and object location memory in Rett syndrome mice. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 837-845.	1.2	51
438	Abnormal Paraventricular Nucleus of Hypothalamus and Growth Retardation Associated with Loss of Nuclear Receptor Gene COUP-TFII. <i>Scientific Reports</i> , 2017, 7, 5282.	1.6	13
439	Brain-derived neurotrophic factor in the infralimbic cortex alleviates inflammatory pain. <i>Neuroscience Letters</i> , 2017, 655, 7-13.	1.0	34

#	ARTICLE	IF	CITATIONS
440	Protective effects of a green tea polyphenol, epigallocatechin-3-gallate, against sevoflurane-induced neuronal apoptosis involve regulation of CREB/BDNF/TrkB and PI3K/Akt/mTOR signalling pathways in neonatal mice. <i>Canadian Journal of Physiology and Pharmacology</i> , 2017, 95, 1396-1405.	0.7	91
441	Sexual dimorphic expression of TrkB, TrkB-T1, and BDNF in the medial preoptic area of the Syrian hamster. <i>Brain Research</i> , 2017, 1669, 122-125.	1.1	5
442	Total abdominal irradiation exposure impairs cognitive function involving miR-34a-5p/BDNF axis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2333-2341.	1.8	42
443	Advanced glycation end products induce brain-derived neurotrophic factor release from human platelets through the Src-family kinase activation. <i>Cardiovascular Diabetology</i> , 2017, 16, 20.	2.7	11
444	Cooperation of neurotrophin receptor TrkB and Her2 in breast cancer cells facilitates brain metastases. <i>Breast Cancer Research</i> , 2017, 19, 51.	2.2	53
445	Neurotrophin Signaling and Stem Cellsâ€”Implications for Neurodegenerative Diseases and Stem Cell Therapy. <i>Molecular Neurobiology</i> , 2017, 54, 7401-7459.	1.9	49
446	Understanding epigenetic architecture of suicide neurobiology: A critical perspective. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 72, 10-27.	2.9	51
447	Sex differences in brainâ€”derived neurotrophic factor signaling: Functions and implications. <i>Journal of Neuroscience Research</i> , 2017, 95, 336-344.	1.3	31
448	Sex differences in brainâ€”derived neurotrophic factor signaling and functions. <i>Journal of Neuroscience Research</i> , 2017, 95, 328-335.	1.3	130
449	The bacterial peptidoglycan-sensing molecule Pglyrp2 modulates brain development and behavior. <i>Molecular Psychiatry</i> , 2017, 22, 257-266.	4.1	208
450	Early IGF-1 primes visual cortex maturation and accelerates developmental switch between NKCC1 and KCC2 chloride transporters in enriched animals. <i>Neuropharmacology</i> , 2017, 113, 167-177.	2.0	29
451	Emerging roles of the neurotrophin receptor TrkC in synapse organization. <i>Neuroscience Research</i> , 2017, 116, 10-17.	1.0	24
452	Secretome Cues Modulate the Neurogenic Potential of Bone Marrow and Dental Stem Cells. <i>Molecular Neurobiology</i> , 2017, 54, 4672-4682.	1.9	57
453	Epigenetic alterations of the <i>BDNF</i> gene in combatâ€”related postâ€”traumatic stress disorder. <i>Acta Psychiatrica Scandinavica</i> , 2017, 135, 170-179.	2.2	59
454	Pumping the Brakes: Neurotrophic Factors for the Prevention of Cognitive Impairment and Dementia after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 971-986.	1.7	15
455	Ultrastructural Localization of BDNF and trkB Receptors. <i>Neuromethods</i> , 2017, , 133-148.	0.2	0
456	proBDNF Accelerates Brain Amyloid- $\beta$ Deposition and Learning and Memory Impairment in APPswePS1dE9 Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2017, 59, 941-949.	1.2	19
457	BDNF Function in Long-Term Synaptic Plasticity in the Dentate Gyrus In Vivo: Methods for Local Drug Delivery and Biochemical Analysis of Translation. <i>Neuromethods</i> , 2017, , 241-256.	0.2	2

#	ARTICLE	IF	CITATIONS
458	Exercise, cognition, and the adolescent brain. <i>Birth Defects Research</i> , 2017, 109, 1672-1679.	0.8	59
460	TrkB dependent adult hippocampal progenitor differentiation mediates sustained ketamine antidepressant response. <i>Nature Communications</i> , 2017, 8, 1668.	5.8	103
462	Label-free electrochemical detection of brain-derived neurotrophic factor based on a novel immune microelectrode array. , 2017, , .		5
463	Cranial irradiation inhibits hippocampal neurogenesis via DNMT1 and DNMT3A. <i>Oncology Letters</i> , 2017, 15, 2899-2904.	0.8	6
464	Diverse distribution of tyrosine receptor kinase B isoforms in rat multiple tissues. <i>Journal of Veterinary Medical Science</i> , 2017, 79, 1516-1523.	0.3	14
465	Convergence of neurotransmissions at synapse on IEG regulation in nucleus. <i>Frontiers in Bioscience - Landmark</i> , 2017, 22, 1052-1072.	3.0	9
466	Am I and My Bacterial Circumstances Linking Gut Microbiome, Neurodevelopment, and Depression. <i>Frontiers in Psychiatry</i> , 2017, 8, 153.	1.3	61
467	Genistein attenuates isoflurane-induced neurotoxicity and improves impaired spatial learning and memory by regulating cAMP/CREB and BDNF-TrkB-PI3K/Akt signaling. <i>Korean Journal of Physiology and Pharmacology</i> , 2017, 21, 579.	0.6	50
468	Brain-Derived Neurotrophic Factor in Cocaine Withdrawal. , 2017, , 555-564.		0
469	Primetime for Learning Genes. <i>Genes</i> , 2017, 8, 69.	1.0	10
470	BDNF Binds Its Pro-Peptide with High Affinity and the Common Val66Met Polymorphism Attenuates the Interaction. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1042.	1.8	36
471	Evolution of Neuroplasticity in Response to Physical Activity in Old Age: The Case for Dancing. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 56.	1.7	118
472	PGC-1 $\alpha$ or FNDC5 Is Involved in Modulating the Effects of A $\beta$ 1-42 Oligomers on Suppressing the Expression of BDNF, a Beneficial Factor for Inhibiting Neuronal Apoptosis, A $\beta$ 2 Deposition and Cognitive Decline of APP/PS1 Tg Mice. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 65.	1.7	45
473	Exercise-Induced Neuroprotection of the Nigrostriatal Dopamine System in Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 358.	1.7	64
474	Gut Microbiota: A Potential Regulator of Neurodevelopment. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 25.	1.8	120
475	Microglial Intracellular Ca <sup>2+</sup> Signaling in Synaptic Development and its Alterations in Neurodevelopmental Disorders. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 69.	1.8	40
476	Calcium-Dependent and Synapsin-Dependent Pathways for the Presynaptic Actions of BDNF. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 75.	1.8	18
477	Does Transcranial Direct Current Stimulation Combined with Peripheral Electrical Stimulation Have an Additive Effect in the Control of Hip Joint Osteonecrosis Pain Associated with Sickle Cell Disease? A Protocol for a One-Session Double Blind, Block-Randomized Clinical Trial. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 633.	1.0	6

#	ARTICLE	IF	CITATIONS
478	The Impact of Ecological Niche on Adaptive Flexibility of Sensory Circuitry. <i>Frontiers in Neuroscience</i> , 2017, 11, 344.	1.4	3
479	BDNF/trkB Induction of Calcium Transients through Cav2.2 Calcium Channels in Motoneurons Corresponds to F-actin Assembly and Growth Cone Formation on $\beta$ 2-Chain Laminin (221). <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 346.	1.4	25
480	Function and Dysfunction of Microglia during Brain Development: Consequences for Synapses and Neural Circuits. <i>Frontiers in Synaptic Neuroscience</i> , 2017, 9, 9.	1.3	150
481	Neural Plasticity Is Involved in Physiological Sleep, Depressive Sleep Disturbances, and Antidepressant Treatments. <i>Neural Plasticity</i> , 2017, 2017, 1-16.	1.0	12
482	Impact of Yoga and Meditation on Cellular Aging in Apparently Healthy Individuals: A Prospective, Open-Label Single-Arm Exploratory Study. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-9.	1.9	73
483	Alterations in the properties of neonatal thalamocortical synapses with time in in vitro slices. <i>PLoS ONE</i> , 2017, 12, e0171897.	1.1	3
484	TREK-1 mediates isoflurane-induced cytotoxicity in astrocytes. <i>BMC Anesthesiology</i> , 2017, 17, 124.	0.7	7
485	Sustained endocrine profiles of a girl with WAGR syndrome. <i>BMC Medical Genetics</i> , 2017, 18, 117.	2.1	4
486	DHCR24 exerts neuroprotection upon inflammation-induced neuronal death. <i>Journal of Neuroinflammation</i> , 2017, 14, 215.	3.1	34
487	Microbial regulation of microRNA expression in the amygdala and prefrontal cortex. <i>Microbiome</i> , 2017, 5, 102.	4.9	133
488	BDNF/NF- $\kappa$ B Signaling in the Neurobiology of Depression. <i>Current Pharmaceutical Design</i> , 2017, 23, 3154-3163.	0.9	162
489	Activation of endothelial TrkB receptors induces relaxation of resistance arteries. <i>Vascular Pharmacology</i> , 2018, 106, 46-53.	1.0	16
490	Brain-region specific responses of astrocytes to an in vitro injury and neurotrophins. <i>Molecular and Cellular Neurosciences</i> , 2018, 88, 240-248.	1.0	29
491	Maintenance of postsynaptic neuronal excitability by a positive feedback loop of postsynaptic BDNF expression. <i>Cognitive Neurodynamics</i> , 2018, 12, 403-416.	2.3	7
492	Venlafaxine prevents morphine antinociceptive tolerance: The role of neuroinflammation and the l-arginine-nitric oxide pathway. <i>Experimental Neurology</i> , 2018, 303, 134-141.	2.0	29
493	Elastase-2 Knockout Mice Display Anxiogenic- and Antidepressant-Like Phenotype: Putative Role for BDNF Metabolism in Prefrontal Cortex. <i>Molecular Neurobiology</i> , 2018, 55, 7062-7071.	1.9	3
494	Antidepressant action of BDNF requires and is mimicked by $Gl\pm 1/3$ expression in the hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3549-E3558.	3.3	50
495	Silibinin exerts antidepressant effects by improving neurogenesis through BDNF/TrkB pathway. <i>Behavioural Brain Research</i> , 2018, 348, 184-191.	1.2	31

#	ARTICLE	IF	CITATIONS
496	Effects of postnatal handling on adult behavior and brain mRNA expression of serotonin receptor, brain-derived neurotrophic factor and GABA <sub>A</sub> receptor subunit. <i>International Journal of Developmental Neuroscience</i> , 2018, 68, 17-25.	0.7	7
497	Targeting the intracellular signaling $\alpha$ -STOP and $\alpha$ -GO pathways for the treatment of alcohol use disorders. <i>Psychopharmacology</i> , 2018, 235, 1727-1743.	1.5	28
498	Antidepressant-like effect of losartan involves TRKB transactivation from angiotensin receptor type 2 (AGTR2) and recruitment of FYN. <i>Neuropharmacology</i> , 2018, 135, 163-171.	2.0	39
499	Pro region engineering of nerve growth factor by deep mutational scanning enables a yeast platform for conformational epitope mapping of anti-NGF monoclonal antibodies. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1925-1937.	1.7	12
500	Synaptic activity-induced glycolysis facilitates membrane lipid provision and neurite outgrowth. <i>EMBO Journal</i> , 2018, 37, .	3.5	35
501	Beyond good and evil: A putative continuum-sorting hypothesis for the functional role of proBDNF/BDNF-propeptide/mBDNF in antidepressant treatment. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 90, 70-83.	2.9	46
502	Yoga- and meditation-based lifestyle intervention increases neuroplasticity and reduces severity of major depressive disorder: A randomized controlled trial. <i>Restorative Neurology and Neuroscience</i> , 2018, 36, 423-442.	0.4	81
503	Antidepressant-like effects of a novel curcumin derivative J147: Involvement of 5-HT <sub>1A</sub> receptor. <i>Neuropharmacology</i> , 2018, 135, 506-513.	2.0	34
504	Post Traumatic Stress Disorder Heraldng the Onset of Semantic Frontotemporal Dementia. <i>Journal of Alzheimer's Disease</i> , 2018, 63, 203-215.	1.2	24
505	Excitatory and inhibitory synaptic dysfunction in mania: an emerging hypothesis from animal model studies. <i>Experimental and Molecular Medicine</i> , 2018, 50, 1-11.	3.2	40
506	Integrins promote axonal regeneration after injury of the nervous system. <i>Biological Reviews</i> , 2018, 93, 1339-1362.	4.7	81
507	Interneuron synaptopathy in developing rat cortex induced by the pro-inflammatory cytokine LIF. <i>Experimental Neurology</i> , 2018, 302, 169-180.	2.0	11
508	REST, a master transcriptional regulator in neurodegenerative disease. <i>Current Opinion in Neurobiology</i> , 2018, 48, 193-200.	2.0	174
509	Highly segregated localization of the functionally related vps10p receptors sortilin and SorCS2 during neurodevelopment. <i>Journal of Comparative Neurology</i> , 2018, 526, 1267-1286.	0.9	13
510	Investigation of multi-target-directed ligands (MTDLs) with butyrylcholinesterase (BuChE) and indoleamine 2,3-dioxygenase 1 (IDO1) inhibition: The design, synthesis of miconazole analogues targeting Alzheimer's disease. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1665-1674.	1.4	27
511	Pilose antler polypeptides ameliorates hypoxic-ischemic encephalopathy by activated neurotrophic factors and SDF1/CXCR4 axis in rats. <i>Acta Biochimica Et Biophysica Sinica</i> , 2018, 50, 254-262.	0.9	15
512	Circadian control of p75 neurotrophin receptor leads to alternate activation of Nrf2 and c-Rel to reset energy metabolism in astrocytes via brain-derived neurotrophic factor. <i>Free Radical Biology and Medicine</i> , 2018, 119, 34-44.	1.3	26
513	Aquarobic exercises improve the serum blood irisin and brain-derived neurotrophic factor levels in elderly women. <i>Experimental Gerontology</i> , 2018, 104, 60-65.	1.2	33

#	ARTICLE	IF	CITATIONS
514	BDNF Activates mTOR to Upregulate NR2B Expression in the Rostral Anterior Cingulate Cortex Required for Inflammatory Pain-Related Aversion in Rats. <i>Neurochemical Research</i> , 2018, 43, 681-691.	1.6	11
515	Calcium Release Mediated by Redox-Sensitive RyR2 Channels Has a Central Role in Hippocampal Structural Plasticity and Spatial Memory. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1125-1146.	2.5	48
516	Human Wharton's Jelly-Derived Stem Cells Display a Distinct Immunomodulatory and Proregenerative Transcriptional Signature Compared to Bone Marrow-Derived Stem Cells. <i>Stem Cells and Development</i> , 2018, 27, 65-84.	1.1	81
518	Effects of the brain-derived neurotrophic factor variant Val66Met on cortical structure in late childhood and early adolescence. <i>Journal of Psychiatric Research</i> , 2018, 98, 51-58.	1.5	11
519	Methods to Study the Signal Transduction of the Surface Receptor Tyrosine Kinase TrkB in Neurons. <i>Methods in Molecular Biology</i> , 2018, 1722, 211-222.	0.4	1
520	Plasticity after pediatric cochlear implantation: Implication from changes in peripheral plasma level of BDNF and auditory nerve responses. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2018, 105, 103-110.	0.4	2
521	EPA enriched ethanolamine plasmalogens significantly improve cognition of Alzheimer's disease mouse model by suppressing $\beta$ -amyloid generation. <i>Journal of Functional Foods</i> , 2018, 41, 9-18.	1.6	45
522	Blockade of soluble epoxide hydrolase attenuates post-ischemic neuronal hyperexcitation and confers resilience against stroke with TrkB activation. <i>Scientific Reports</i> , 2018, 8, 118.	1.6	17
523	What do the genetic association data say about the high risk of suicide in people with depression? A novel network-based approach to find common molecular basis for depression and suicidal behavior and related therapeutic targets. <i>Journal of Affective Disorders</i> , 2018, 229, 463-468.	2.0	12
524	Peripheral Blood Brain-Derived Neurotrophic Factor as a Biomarker of Alzheimer's Disease: Are There Methodological Biases?. <i>Molecular Neurobiology</i> , 2018, 55, 6661-6672.	1.9	54
525	Neurotrophic factors hold promise for the future of Parkinson's disease treatment: is there a light at the end of the tunnel?. <i>Reviews in the Neurosciences</i> , 2018, 29, 475-489.	1.4	44
526	The effect of brain-derived neurotrophic factor on radiation-induced neuron architecture impairment is associated with the NFATc4/3 pathway. <i>Brain Research</i> , 2018, 1681, 21-27.	1.1	5
527	Trophic modulation of gamma oscillations: The key role of processing protease for Neuregulin-1 and BDNF precursors. <i>Neurochemistry International</i> , 2018, 119, 2-10.	1.9	12
528	Comparative study of the effects of phosphatidylcholine rich in DHA and EPA on Alzheimer's disease and the possible mechanisms in CHO-APP/PS1 cells and SAMP8 mice. <i>Food and Function</i> , 2018, 9, 643-654.	2.1	64
529	The Dynamics of Neurosteroids and Sex-Related Hormones in the Pathogenesis of Alzheimer's Disease. <i>NeuroMolecular Medicine</i> , 2018, 20, 215-224.	1.8	9
530	Cerebellar transcranial direct current stimulation interacts with BDNF Val66Met in motor learning. <i>Brain Stimulation</i> , 2018, 11, 759-771.	0.7	14
531	Blood biomarkers and treatment response in major depression. <i>Expert Review of Molecular Diagnostics</i> , 2018, 18, 513-529.	1.5	58
532	Amygdala and serum neurotrophic factor levels depend on rearing condition in male rats. <i>Journal of Developmental Origins of Health and Disease</i> , 2018, 9, 377-380.	0.7	1

#	ARTICLE	IF	CITATIONS
533	Recent insights into antidepressant therapy: Distinct pathways and potential common mechanisms in the treatment of depressive syndromes. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 88, 63-72.	2.9	25
534	Brain-derived neurotrophic factor secreted by the cerebral endothelium: A new actor of brain function?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 935-949.	2.4	53
535	Autophagy in the presynaptic compartment. <i>Current Opinion in Neurobiology</i> , 2018, 51, 80-85.	2.0	22
536	What neurons tell themselves: autocrine signals play essential roles in neuronal development and function. <i>Current Opinion in Neurobiology</i> , 2018, 51, 70-79.	2.0	9
537	Development of the Adverse Outcome Pathway (AOP): Chronic binding of antagonist to N-methyl-D-aspartate receptors (NMDARs) during brain development induces impairment of learning and memory abilities of children. <i>Toxicology and Applied Pharmacology</i> , 2018, 354, 153-175.	1.3	47
538	Pro-Brain-Derived Neurotrophic Factor (proBDNF)-Mediated p75NTR Activation Promotes Depolarizing Actions of GABA and Increases Susceptibility to Epileptic Seizures. <i>Cerebral Cortex</i> , 2018, 28, 510-527.	1.6	37
539	Health Benefits of Exercise. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2018, 8, a029694.	2.9	300
540	DNA methylation and clinical response to antidepressant medication in major depressive disorder: A review and recommendations. <i>Neuroscience Letters</i> , 2018, 669, 14-23.	1.0	54
541	Neurobiology of depression: A neurodevelopmental approach. <i>World Journal of Biological Psychiatry</i> , 2018, 19, 349-359.	1.3	59
542	The role of aquaporin-4 in synaptic plasticity, memory and disease. <i>Brain Research Bulletin</i> , 2018, 136, 118-129.	1.4	97
543	BDNF-Dependent Effects on Amygdala-Cortical Circuitry and Depression Risk in Children and Youth. <i>Cerebral Cortex</i> , 2018, 28, 1760-1770.	1.6	19
544	BDNF: A Key Factor with Multipotent Impact on Brain Signaling and Synaptic Plasticity. <i>Cellular and Molecular Neurobiology</i> , 2018, 38, 579-593.	1.7	823
545	Association Between Neurotrophic Factor Expression and Pain-Related Behavior Induced by Nucleus Pulposus Applied to Rat Nerve Root. <i>Spine</i> , 2018, 43, E7-E15.	1.0	8
546	The broad spectrum of signaling pathways regulated by unfolded protein response in neuronal homeostasis. <i>Neurochemistry International</i> , 2018, 119, 26-34.	1.9	5
547	Serum BDNF Is Positively Associated With Negative Symptoms in Older Adults With Schizophrenia. <i>Biological Research for Nursing</i> , 2018, 20, 63-69.	1.0	15
548	An acute bout of aerobic or strength exercise specifically modifies circulating exerkine levels and neurocognitive functions in elderly individuals with mild cognitive impairment. <i>NeuroImage: Clinical</i> , 2018, 17, 272-284.	1.4	92
549	Therapeutic doses of doxorubicin induce premature senescence of human mesenchymal stem cells derived from menstrual blood, bone marrow and adipose tissue. <i>International Journal of Hematology</i> , 2018, 107, 286-296.	0.7	28
550	Plasticity of the epigenome during early-life stress. <i>Seminars in Cell and Developmental Biology</i> , 2018, 77, 115-132.	2.3	69

#	ARTICLE	IF	CITATIONS
551	Behavioral phenotypes and neurobiological mechanisms in the Shank1 mouse model for autism spectrum disorder: A translational perspective. <i>Behavioural Brain Research</i> , 2018, 352, 46-61.	1.2	25
552	Structural Neuroimaging of Anorexia Nervosa: Future Directions in the Quest for Mechanisms Underlying Dynamic Alterations. <i>Biological Psychiatry</i> , 2018, 83, 224-234.	0.7	120
553	Neuronal activityâ€dependent local activation of dendritic unfolded protein response promotes expression of brainâ€derived neurotrophic factor in cell soma. <i>Journal of Neurochemistry</i> , 2018, 144, 35-49.	2.1	32
554	Neural deletion of <i>Sh2b1</i> results in brain growth retardation and reactive aggression. <i>FASEB Journal</i> , 2018, 32, 1830-1840.	0.2	19
555	Physiological functions of non-apoptotic caspase activity in the nervous system. <i>Seminars in Cell and Developmental Biology</i> , 2018, 82, 127-136.	2.3	49
556	Applications of Acupuncture Therapy in Modulating Plasticity of Central Nervous System. <i>Neuromodulation</i> , 2018, 21, 762-776.	0.4	70
557	Age-related changes in STriatal-Enriched protein tyrosine Phosphatase levels: Regulation by BDNF. <i>Molecular and Cellular Neurosciences</i> , 2018, 86, 41-49.	1.0	9
558	The Neuroprotective Effects of Experience on Cognitive Functions: Evidence from Animal Studies on the Neurobiological Bases of Brain Reserve. <i>Neuroscience</i> , 2018, 370, 218-235.	1.1	86
559	Interactions of BDNF Val66Met Polymorphism and Menstrual Pain on Brain Complexity. <i>Frontiers in Neuroscience</i> , 2018, 12, 826.	1.4	9
560	Recording Activity-Dependent Release of BDNF from Hippocampal Neurons. <i>Neuromethods</i> , 2018, , 119-129.	0.2	2
561	Die Analyse synaptischer PlastizitÄt auf Einzelzellebene mit Hilfe der STDP. <i>Neuroforum</i> , 2018, 24, 213-221.	0.2	0
562	<i>ARC</i> and <i>BDNF</i> expression after cocaine selfâ€administration or cueâ€induced reinstatement of cocaine seeking in adolescent and adult male rats. <i>Addiction Biology</i> , 2018, 23, 1233-1241.	1.4	14
563	Prefrontal cortical <i>trkB</i> , glucocorticoids, and their interactions in stress and developmental contexts. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 95, 535-558.	2.9	36
564	Seizure-Induced <i>Arc</i> mRNA Expression Thresholds in Rat Hippocampus and Perirhinal Cortex. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 53.	1.2	3
565	Fear extinction requires <i>ASIC1a</i> -dependent regulation of hippocampal-prefrontal correlates. <i>Science Advances</i> , 2018, 4, eaau3075.	4.7	46
566	The effect of CA1 administration of orexin-A on hippocampal expression of <i>COX-2</i> and <i>BDNF</i> in a rat model of orofacial pain. <i>Arquivos De Neuro-Psiquiatria</i> , 2018, 76, 603-608.	0.3	9
567	Intermittent Fasting-Dietary Restriction as a Geroprotector. , 2018, , 195-215.		1
568	Water Demand Framework and Water Development: The Case of China. <i>Water (Switzerland)</i> , 2018, 10, 1860.	1.2	8



#	ARTICLE	IF	CITATIONS
569	BDNF Val66Met polymorphism is associated with altered activity-dependent modulation of short-interval intracortical inhibition in bilateral M1. PLoS ONE, 2018, 13, e0197505.	1.1	12
570	Brain-Derived Neurotrophic Factor (BDNF) Regulates Rab5-Positive Early Endosomes in Hippocampal Neurons to Induce Dendritic Branching. Frontiers in Cellular Neuroscience, 2018, 12, 493.	1.8	34
571	The Neuroprotective Effects of Exercise: Maintaining a Healthy Brain Throughout Aging. Brain Plasticity, 2018, 4, 17-52.	1.9	116
572	BDNF <sup>+/+</sup> rats exhibit depressive phenotype and altered expression of genes relevant in mood disorders. Genes, Brain and Behavior, 2019, 18, e12546.	1.1	15
573	GABA-Induced Intracellular Mg <sup>2+</sup> Mobilization Integrates and Coordinates Cellular Information Processing for the Maturation of Neural Networks. Current Biology, 2018, 28, 3984-3991.e5.	1.8	27
574	Modulation of Spike-Timing Dependent Plasticity: Towards the Inclusion of a Third Factor in Computational Models. Frontiers in Computational Neuroscience, 2018, 12, 49.	1.2	57
575	Probiotics and Prebiotics as a Therapeutic Strategy to Improve Memory in a Model of Middle-Aged Rats. Frontiers in Aging Neuroscience, 2018, 10, 416.	1.7	73
576	Item-Place Encoding Through Hippocampal Long-Term Depression. Handbook of Behavioral Neuroscience, 2018, 27, 273-289.	0.7	7
577	PKC $\mu$ Inhibits Neuronal Dendritic Spine Development through Dual Phosphorylation of Ephexin5. Cell Reports, 2018, 25, 2470-2483.e8.	2.9	17
578	Intracerebral Delivery of Brain-Derived Neurotrophic Factor Using HyStem <sup>®</sup> -C Hydrogel Implants Improves Functional Recovery and Reduces Neuroinflammation in a Rat Model of Ischemic Stroke. International Journal of Molecular Sciences, 2018, 19, 3782.	1.8	39
579	Postnatal TrkB ablation in corticolimbic interneurons induces social dominance in male mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9909-E9915.	3.3	17
580	The signaling pathways underlying BDNF-induced Nrf2 hippocampal nuclear translocation involve ROS, RyR-Mediated Ca <sup>2+</sup> signals, ERK and PI3K. Biochemical and Biophysical Research Communications, 2018, 505, 201-207.	1.0	43
581	Synapse-selective rapid potentiation of hippocampal synaptic transmission by 7,8-dihydroxyflavone. Neuropsychopharmacology Reports, 2018, 38, 197-203.	1.1	6
582	Physiological and Pathological Roles of CaMKII-PP1 Signaling in the Brain. International Journal of Molecular Sciences, 2018, 19, 20.	1.8	57
583	Pool size estimations for dense-core vesicles in mammalian CNS neurons. EMBO Journal, 2018, 37, .	3.5	53
584	Molecular Basis and Emerging Strategies for Anti-aging Interventions. , 2018, , .		1
585	Pre-reproductive Parental Enriching Experiences Influence Progeny's Developmental Trajectories. Frontiers in Behavioral Neuroscience, 2018, 12, 254.	1.0	11
586	BDNF-Live-Exon-Visualization (BLEV) Allows Differential Detection of BDNF Transcripts in vitro and in vivo. Frontiers in Molecular Neuroscience, 2018, 11, 325.	1.4	12

#	ARTICLE	IF	CITATIONS
587	Modulation of AMPA receptor surface diffusion restores hippocampal plasticity and memory in Huntington's disease models. <i>Nature Communications</i> , 2018, 9, 4272.	5.8	62
588	Effect of long-term administration of antiretroviral drugs (Tenofovir and Nevirapine) on neuroinflammation and neuroplasticity in mouse hippocampi. <i>Journal of Chemical Neuroanatomy</i> , 2018, 94, 86-92.	1.0	12
589	Neurogenesis and gliogenesis modulation in cerebral ischemia by CDK5 RNAi-based therapy. <i>Biomedica</i> , 2018, 38, 388-397.	0.3	5
590	Daily Intermittent Normobaric Hypoxia Over 2 Weeks Reduces BDNF Plasma Levels in Young Adults – A Randomized Controlled Feasibility Study. <i>Frontiers in Physiology</i> , 2018, 9, 1337.	1.3	11
591	Chronic asthma-induced behavioral and hippocampal neuronal morphological changes are concurrent with BDNF, cofilin1 and Cdc42/RhoA alterations in immature mice. <i>Brain Research Bulletin</i> , 2018, 143, 194-206.	1.4	16
592	The acetylation of cyclin-dependent kinase 5 at lysine 33 regulates kinase activity and neurite length in hippocampal neurons. <i>Scientific Reports</i> , 2018, 8, 13676.	1.6	18
593	Supramolecular Nanostructure Activates TrkB Receptor Signaling of Neuronal Cells by Mimicking Brain-Derived Neurotrophic Factor. <i>Nano Letters</i> , 2018, 18, 6237-6247.	4.5	79
594	Postnatal neural crest stem cells from hair follicle interact with nerve tissue in vitro and in vivo. <i>Tissue and Cell</i> , 2018, 54, 94-104.	1.0	3
595	Apelin-13 Upregulates BDNF Against Chronic Stress-induced Depression-like Phenotypes by Ameliorating HPA Axis and Hippocampal Glucocorticoid Receptor Dysfunctions. <i>Neuroscience</i> , 2018, 390, 151-159.	1.1	48
596	Regulation of BDNF Release by ARMS/Kidins220 through Modulation of Synaptotagmin-IV Levels. <i>Journal of Neuroscience</i> , 2018, 38, 5415-5428.	1.7	24
598	Interplay among gut microbiota, intestinal mucosal barrier and enteric neuro-immune system: a common path to neurodegenerative diseases?. <i>Acta Neuropathologica</i> , 2018, 136, 345-361.	3.9	167
599	Exercise and circulating BDNF: Mechanisms of release and implications for the design of exercise interventions. <i>Applied Physiology, Nutrition and Metabolism</i> , 2018, 43, 1095-1104.	0.9	146
600	Minocycline Promotes BDNF Expression of N2a Cells via Inhibition of miR-155-Mediated Repression After Oxygen-Glucose Deprivation and Reoxygenation. <i>Cellular and Molecular Neurobiology</i> , 2018, 38, 1305-1313.	1.7	20
601	The Epigenetics of Early Life Adversity: Current Limitations and Possible Solutions. <i>Progress in Molecular Biology and Translational Science</i> , 2018, 157, 343-425.	0.9	31
602	Roles of Gasotransmitters in Synaptic Plasticity and Neuropsychiatric Conditions. <i>Neural Plasticity</i> , 2018, 2018, 1-15.	1.0	28
603	Post-operative pain in mice is prolonged by diet-induced obesity and rescued by dietary intervention. <i>Brain, Behavior, and Immunity</i> , 2018, 74, 96-105.	2.0	13
604	Pull down assay for GTP-bound form of Sar1a reveals its activation during morphological differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 2047-2053.	1.0	10
605	Prenatal intimate partner violence exposure predicts infant biobehavioral regulation: Moderation by the brain-derived neurotrophic factor ( <i>BDNF</i> ) gene. <i>Development and Psychopathology</i> , 2018, 30, 1009-1021.	1.4	8

#	ARTICLE	IF	CITATIONS
606	The Cerebral Brain-Derived Neurotrophic Factor Pathway, Either Neuronal or Endothelial, Is Impaired in Rats with Adjuvant-Induced Arthritis. Connection with Endothelial Dysfunction. <i>Frontiers in Physiology</i> , 2017, 8, 1125.	1.3	12
607	Association Between Objectively Measured Physical Activity and Plasma BDNF in Adolescents: DADOS Study. <i>Journal of Molecular Neuroscience</i> , 2018, 65, 467-471.	1.1	8
608	Maternal methamphetamine exposure causes cognitive impairment and alteration of neurodevelopment-related genes in adult offspring mice. <i>Neuropharmacology</i> , 2018, 140, 25-34.	2.0	20
609	Growth of Triple Negative and Progesterone Positive Breast Cancer Causes Oxidative Stress and Down-Regulates Neuroprotective Transcription Factor NPAS4 and NPAS4-Regulated Genes in Hippocampal Tissues of TumorGraft Mice—An Aging Connection. <i>Frontiers in Genetics</i> , 2018, 9, 58.	1.1	8
610	The Aerobic and Cognitive Exercise Study (ACES) for Community-Dwelling Older Adults With or At-Risk for Mild Cognitive Impairment (MCI): Neuropsychological, Neurobiological and Neuroimaging Outcomes of a Randomized Clinical Trial. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 76.	1.7	120
611	A Putative Mechanism of Age-Related Synaptic Dysfunction Based on the Impact of IGF-1 Receptor Signaling on Synaptic CaMKII $\alpha$ Phosphorylation. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 35.	0.9	11
612	Adult Hippocampal Neurogenesis: Regulation and Possible Functional and Clinical Correlates. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 44.	0.9	124
613	EGR3 Immediate Early Gene and the Brain-Derived Neurotrophic Factor in Bipolar Disorder. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 15.	1.0	20
614	The 3' UTRs of Brain-Derived Neurotrophic Factor Transcripts Differentially Regulate the Dendritic Arbor. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 60.	1.8	14
615	Underlying Mechanisms of Cooperativity, Input Specificity, and Associativity of Long-Term Potentiation Through a Positive Feedback of Local Protein Synthesis. <i>Frontiers in Computational Neuroscience</i> , 2018, 12, 25.	1.2	11
616	The Differential Effects of Repetitive Magnetic Stimulation in an In Vitro Neuronal Model of Ischemia/Reperfusion Injury. <i>Frontiers in Neurology</i> , 2018, 9, 50.	1.1	31
617	Cognitive Decline, Dementia, Alzheimer's Disease and Presbycusis: Examination of the Possible Molecular Mechanism. <i>Frontiers in Neuroscience</i> , 2018, 12, 394.	1.4	72
618	Activity-Dependent Pre-miR-134 Dendritic Localization Is Required for Hippocampal Neuron Dendritogenesis. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 171.	1.4	20
619	Preschoolers' Technology-Assessed Physical Activity and Cognitive Function: A Cross-Sectional Study. <i>Journal of Clinical Medicine</i> , 2018, 7, 108.	1.0	14
620	The Role of Sex in Memory Function: Considerations and Recommendations in the Context of Exercise. <i>Journal of Clinical Medicine</i> , 2018, 7, 132.	1.0	81
621	Analyzing synaptic plasticity at the single cell level with STDP. <i>Neuroforum</i> , 2018, 24, A143-A150.	0.2	0
622	Dance training is superior to repetitive physical exercise in inducing brain plasticity in the elderly. <i>PLoS ONE</i> , 2018, 13, e0196636.	1.1	158
623	Cortical Axonal Secretion of BDNF in the Striatum Is Disrupted in the Mutant-huntingtin Knock-in Mouse Model of Huntington's Disease. <i>Experimental Neurobiology</i> , 2018, 27, 217-225.	0.7	25

#	ARTICLE	IF	CITATIONS
624	The receptor tyrosine kinase TrkB signals without dimerization at the plasma membrane. <i>Science Signaling</i> , 2018, 11, .	1.6	37
625	HIV-1 Protein Tat1â€“72 Impairs Neuronal Dendrites via Activation of PP1 and Regulation of the CREB/BDNF Pathway. <i>Virologica Sinica</i> , 2018, 33, 261-269.	1.2	15
626	Developmental auditory exposure shapes responses of catecholaminergic neurons to socially-modulated song. <i>Scientific Reports</i> , 2018, 8, 11717.	1.6	15
627	ERK1/2-mediated disruption of BDNFâ€“TrkB signaling causes synaptic impairment contributing to fluorideâ€“induced developmental neurotoxicity. <i>Toxicology</i> , 2018, 410, 222-230.	2.0	36
628	A BDNF-Mediated Push-Pull Plasticity Mechanism for Synaptic Clustering. <i>Cell Reports</i> , 2018, 24, 2063-2074.	2.9	65
629	Neuron activityâ€“induced Wnt signaling up-regulates expression of brain-derived neurotrophic factor in the pain neural circuit. <i>Journal of Biological Chemistry</i> , 2018, 293, 15641-15651.	1.6	43
630	Inhibition of BDNF signaling in the paraventricular nucleus of the hypothalamus lowers acute stress-induced pressor responses. <i>Journal of Neurophysiology</i> , 2018, 120, 633-643.	0.9	9
631	Genetic Dissection of Presynaptic and Postsynaptic BDNF-TrkB Signaling in Synaptic Efficacy of CA3-CA1 Synapses. <i>Cell Reports</i> , 2018, 24, 1550-1561.	2.9	68
632	Serotonin depletion causes valproate-responsive manic-like condition and increased hippocampal neuroplasticity that are reversed by stress. <i>Scientific Reports</i> , 2018, 8, 11847.	1.6	26
633	Visualizing BDNF Transcript Usage During Sound-Induced Memory Linked Plasticity. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 260.	1.4	17
634	Intermittent, low dose carbon monoxide exposure enhances survival and dopaminergic differentiation of human neural stem cells. <i>PLoS ONE</i> , 2018, 13, e0191207.	1.1	20
635	An Update on Promising Biomarkers in Schizophrenia. <i>Focus (American Psychiatric Publishing)</i> , 2018, 16, 153-163.	0.4	15
636	International Union of Basic and Clinical Pharmacology CIV: The Neurobiology of Treatment-resistant Depression: From Antidepressant Classifications to Novel Pharmacological Targets. <i>Pharmacological Reviews</i> , 2018, 70, 475-504.	7.1	42
637	Neurotrophic Factors. , 2018, , 55-64.		3
638	Tropomyosin-Related Kinase B (TrkB) Regulates Neurite Outgrowth via a Novel Interaction with Suppressor of Cytokine Signalling 2 (SOCS2). <i>Molecular Neurobiology</i> , 2019, 56, 1262-1275.	1.9	5
639	Cannabidiol Induces Rapid and Sustained Antidepressant-Like Effects Through Increased BDNF Signaling and Synaptogenesis in the Prefrontal Cortex. <i>Molecular Neurobiology</i> , 2019, 56, 1070-1081.	1.9	124
640	Brain-Derived Neurotrophic Factor in Brain Disorders: Focus on Neuroinflammation. <i>Molecular Neurobiology</i> , 2019, 56, 3295-3312.	1.9	449
641	Role of a VGF/BDNF/TrkB Autoregulatory Feedback Loop in Rapid-Acting Antidepressant Efficacy. <i>Journal of Molecular Neuroscience</i> , 2019, 68, 504-509.	1.1	37

#	ARTICLE	IF	CITATIONS
642	Serum level of brain-derived neurotrophic factor in Parkinson's disease: a meta-analysis. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 88, 168-174.	2.5	56
643	Integration of Neurons Derived from Transplanted BDNF-Overexpressing Neural Stem Cells into Circuit of the Irradiated Hippocampus. <i>Radiation Research</i> , 2019, 192, 345.	0.7	1
644	Rb1, the Primary Active Ingredient in Panax ginseng C.A. Meyer, Exerts Antidepressant-Like Effects via the BDNF-TrkB-CREB Pathway. <i>Frontiers in Pharmacology</i> , 2019, 10, 1034.	1.6	31
645	Unilateral Focused Ultrasound-Induced Blood-Brain Barrier Opening Reduces Phosphorylated Tau from The rTg4510 Mouse Model. <i>Theranostics</i> , 2019, 9, 5396-5411.	4.6	63
646	Synchronization between neural circuits connected by hybrid synapse. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950170.	1.0	39
647	Distinct Calcium Sources Define Compartmentalized Synaptic Signaling Domains. <i>Neuroscientist</i> , 2019, 25, 408-419.	2.6	1
648	&lt;p&gt;Electrostatic complex of neurotrophin 4 with dendrimer nanoparticles: controlled release of protein in vitro and in vivo&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 6117-6131.	3.3	8
649	Theta burst stimulation influence the expression of BDNF in the spinal cord on the experimental autoimmune encephalomyelitis. <i>Folia Neuropathologica</i> , 2019, 57, 129-145.	0.5	15
650	The Role of Altered BDNF/TrkB Signaling in Amyotrophic Lateral Sclerosis. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 368.	1.8	87
651	Histone deacetylases inhibitor trichostatin A reverses anxiety-like symptoms and memory impairments induced by maternal binge alcohol drinking in mice. <i>Journal of Psychopharmacology</i> , 2019, 33, 1573-1587.	2.0	15
652	Associations between serum and plasma brain-derived neurotrophic factor and influence of storage time and centrifugation strategy. <i>Scientific Reports</i> , 2019, 9, 9655.	1.6	103
653	Antitumor Activities and Cellular Changes Induced by TrkB Inhibition in Medulloblastoma. <i>Frontiers in Pharmacology</i> , 2019, 10, 698.	1.6	15
655	Potential Negative Effects of Dextromethorphan as an Add-On Therapy to Methylphenidate in Children With ADHD. <i>Frontiers in Psychiatry</i> , 2019, 10, 437.	1.3	3
656	Proteomic Approaches to Dissect Neuronal Signalling Pathways. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 469-475.	0.8	2
657	Regulation of Acetylcholine Quantal Release by Coupled Thrombin/BDNF Signaling in Mouse Motor Synapses. <i>Cells</i> , 2019, 8, 762.	1.8	11
658	Levels of cortisol and neurotrophic factor brain-derived in Parkinson's disease. <i>Neuroscience Letters</i> , 2019, 708, 134359.	1.0	19
659	BDNF and endocannabinoids in brain development: neuronal commitment, migration, and synaptogenesis. , 2019, , 133-147.		0
660	Optochemogenetic Stimulation of Transplanted iPS-NPCs Enhances Neuronal Repair and Functional Recovery after Ischemic Stroke. <i>Journal of Neuroscience</i> , 2019, 39, 6571-6594.	1.7	67

#	ARTICLE	IF	CITATIONS
661	Potential Utility of Biased GPCR Signaling for Treatment of Psychiatric Disorders. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3207.	1.8	24
662	MEA6 Deficiency Impairs Cerebellar Development and Motor Performance by Tethering Protein Trafficking. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 250.	1.8	9
663	Elevation of endocannabinoids in the brain by synthetic cannabinoid JWH-018: mechanism and effect on learning and memory. <i>Scientific Reports</i> , 2019, 9, 9621.	1.6	9
664	Convergent neurobiological predictors of mood and anxiety symptoms and treatment response. <i>Expert Review of Neurotherapeutics</i> , 2019, 19, 587-597.	1.4	11
665	BDNF increases synaptic NMDA receptor abundance by enhancing the local translation of Pyk2 in cultured hippocampal neurons. <i>Science Signaling</i> , 2019, 12, .	1.6	24
666	Early-Stage Ocular Hypertension Alters Retinal Ganglion Cell Synaptic Transmission in the Visual Thalamus. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 426.	1.8	21
667	A novel neurobehavioral framework of the effects of positive early postnatal experience on incentive and consummatory reward sensitivity. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 107, 615-640.	2.9	11
668	Reduced neonatal brain-derived neurotrophic factor is associated with autism spectrum disorders. <i>Translational Psychiatry</i> , 2019, 9, 252.	2.4	56
669	BDNF downregulates $\beta$ -adrenergic receptor-mediated hypotensive mechanisms in the paraventricular nucleus of the hypothalamus. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H1258-H1271.	1.5	9
670	Novel BDNF-regulatory microRNAs in neurodegenerative disorders pathogenesis: An in silico study. <i>Computational Biology and Chemistry</i> , 2019, 83, 107153.	1.1	16
671	Transcriptional regulatory divergence underpinning species-specific learned vocalization in songbirds. <i>PLoS Biology</i> , 2019, 17, e3000476.	2.6	24
672	The Low Molecular Weight Brain-derived Neurotrophic Factor Mimetics with Antidepressant-like Activity. <i>Current Pharmaceutical Design</i> , 2019, 25, 729-737.	0.9	18
673	Perineuronal Nets and Their Role in Synaptic Homeostasis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4108.	1.8	54
674	The Beijing Twin Study (BeTwiSt): An Update. <i>Twin Research and Human Genetics</i> , 2019, 22, 486-491.	0.3	3
675	Regulation of adult hippocampal neurogenesis exerted by sexual, cognitive and physical activity: An update. <i>Journal of Chemical Neuroanatomy</i> , 2019, 101, 101667.	1.0	11
676	Copper complexes of synthetic peptides mimicking neurotrophin-3 enhance neurite outgrowth and CREB phosphorylation. <i>Metallomics</i> , 2019, 11, 1567-1578.	1.0	10
677	Balanced actions of protein synthesis and degradation in memory formation. <i>Learning and Memory</i> , 2019, 26, 299-306.	0.5	11
678	The Model of Aging Acceleration Network Reveals the Correlation of Alzheimer's Disease and Aging at System Level. <i>BioMed Research International</i> , 2019, 2019, 1-11.	0.9	15

#	ARTICLE	IF	CITATIONS
679	Screening inducers of neuronal BDNF gene transcription using primary cortical cell cultures from BDNF-luciferase transgenic mice. <i>Scientific Reports</i> , 2019, 9, 11833.	1.6	18
680	Impact of Chronic BDNF Depletion on GABAergic Synaptic Transmission in the Lateral Amygdala. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4310.	1.8	8
681	Social Environment and Epigenetics. <i>Current Topics in Behavioral Neurosciences</i> , 2019, 42, 83-126.	0.8	12
682	Combination of Chemical and Neurotrophin Stimulation Modulates Neurotransmitter Receptor Expression and Activity in Transdifferentiating Human Adipose Stromal Cells. <i>Stem Cell Reviews and Reports</i> , 2019, 15, 851-863.	1.7	5
683	On the Involvement of BDNF Signaling in Memory Reconsolidation. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 383.	1.8	33
684	BDNF Val66Met polymorphism moderates the association between sleep spindles and overnight visual recognition. <i>Behavioural Brain Research</i> , 2019, 375, 112157.	1.2	8
685	Maternal Obesity Alters Neurotrophin-Associated MAPK Signaling in the Hypothalamus of Male Mouse Offspring. <i>Frontiers in Neuroscience</i> , 2019, 13, 962.	1.4	20
686	MeCP2: A Critical Regulator of Chromatin in Neurodevelopment and Adult Brain Function. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4577.	1.8	39
687	Effects of Treadmill Exercise on Motor and Cognitive Function Recovery of MCAO Mice Through the Caveolin-1/VEGF Signaling Pathway in Ischemic Penumbra. <i>Neurochemical Research</i> , 2019, 44, 930-946.	1.6	35
688	The effects of rotenone on TH, BDNF and BDNF-related proteins in the brain and periphery: Relevance to early Parkinson's disease. <i>Journal of Chemical Neuroanatomy</i> , 2019, 97, 23-32.	1.0	8
689	Abnormal <i>TDP-43</i> function impairs activity-dependent BDNF secretion, synaptic plasticity, and cognitive behavior through altered Sortilin splicing. <i>EMBO Journal</i> , 2019, 38, .	3.5	28
690	Promoting Brain Repair and Regeneration After Stroke: a Plea for Cell-Based Therapies. <i>Current Neurology and Neuroscience Reports</i> , 2019, 19, 5.	2.0	12
691	TrkB-expressing neurons in the dorsomedial hypothalamus are necessary and sufficient to suppress homeostatic feeding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3256-3261.	3.3	52
692	A genetic model of CEDNIK syndrome in zebrafish highlights the role of the SNARE protein Snap29 in neuromotor and epidermal development. <i>Scientific Reports</i> , 2019, 9, 1211.	1.6	19
693	Functional rs6265 polymorphism in the brain-derived neurotrophic factor gene confers protection against neurocognitive dysfunction in posttraumatic stress disorder among Chinese patients with hepatocellular carcinoma. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 10434-10443.	1.2	15
694	BDNF elevates the axonal levels of hnRNPs Q and R in cultured rat cortical neurons. <i>Molecular and Cellular Neurosciences</i> , 2019, 98, 97-108.	1.0	2
695	Genetic Deletion of GABAA Receptors Reveals Distinct Requirements of Neurotransmitter Receptors for GABAergic and Glutamatergic Synapse Development. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 217.	1.8	7
696	Long-term environmental modifications affect BDNF concentrations in rat hippocampus, but not in serum. <i>Behavioural Brain Research</i> , 2019, 372, 111965.	1.2	13

#	ARTICLE	IF	CITATIONS
697	Accelerated Deficits of Spatial Learning and Memory Resulting From Prenatal Inflammatory Insult Are Correlated With Abnormal Phosphorylation and Methylation of Histone 3 in CD-1 Mice. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 114.	1.7	10
698	Electro-Acupuncture Ameliorated MPTP-Induced Parkinsonism in Mice via TrkB Neurotrophic Signaling. <i>Frontiers in Neuroscience</i> , 2019, 13, 496.	1.4	14
699	Reduced Alcohol Seeking and Withdrawal Symptoms in Mice Lacking the BDNF Receptor SorCS2. <i>Frontiers in Pharmacology</i> , 2019, 10, 499.	1.6	7
700	Neurobiological effects of aerobic exercise, with a focus on patients with schizophrenia. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2019, 269, 499-515.	1.8	35
701	Identification and Expression of Neurotrophin-6 in the Brain of <i>Nothobranchius furzeri</i> : One More Piece in Neurotrophin Research. <i>Journal of Clinical Medicine</i> , 2019, 8, 595.	1.0	12
702	Loss of Adaptive Myelination Contributes to Methotrexate Chemotherapy-Related Cognitive Impairment. <i>Neuron</i> , 2019, 103, 250-265.e8.	3.8	177
703	BDNF pro-peptide: physiological mechanisms and implications for depression. <i>Cell and Tissue Research</i> , 2019, 377, 73-79.	1.5	28
704	The Chinese Herbal Formula PAPZ Ameliorates Behavioral Abnormalities in Depressive Mice. <i>Nutrients</i> , 2019, 11, 859.	1.7	11
705	Theobromine Improves Working Memory by Activating the CaMKII/CREB/BDNF Pathway in Rats. <i>Nutrients</i> , 2019, 11, 888.	1.7	33
706	Activity-Dependent Secretion of Synaptic Organizer Cbln1 from Lysosomes in Granule Cell Axons. <i>Neuron</i> , 2019, 102, 1184-1198.e10.	3.8	42
707	A kinetic model for Brain-Derived Neurotrophic Factor mediated spike timing-dependent LTP. <i>PLoS Computational Biology</i> , 2019, 15, e1006975.	1.5	9
708	Molecular Mechanisms of Synaptic Dysregulation in Fragile X Syndrome and Autism Spectrum Disorders. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 51.	1.4	58
709	7,8-Dihydroxyflavone potentiates ongoing epileptiform activity in mice brain slices. <i>Neuroscience Letters</i> , 2019, 703, 25-31.	1.0	8
710	Benefits of Gardening Activities for Cognitive Function According to Measurement of Brain Nerve Growth Factor Levels. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 760.	1.2	26
711	A role for FNDC5/Irisin in the beneficial effects of exercise on the brain and in neurodegenerative diseases. <i>Progress in Cardiovascular Diseases</i> , 2019, 62, 172-178.	1.6	82
712	Long-term exercise training improves memory in middle-aged men and modulates peripheral levels of BDNF and Cathepsin B. <i>Scientific Reports</i> , 2019, 9, 3337.	1.6	79
713	Modulatory effects of swimming exercise against malathion induced neurotoxicity in male and female rats. <i>Pesticide Biochemistry and Physiology</i> , 2019, 157, 13-18.	1.6	11
714	Intrinsic gray-matter connectivity of the brain in major depressive disorder. <i>Journal of Affective Disorders</i> , 2019, 251, 78-85.	2.0	17



#	ARTICLE	IF	CITATIONS
715	Enhancing the expression of neurotrophic factors in epidermal neural crest stem cells by valproic acid: A potential candidate for combinatorial treatment. <i>Neuroscience Letters</i> , 2019, 704, 8-14.	1.0	19
716	Emerging connections between cerebellar development, behaviour and complex brain disorders. <i>Nature Reviews Neuroscience</i> , 2019, 20, 298-313.	4.9	186
717	Dopamine stimulates differentiation and migration of cortical interneurons. <i>Biochemical and Biophysical Research Communications</i> , 2019, 512, 577-583.	1.0	9
718	Cerebrospinal fluid BDNF pro-peptide levels in major depressive disorder and schizophrenia. <i>Journal of Psychiatric Research</i> , 2019, 113, 190-198.	1.5	32
719	Effects of corticosterone on the expression of mature brain-derived neurotrophic factor (mBDNF) and proBDNF in the hippocampal dentate gyrus. <i>Behavioural Brain Research</i> , 2019, 365, 150-156.	1.2	23
720	Developmental Remodeling of Thalamic Interneurons Requires Retinal Signaling. <i>Journal of Neuroscience</i> , 2019, 39, 3856-3866.	1.7	29
721	<p>&gt;Evaluation of serum levels of neurotrophin 4 and brain-derived nerve growth factor in uremic pruritus patients</p>&gt;. <i>Clinical, Cosmetic and Investigational Dermatology</i> , 2019, Volume 12, 109-114.	0.8	12
722	Human Sensory LTP Predicts Memory Performance and Is Modulated by the BDNF Val66Met Polymorphism. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 22.	1.0	23
723	Cognitive impairment in an animal model of multiple sclerosis and its amelioration by glatiramer acetate. <i>Scientific Reports</i> , 2019, 9, 4140.	1.6	29
724	Emerging Role of Schwann Cells in Neuropathic Pain: Receptors, Glial Mediators and Myelination. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 116.	1.8	101
725	Social enrichment reverses the isolation-induced deficits of neuronal plasticity in the hippocampus of male rats. <i>Neuropharmacology</i> , 2019, 151, 45-54.	2.0	46
726	Prominent Postsynaptic and Dendritic Exocytosis of Endogenous BDNF Vesicles in BDNF-GFP Knock-in Mice. <i>Molecular Neurobiology</i> , 2019, 56, 6833-6855.	1.9	22
727	Glutamatergic Innervation onto Striatal Neurons Potentiates GABAergic Synaptic Output. <i>Journal of Neuroscience</i> , 2019, 39, 4448-4460.	1.7	18
728	Mechanisms That Modulate and Diversify BDNF Functions: Implications for Hippocampal Synaptic Plasticity. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 135.	1.8	88
729	Tumor Neurobiology and the War of Nerves in Cancer. <i>Cancer Discovery</i> , 2019, 9, 702-710.	7.7	163
730	TrkB Activation during a Critical Period Mimics the Protective Effects of Early Visual Experience on Perception and the Stability of Receptive Fields in Adult Superior Colliculus. <i>Journal of Neuroscience</i> , 2019, 39, 4475-4488.	1.7	5
731	Are the neuroprotective effects of exercise training systemically mediated?. <i>Progress in Cardiovascular Diseases</i> , 2019, 62, 94-101.	1.6	76
732	Antibiotic treatment-induced dysbiosis differently affects BDNF and TrkB expression in the brain and in the gut of juvenile mice. <i>PLoS ONE</i> , 2019, 14, e0212856.	1.1	54

#	ARTICLE	IF	CITATIONS
733	The impact of the combination of kidney and physical function on cognitive decline over 2Âyears in older adults with pre-dialysis chronic kidney disease. <i>Clinical and Experimental Nephrology</i> , 2019, 23, 756-762.	0.7	6
734	RasGRF1 mediates brain-derived neurotrophic factor-induced axonal growth in primary cultured cortical neurons. <i>Biochemistry and Biophysics Reports</i> , 2019, 17, 56-64.	0.7	9
735	The glycine site of NMDA receptors: A target for cognitive enhancement in psychiatric disorders. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 92, 387-404.	2.5	51
736	The Astrocytic cAMP Pathway in Health and Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 779.	1.8	28
737	The Neurotrophic Hypothesis of Depression Revisited: New Insights and Therapeutic Implications. , 2019, , 43-62.		11
738	Nuclear import of the <sc>DSCAM</sc> cytoplasmic domain drives signaling capable of inhibiting synapse formation. <i>EMBO Journal</i> , 2019, 38, .	3.5	37
739	Downregulation of TrkB Expression and Signaling by Valproic Acid and Other Histone Deacetylase Inhibitors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 490-503.	1.3	19
740	The influence of physical activity on the functioning of the nervous system and cognitive processes â€“ research review. <i>Neuropsychiatry I Neuropsychologia</i> , 2019, 14, 84-91.	0.3	4
741	Astrocyte morphogenesis is dependent on BDNF signaling via astrocytic TrkB.T1. <i>ELife</i> , 2019, 8, .	2.8	102
742	Dietary Flavonoids Interaction with CREB-BDNF Pathway: An Unconventional Approach for Comprehensive Management of Epilepsy. <i>Current Neuropharmacology</i> , 2019, 17, 1158-1175.	1.4	52
743	Inositide-Dependent Nuclear Signalling in Health and Disease. <i>Handbook of Experimental Pharmacology</i> , 2019, 259, 291-308.	0.9	5
744	Effect of exercise training on the FNDC5/BDNF pathway in spontaneously hypertensive rats. <i>Physiological Reports</i> , 2019, 7, e14323.	0.7	11
746	Neurobiological characteristics underlying metabolic differences between males and females. <i>Progress in Neurobiology</i> , 2019, 176, 18-32.	2.8	16
747	The MEK/ERK/CREB signaling pathway is involved in atrazine induced hippocampal neurotoxicity in Sprague Dawley rats. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 673-681.	2.9	26
748	Features of Neural Network Formation and Their Functions in Primary Hippocampal Cultures in the Context of Chronic TrkB Receptor System Influence. <i>Frontiers in Physiology</i> , 2018, 9, 1925.	1.3	22
749	Fear of cancer recurrence among breast cancer survivors could be controlled by prudent dietary modification with polyunsaturated fatty acids. <i>Journal of Affective Disorders</i> , 2019, 245, 1114-1118.	2.0	6
750	Activation of Angiogenic Circuits Instigates Resistance to Diet-Induced Obesity via Increased Energy Expenditure. <i>Cell Metabolism</i> , 2019, 29, 917-931.e4.	7.2	31
751	Spatial memory in Huntingtonâ€™s disease: A comparative review of human and animal data. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 98, 194-207.	2.9	17

#	ARTICLE	IF	CITATIONS
752	Local Delivery of Brain-Derived Neurotrophic Factor Enables Behavioral Recovery and Tissue Repair in Stroke-Injured Rats. <i>Tissue Engineering - Part A</i> , 2019, 25, 1175-1187.	1.6	40
753	Deep brain stimulation: potential for neuroprotection. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 174-185.	1.7	50
754	TrkB neurotrophin receptor at the core of antidepressant effects, but how?. <i>Cell and Tissue Research</i> , 2019, 377, 115-124.	1.5	30
755	Changes in neuroplasticity following early-life social adversities: the possible role of brain-derived neurotrophic factor. <i>Pediatric Research</i> , 2019, 85, 225-233.	1.1	15
756	Loss of Shp2 Rescues BDNF/TrkB Signaling and Contributes to Improved Retinal Ganglion Cell Neuroprotection. <i>Molecular Therapy</i> , 2019, 27, 424-441.	3.7	39
757	Replication and Meta-analysis of the Association between BDNF Val66Met Polymorphism and Cognitive Impairment in Patients Receiving Chemotherapy. <i>Molecular Neurobiology</i> , 2019, 56, 4741-4750.	1.9	20
758	Brain-Derived Neurotrophic Factor (BDNF): Novel Insights into Regulation and Genetic Variation. <i>Neuroscientist</i> , 2019, 25, 434-454.	2.6	103
759	Protective effects of astaxanthin on subarachnoid hemorrhage-induced early brain injury: Reduction of cerebral vasospasm and improvement of neuron survival and mitochondrial function. <i>Acta Histochemica</i> , 2019, 121, 56-63.	0.9	28
760	Hypoxia-mediated alteration in cholesterol oxidation and raft dynamics regulates BDNF signalling and neurodegeneration in hippocampus. <i>Journal of Neurochemistry</i> , 2019, 148, 238-251.	2.1	18
761	Neuronal excitability and spontaneous synaptic transmission in the entorhinal cortex of BDNF heterozygous mice. <i>Neuroscience Letters</i> , 2019, 690, 69-75.	1.0	14
762	Molecular Mechanisms of Early and Late LTP. <i>Neurochemical Research</i> , 2019, 44, 281-296.	1.6	90
763	Molecular Pharmacology and Neurobiology of Rapid-Acting Antidepressants. <i>Annual Review of Pharmacology and Toxicology</i> , 2019, 59, 213-236.	4.2	98
764	Disruption of MET Receptor Tyrosine Kinase, an Autism Risk Factor, Impairs Developmental Synaptic Plasticity in the Hippocampus. <i>Developmental Neurobiology</i> , 2019, 79, 36-50.	1.5	16
765	Overexpression of P2X4 receptor in Schwann cells promotes motor and sensory functional recovery and remyelination via BDNF secretion after nerve injury. <i>Glia</i> , 2019, 67, 78-90.	2.5	69
766	Pharmacological insights into impulsive-compulsive spectrum disorders associated with dopaminergic therapy. <i>European Journal of Neuroscience</i> , 2019, 50, 2492-2502.	1.2	9
767	Rhythmic low-field magnetic stimulation may improve depression by increasing brain-derived neurotrophic factor. <i>CNS Spectrums</i> , 2019, 24, 313-321.	0.7	11
768	Methylome-wide association findings for major depressive disorder overlap in blood and brain and replicate in independent brain samples. <i>Molecular Psychiatry</i> , 2020, 25, 1344-1354.	4.1	61
769	Omega-3 fatty acids and anxiety: A systematic review of the possible mechanisms at play. <i>Nutritional Neuroscience</i> , 2020, 23, 494-504.	1.5	10

#	ARTICLE	IF	CITATIONS
770	Action-Outcome Expectancies Require Orbitofrontal Neurotrophin Systems in Na <sup>+</sup> -ve and Cocaine-Exposed Mice. <i>Neurotherapeutics</i> , 2020, 17, 165-177.	2.1	5
771	Intensity Matters: High-intensity Interval Exercise Enhances Motor Cortex Plasticity More Than Moderate Exercise. <i>Cerebral Cortex</i> , 2020, 30, 101-112.	1.6	62
772	Distinct effects of acute exercise and breaks in sitting on working memory and executive function in older adults: a three-arm, randomised cross-over trial to evaluate the effects of exercise with and without breaks in sitting on cognition. <i>British Journal of Sports Medicine</i> , 2020, 54, 776-781.	3.1	60
773	Synaptic Connectivity and Cortical Maturation Are Promoted by the $\omega$ -3 Fatty Acid Docosahexaenoic Acid. <i>Cerebral Cortex</i> , 2020, 30, 226-240.	1.6	15
774	Supplementation of dietary non-digestible oligosaccharides from birth onwards improve social and reduce anxiety-like behaviour in male BALB/c mice. <i>Nutritional Neuroscience</i> , 2020, 23, 896-910.	1.5	27
775	Interaction of Cannabis Use and Aging: From Molecule to Mind. <i>Journal of Dual Diagnosis</i> , 2020, 16, 140-176.	0.7	11
776	The noradrenergic system is necessary for survival of vulnerable midbrain dopaminergic neurons: implications for development and Parkinson's disease. <i>Neurobiology of Aging</i> , 2020, 85, 22-37.	1.5	21
777	Improving fitness increases dentate gyrus/CA3 volume in the hippocampal head and enhances memory in young adults. <i>Hippocampus</i> , 2020, 30, 488-504.	0.9	38
778	Neuroinflammation and neuroprotection in schizophrenia and autism spectrum disorder. , 2020, , 101-122.		1
779	The "Use It or Lose It" Dogma in the Retina: Visual Stimulation Promotes Protection Against Retinal Ischemia. <i>Molecular Neurobiology</i> , 2020, 57, 435-449.	1.9	6
780	Direct current stimulation-induced synaptic plasticity in the sensorimotor cortex: structure follows function. <i>Brain Stimulation</i> , 2020, 13, 80-88.	0.7	30
781	Maternal separation in rodents: a journey from gut to brain and nutritional perspectives. <i>Proceedings of the Nutrition Society</i> , 2020, 79, 113-132.	0.4	33
782	BDNF Controls Bidirectional Endocannabinoid Plasticity at Corticostriatal Synapses. <i>Cerebral Cortex</i> , 2020, 30, 197-214.	1.6	20
783	Acute forced exercise increases Bdnf IV mRNA and reduces exploratory behavior in C57BL/6J mice. <i>Genes, Brain and Behavior</i> , 2020, 19, e12617.	1.1	5
784	Consensus Paper. Cerebellar Reserve: From Cerebellar Physiology to Cerebellar Disorders. <i>Cerebellum</i> , 2020, 19, 131-153.	1.4	89
785	Co-administration of ethanol and nicotine heightens sensitivity to ethanol reward within the nucleus accumbens (NAc) shell and increasing NAc shell BDNF is sufficient to enhance ethanol reward in na <sup>+</sup> -ve Wistar rats. <i>Journal of Neurochemistry</i> , 2020, 152, 556-569.	2.1	14
786	Irisin increases the expression of anorexigenic and neurotrophic genes in mouse brain. <i>Diabetes/Metabolism Research and Reviews</i> , 2020, 36, e3238.	1.7	21
787	Citalopram prevents sleep-deprivation-induced reduction in CaMKII-CREB-BDNF signaling in mouse prefrontal cortex. <i>Brain Research Bulletin</i> , 2020, 155, 11-18.	1.4	13

#	ARTICLE	IF	CITATIONS
788	4-MeO-PCP and 3-MeO-PCMo, new dissociative drugs, produce rewarding and reinforcing effects through activation of mesolimbic dopamine pathway and alteration of accumbal CREB, deltaFosB, and BDNF levels. <i>Psychopharmacology</i> , 2020, 237, 757-772.	1.5	15
789	Neurotrophic factors in the posterodorsal medial amygdala of male and cycling female rats. <i>Brain Research Bulletin</i> , 2020, 155, 92-101.	1.4	1
790	Parkinson's Disease-Associated Changes in the Expression of Neurotrophic Factors and their Receptors upon Neuronal Differentiation of Human Induced Pluripotent Stem Cells. <i>Journal of Molecular Neuroscience</i> , 2020, 70, 514-521.	1.1	11
791	BDNF induces in vivo long-lasting enhancement of synaptic transmission and structural reorganization at the hippocampal mossy fibers in a transcription and translation-independent manner. <i>Neurobiology of Learning and Memory</i> , 2020, 167, 107125.	1.0	8
792	Control of cortical synapse development and plasticity by MET receptor tyrosine kinase, a genetic risk factor for autism. <i>Journal of Neuroscience Research</i> , 2020, 98, 2115-2129.	1.3	8
793	Isoflurane preconditioning effects on brain damage induced by electromagnetic pulse radiation through epigenetic modification of BDNF gene transcription. <i>Annals of Palliative Medicine</i> , 2020, 9, 3418-3427.	0.5	4
794	Gut-Brain Axis: Role of Gut Microbiota on Neurological Disorders and How Probiotics/Prebiotics Beneficially Modulate Microbial and Immune Pathways to Improve Brain Functions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7551.	1.8	131
795	Up-regulation of the p75 neurotrophin receptor is an essential mechanism for HIV-gp120 mediated synaptic loss in the striatum. <i>Brain, Behavior, and Immunity</i> , 2020, 89, 371-379.	2.0	20
796	Treadmill exercise mitigates neuroinflammation and increases BDNF via activation of SIRT1 signaling in a mouse model of T2DM. <i>Brain Research Bulletin</i> , 2020, 165, 30-39.	1.4	25
797	L1cam curbs the differentiation of adult-born hippocampal neurons. <i>Stem Cell Research</i> , 2020, 48, 101999.	0.3	8
798	Astrocytes from cortex and striatum show differential responses to mitochondrial toxin and BDNF: implications for protection of striatal neurons expressing mutant huntingtin. <i>Journal of Neuroinflammation</i> , 2020, 17, 290.	3.1	19
799	The stress susceptibility factor FKBP51 controls S-ketamine-evoked release of mBDNF in the prefrontal cortex of mice. <i>Neurobiology of Stress</i> , 2020, 13, 100239.	1.9	18
800	Peripheral BDNF Response to Physical and Cognitive Exercise and Its Association With Cardiorespiratory Fitness in Healthy Older Adults. <i>Frontiers in Physiology</i> , 2020, 11, 1080.	1.3	13
801	Fingolimod increases oligodendrocytes markers expression in epidermal neural crest stem cells. <i>European Journal of Pharmacology</i> , 2020, 885, 173502.	1.7	10
802	The emerging role of the BDNF-TrkB signaling pathway in the modulation of pain perception. <i>Journal of Neuroimmunology</i> , 2020, 349, 577406.	1.1	66
803	Dosage-sensitive genes in autism spectrum disorders: From neurobiology to therapy. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 118, 538-567.	2.9	17
804	Alcohol as an early life stressor: Epigenetics, metabolic, neuroendocrine and neurobehavioral implications. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 118, 654-668.	2.9	33
805	Extrahypothalamic oxytocin neurons drive stress-induced social vigilance and avoidance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26406-26413.	3.3	78

#	ARTICLE	IF	CITATIONS
806	Distinct Target-Specific Mechanisms Homeostatically Stabilize Transmission at Pre- and Post-synaptic Compartments. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 196.	1.8	9
807	Neurotrophin and synaptogenesis. , 2020, , 167-192.		4
808	Protection of Cochlear Ribbon Synapses and Prevention of Hidden Hearing Loss. <i>Neural Plasticity</i> , 2020, 2020, 1-11.	1.0	7
809	Methamphetamine Increases the Proportion of SIV-Infected Microglia/Macrophages, Alters Metabolic Pathways, and Elevates Cell Death Pathways: A Single-Cell Analysis. <i>Viruses</i> , 2020, 12, 1297.	1.5	28
810	&lt;p&gt;LncRNA KCNQ1OT1 Sponges miR-206 to Ameliorate Neural Injury Induced by Anesthesia via Up-Regulating BDNF&lt;/p&gt;. <i>Drug Design, Development and Therapy</i> , 2020, Volume 14, 4789-4800.	2.0	18
811	Mini-Review: Bioactivities of Bacterial Cell Envelopes in the Central Nervous System. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 588378.	1.8	4
812	Beyond Haemostasis and Thrombosis: Platelets in Depression and Its Co-Morbidities. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8817.	1.8	32
813	Unfolding the Role of BDNF as a Biomarker for Treatment of Depression. <i>Journal of Molecular Neuroscience</i> , 2021, 71, 2008-2021.	1.1	58
814	2-Phenylethylamine (PEA) Ameliorates Corticosterone-Induced Depression-Like Phenotype via the BDNF/TrkB/CREB Signaling Pathway. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9103.	1.8	38
815	Dopamine D1 and Glutamate Receptors Co-operate With Brain-Derived Neurotrophic Factor (BDNF) and TrkB to Modulate ERK Signaling in Adult Striatal Slices. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 564106.	1.8	13
816	Electrically stimulated hind limb muscle contractions increase adult hippocampal astroglialogenesis but not neurogenesis or behavioral performance in male C57BL/6J mice. <i>Scientific Reports</i> , 2020, 10, 19319.	1.6	6
817	Ginsenoside Rk1 alleviates LPS-induced depression-like behavior in mice by promoting BDNF and suppressing the neuroinflammatory response. <i>Biochemical and Biophysical Research Communications</i> , 2020, 530, 658-664.	1.0	25
818	Associations of plasma brain-derived neurotrophic factor (BDNF) and Val66Met polymorphism (rs6265) with long-term cancer-related cognitive impairment in survivors of breast cancer. <i>Breast Cancer Research and Treatment</i> , 2020, 183, 683-696.	1.1	17
819	Innate chemical, but not visual, threat cues have been co&eopted as unconditioned stimulus for social fear learning in zebrafish. <i>Genes, Brain and Behavior</i> , 2020, 19, e12688.	1.1	10
820	Effects of Physical Exercise on Autophagy and Apoptosis in Aged Brain: Human and Animal Studies. <i>Frontiers in Nutrition</i> , 2020, 7, 94.	1.6	27
821	Role of neurotrophins in pregnancy and offspring brain development. <i>Neuropeptides</i> , 2020, 83, 102075.	0.9	34
822	Pain catastrophizing is associated with the Val66Met polymorphism of the brain-derived neurotrophic factor in fibromyalgia. <i>Advances in Rheumatology</i> , 2020, 60, 39.	0.8	14
823	Peroxisome Deficiency Impairs BDNF Signaling and Memory. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 567017.	1.8	7

#	ARTICLE	IF	CITATIONS
824	Neurotrophic Factor BDNF, Physiological Functions and Therapeutic Potential in Depression, Neurodegeneration and Brain Cancer. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7777.	1.8	345
825	Lower brain-derived neurotrophic factor levels are associated with age-related memory impairment in community-dwelling older adults: the Sefuri study. <i>Scientific Reports</i> , 2020, 10, 16442.	1.6	33
826	Brain-derived neurotrophic factor and cortisol levels negatively predict working memory performance in healthy males. <i>Neurobiology of Learning and Memory</i> , 2020, 175, 107308.	1.0	4
827	Functional validation of a human GLUD2 variant in a murine model of Parkinson's disease. <i>Cell Death and Disease</i> , 2020, 11, 897.	2.7	9
828	Reduced Dendritic Spines in the Visual Cortex Contralateral to the Optic Nerve Crush Eye in Adult Mice. , 2020, 61, 55.		10
829	BDNF Activates Postsynaptic TrkB Receptors to Induce Endocannabinoid Release and Inhibit Presynaptic Calcium Influx at a Calyx-Type Synapse. <i>Journal of Neuroscience</i> , 2020, 40, 8070-8087.	1.7	21
830	Neural expression of sorting nexin 25 and its regulation of tyrosine receptor kinase B trafficking. <i>Brain Structure and Function</i> , 2020, 225, 2615-2642.	1.2	3
831	Artificial cells drive neural differentiation. <i>Science Advances</i> , 2020, 6, .	4.7	78
832	Common Protective Strategies in Neurodegenerative Disease: Focusing on Risk Factors to Target the Cellular Redox System. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-18.	1.9	34
833	Obesity is Associated with Reduced Plasticity of the Human Motor Cortex. <i>Brain Sciences</i> , 2020, 10, 579.	1.1	11
834	Modulation of Human Adipose Stem Cells' Neurotrophic Capacity Using a Variety of Growth Factors for Neural Tissue Engineering Applications: Axonal Growth, Transcriptional, and Phosphoproteomic Analyses In Vitro. <i>Cells</i> , 2020, 9, 1939.	1.8	10
835	Expression and pharmacological inhibition of TrkB and EGFR in glioblastoma. <i>Molecular Biology Reports</i> , 2020, 47, 6817-6828.	1.0	4
836	A comprehensive p75 neurotrophin receptor gene network and pathway analyses identifying new target genes. <i>Scientific Reports</i> , 2020, 10, 14984.	1.6	10
837	Axon Regeneration in the Mammalian Optic Nerve. <i>Annual Review of Vision Science</i> , 2020, 6, 195-213.	2.3	101
838	The physiology of regulated BDNF release. <i>Cell and Tissue Research</i> , 2020, 382, 15-45.	1.5	91
839	Journey of brain-derived neurotrophic factor: from intracellular trafficking to secretion. <i>Cell and Tissue Research</i> , 2020, 382, 125-134.	1.5	14
840	Visualization of activity-regulated BDNF expression in the living mouse brain using non-invasive near-infrared bioluminescence imaging. <i>Molecular Brain</i> , 2020, 13, 122.	1.3	8
841	Neurotrophin Signaling in Medulloblastoma. <i>Cancers</i> , 2020, 12, 2542.	1.7	25

#	ARTICLE	IF	CITATIONS
842	Neurotrophic factors and target-specific retrograde signaling interactions define the specificity of classical and neuropeptide cotransmitter release at identified <i>Lymnaea</i> synapses. <i>Scientific Reports</i> , 2020, 10, 13526.	1.6	4
843	Glucosamine Enhancement of BDNF Expression and Animal Cognitive Function. <i>Molecules</i> , 2020, 25, 3667.	1.7	10
844	Transcriptomic, proteomic, and biochemical analyses reveal a novel neuritogenesis mechanism of <i>Naja najavenom</i> Î±-elapitoxin post binding to TrkA receptor of rat pheochromocytoma cells. <i>Journal of Neurochemistry</i> , 2020, 155, 612-637.	2.1	2
845	Evaluation of a TrkB agonist on spatial and motor learning in the <i>Ube3a</i> mouse model of Angelman syndrome. <i>Learning and Memory</i> , 2020, 27, 346-354.	0.5	4
846	Expression pattern of brain-derived neurotrophic factor and its associated receptors: Implications for exogenous neurotrophin application. <i>Hearing Research</i> , 2022, 413, 108098.	0.9	12
847	Brain-Derived Neurotrophic Factor Val66Met polymorphism interacts with adolescent stress to alter hippocampal interneuron density and dendritic morphology in mice. <i>Neurobiology of Stress</i> , 2020, 13, 100253.	1.9	6
848	Effects of estrogen deprivation on memory and expression of related proteins in ovariectomized mice. <i>Annals of Translational Medicine</i> , 2020, 8, 356-356.	0.7	12
849	Alteration in the Expression of Parkinson-Related Genes in Rat Hippocampus by Exercise and Morphine Treatments. <i>Russian Journal of Genetics</i> , 2020, 56, 502-508.	0.2	1
850	The Role of BDNF on Aging-Modulation Markers. <i>Brain Sciences</i> , 2020, 10, 285.	1.1	33
851	Effects of Long-Term Endurance Exercise and Lithium Treatment on Neuroprotective Factors in Hippocampus of Obese Rats. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3317.	1.2	6
852	Prediction equation for estimating cognitive function using physical fitness parameters in older adults. <i>PLoS ONE</i> , 2020, 15, e0232894.	1.1	6
853	The BDNF Val66Met Polymorphism Modulates Resilience of Neurological Functioning to Brain Ageing and Dementia: A Narrative Review. <i>Brain Sciences</i> , 2020, 10, 195.	1.1	27
854	Function and Mechanisms of Truncated BDNF Receptor TrkB.T1 in Neuropathic Pain. <i>Cells</i> , 2020, 9, 1194.	1.8	47
855	A Single Bout of High-intensity Interval Exercise Increases Corticospinal Excitability, Brain-derived Neurotrophic Factor, and Uncarboxylated Osteocalcin in Sedentary, Healthy Males. <i>Neuroscience</i> , 2020, 437, 242-255.	1.1	34
856	Effects of exercise on BDNF-TrkB signaling in the paraventricular nucleus and rostral ventrolateral medulla in rats post myocardial infarction. <i>Neuropeptides</i> , 2020, 82, 102058.	0.9	6
857	Serum BDNF Levels Are Reduced in Patients with Disorders of Consciousness and Are Not Modified by Verticalization with Robot-Assisted Lower-Limb Training. <i>Neural Plasticity</i> , 2020, 2020, 1-7.	1.0	10
858	Metformin regulates astrocyte reactivity in Parkinson's disease and normal aging. <i>Neuropharmacology</i> , 2020, 175, 108173.	2.0	39
859	Bacterial Peptidoglycans from Microbiota in Neurodevelopment and Behavior. <i>Trends in Molecular Medicine</i> , 2020, 26, 729-743.	3.5	43



#	ARTICLE	IF	CITATIONS
860	Reduction in BDNF from Inefficient Precursor Conversion Influences Nest Building and Promotes Depressive-Like Behavior in Mice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3984.	1.8	12
861	<i>Ganoderma lucidum</i> aqueous extract prevents hypobaric hypoxia induced memory deficit by modulating neurotransmission, neuroplasticity and maintaining redox homeostasis. <i>Scientific Reports</i> , 2020, 10, 8944.	1.6	15
862	BDNF signaling during the lifetime of dendritic spines. <i>Cell and Tissue Research</i> , 2020, 382, 185-199.	1.5	72
863	Neonatal handling increases neurogenesis, BDNF and GR in the hippocampus favoring memory acquisition in rats. <i>Brain Research</i> , 2020, 1745, 146921.	1.1	4
864	Systems Pharmacology-Dissection of the Molecular Mechanisms of Dragon's Blood in Improving Ischemic Stroke Prognosis. <i>Evidence-based Complementary and Alternative Medicine</i> , 2020, 2020, 1-14.	0.5	1
865	Proteomic Profile of Mouse Brain Aging Contributions to Mitochondrial Dysfunction, DNA Oxidative Damage, Loss of Neurotrophic Factor, and Synaptic and Ribosomal Proteins. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-21.	1.9	14
866	Postsynaptic effects of <i>Aplysia</i> cysteine-rich neurotrophic factor in the induction of activity-dependent long-term facilitation in <i>Aplysia californica</i> . <i>Learning and Memory</i> , 2020, 27, 124-129.	0.5	3
867	Effects of Sevoflurane Exposure During Late Pregnancy on Brain Development and Beneficial Effects of Enriched Environment on Offspring Cognition. <i>Cellular and Molecular Neurobiology</i> , 2020, 40, 1339-1352.	1.7	8
868	Gait Deficits and Loss of Striatal Tyrosine Hydroxylase/Trk-B are Restored Following 7,8-Dihydroxyflavone Treatment in a Progressive MPTP Mouse Model of Parkinson's Disease. <i>Neuroscience</i> , 2020, 433, 53-71.	1.1	18
869	Activation and Inactivation of Nicotinic Receptors in the Dorsal Hippocampal Region Restored Negative Effects of Total (TSD) and REM Sleep Deprivation (RSD) on Memory Acquisition, Locomotor Activity and Pain Perception. <i>Neuroscience</i> , 2020, 433, 200-211.	1.1	24
870	Dissociation of BDNF Val66Met polymorphism on neurocognitive functioning in military veterans with and without a history of remote mild traumatic brain injury. <i>Clinical Neuropsychologist</i> , 2020, 34, 1226-1247.	1.5	9
871	Encoding, Consolidation, and Renormalization in Depression: Synaptic Homeostasis, Plasticity, and Sleep Integrate Rapid Antidepressant Effects. <i>Pharmacological Reviews</i> , 2020, 72, 439-465.	7.1	28
872	Activation of brain-derived neurotrophic factor signaling in the basal forebrain reverses acute sleep deprivation-induced fear memory impairments. <i>Brain and Behavior</i> , 2020, 10, e01592.	1.0	16
873	Depolarizing GABA Transmission Restrains Activity-Dependent Glutamatergic Synapse Formation in the Developing Hippocampal Circuit. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 36.	1.8	20
874	Dehydration Impairs Physical Growth and Cognitive Development in Young Mice. <i>Nutrients</i> , 2020, 12, 670.	1.7	7
875	Long non-coding RNA MALAT1 promotes the proliferation and migration of Schwann cells by elevating BDNF through sponging miR-129-5p. <i>Experimental Cell Research</i> , 2020, 390, 111937.	1.2	18
876	The role of eEF2 kinase in the rapid antidepressant actions of ketamine. <i>Advances in Pharmacology</i> , 2020, 89, 79-99.	1.2	35
877	LncRNA LINC00641 Sponges miR-497-5p to Ameliorate Neural Injury Induced by Anesthesia via Up-Regulating BDNF. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 95.	1.4	8

#	ARTICLE	IF	CITATIONS
878	Neurobiology of Recovery of Motor Function after Stroke: The Central Nervous System Biomarker Effects of Constraint-Induced Movement Therapy. <i>Neural Plasticity</i> , 2020, 2020, 1-12.	1.0	21
879	Anti-apoptotic effects of BDNF-TrkB signaling in the treatment of hemorrhagic stroke. <i>Brain Hemorrhages</i> , 2020, 1, 124-132.	0.4	10
880	Lack of antidepressant effects of burst-suppressing isoflurane anesthesia in adult male Wistar outbred rats subjected to chronic mild stress. <i>PLoS ONE</i> , 2020, 15, e0235046.	1.1	6
881	Rational Design of a Protein Kinase A Nuclear-cytosol Translocation Reporter. <i>Scientific Reports</i> , 2020, 10, 9365.	1.6	6
882	Quest for pharmacological regulators of KCC2. , 2020, , 709-727.		2
883	KCC2 is a hub protein that balances excitation and inhibition. , 2020, , 159-179.		2
884	Regulation of Thyroid-disrupting Chemicals to Protect the Developing Brain. <i>Endocrinology</i> , 2020, 161, .	1.4	38
885	Preventive and Therapeutic Effects of Astaxanthin on Depressive-Like Behaviors in High-Fat Diet and Streptozotocin-Treated Rats. <i>Frontiers in Pharmacology</i> , 2019, 10, 1621.	1.6	23
886	<i>BDNF</i> Met allele Is Associated With Lower Cognitive Function in Poststroke Rehabilitation. <i>Neurorehabilitation and Neural Repair</i> , 2020, 34, 247-259.	1.4	8
887	Neurons, Glia, Extracellular Matrix and Neurovascular Unit: A Systems Biology Approach to the Complexity of Synaptic Plasticity in Health and Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1539.	1.8	64
888	BDNF Expression in Cortical GABAergic Interneurons. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1567.	1.8	21
889	Irradiation increases brain-derived neurotrophic factor precursor signaling in the mouse hippocampus. <i>Neurobiology of Learning and Memory</i> , 2020, 171, 107186.	1.0	11
890	The Effect of <i>Lactobacillus casei</i> Consumption in Improvement of Obsessive-Compulsive Disorder: an Animal Study. <i>Probiotics and Antimicrobial Proteins</i> , 2020, 12, 1409-1419.	1.9	12
891	The Role of Histone Acetylation in the Sevoflurane-induced Inhibition of Neurogenesis in the Hippocampi of Young Mice. <i>Neuroscience</i> , 2020, 432, 73-83.	1.1	11
892	A CRHR1 antagonist prevents synaptic loss and memory deficits in a trauma-induced delirium-like syndrome. <i>Molecular Psychiatry</i> , 2021, 26, 3778-3794.	4.1	19
893	The genetics of drug-related movement disorders, an umbrella review of meta-analyses. <i>Molecular Psychiatry</i> , 2020, 25, 2237-2250.	4.1	8
894	BDNF promotes activation of astrocytes and microglia contributing to neuroinflammation and mechanical allodynia in cyclophosphamide-induced cystitis. <i>Journal of Neuroinflammation</i> , 2020, 17, 19.	3.1	85
895	Metabolite Profiling Revealed That a Gardening Activity Program Improves Cognitive Ability Correlated with BDNF Levels and Serotonin Metabolism in the Elderly. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 541.	1.2	37

#	ARTICLE	IF	CITATIONS
896	Chronic oral treatment with risperidone impairs recognition memory and alters brain-derived neurotrophic factor and related signaling molecules in rats. <i>Pharmacology Biochemistry and Behavior</i> , 2020, 189, 172853.	1.3	9
897	Acute Stress Induces Cognitive Improvement in the Novel Object Recognition Task by Transiently Modulating Bdnf in the Prefrontal Cortex of Male Rats. <i>Cellular and Molecular Neurobiology</i> , 2020, 40, 1037-1047.	1.7	29
898	Extracellular Vesicles Derived from Human Gingival Mesenchymal Stem Cells: A Transcriptomic Analysis. <i>Genes</i> , 2020, 11, 118.	1.0	49
899	Growth Factors and Alcohol Use Disorder. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2020, 10, a039271.	2.9	28
900	The Role of BDNF on Neural Plasticity in Depression. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 82.	1.8	189
901	TrkB-expressing paraventricular hypothalamic neurons suppress appetite through multiple neurocircuits. <i>Nature Communications</i> , 2020, 11, 1729.	5.8	41
902	Specificity of synapse formation in Aplysia: paracrine and autocrine signaling regulates bidirectional molecular interactions between sensory and non-target motor neurons. <i>Scientific Reports</i> , 2020, 10, 5222.	1.6	1
903	Icariside II, a PDE5 Inhibitor, Suppresses Oxygen-Glucose Deprivation/Reperfusion-Induced Primary Hippocampal Neuronal Death Through Activating the PKG/CREB/BDNF/TrkB Signaling Pathway. <i>Frontiers in Pharmacology</i> , 2020, 11, 523.	1.6	19
904	Lactate and BDNF: Key Mediators of Exercise Induced Neuroplasticity?. <i>Journal of Clinical Medicine</i> , 2020, 9, 1136.	1.0	84
905	Compact, Clickable Quantum Dots Photoligated with Multifunctional Zwitterionic Polymers for Immunofluorescence and <i>In Vivo</i> Imaging. <i>Bioconjugate Chemistry</i> , 2020, 31, 1497-1509.	1.8	19
906	NMDARs in Cell Survival and Death: Implications in Stroke Pathogenesis and Treatment. <i>Trends in Molecular Medicine</i> , 2020, 26, 533-551.	3.5	61
907	miR-138 Increases Depressive-Like Behaviors by Targeting SIRT1 in Hippocampus; Neuropsychiatric Disease and Treatment, 2020, Volume 16, 949-957.	1.0	18
908	The role of mTOR signalling pathway in hypoxia-induced cognitive impairment. <i>International Journal of Neuroscience</i> , 2021, 131, 482-488.	0.8	7
909	Differential correlation of serum BDNF and microRNA content in rats with rapid or late onset of heavy alcohol use. <i>Addiction Biology</i> , 2021, 26, e12890.	1.4	17
910	Refinement of Cerebellar Network Organization by Extracellular Signaling During Development. <i>Neuroscience</i> , 2021, 462, 44-55.	1.1	8
911	The effects of spinosad on antioxidant system and cognitive performance of mice. <i>Archives of Physiology and Biochemistry</i> , 2021, 127, 148-152.	1.0	1
912	New Insights Into the Comorbidity of Coronary Heart Disease and Depression. <i>Current Problems in Cardiology</i> , 2021, 46, 100413.	1.1	32
913	Ketamine: A tale of two enantiomers. <i>Journal of Psychopharmacology</i> , 2021, 35, 109-123.	2.0	101

#	ARTICLE	IF	CITATIONS
914	Human EEG and the mechanisms of memory: investigating long-term potentiation (LTP) in sensory-evoked potentials. <i>Journal of the Royal Society of New Zealand</i> , 2021, 51, 24-40.	1.0	12
915	Postsynaptic Targeting and Mobility of Membrane Surface-Localized hASIC1a. <i>Neuroscience Bulletin</i> , 2021, 37, 145-165.	1.5	10
916	Memory impairment of chewing-side preference mice is associated with 5-HT-BDNF signal pathway. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 303-310.	1.4	4
917	Effects of childhood trauma experience and BDNF Val66Met polymorphism on brain plasticity relate to emotion regulation. <i>Behavioural Brain Research</i> , 2021, 398, 112949.	1.2	12
918	Contribution of DNA methyltransferases to spared nerve injury induced depression partially through epigenetically repressing Bdnf in hippocampus: Reversal by ketamine. <i>Pharmacology Biochemistry and Behavior</i> , 2021, 200, 173079.	1.3	10
919	Quercetin exerts antidepressant and cardioprotective effects in estrogen receptor $\alpha$ -deficient female mice via BDNF-AKT/ERK1/2 signaling. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021, 206, 105795.	1.2	32
920	Antidepressant-like effects of 1-methylnicotinamide in a chronic unpredictable mild stress model of depression. <i>Neuroscience Letters</i> , 2021, 742, 135535.	1.0	9
921	The significance of tyrosine kinase receptor B and brain-derived neurotrophic factor expression in salivary duct carcinoma. <i>Annals of Diagnostic Pathology</i> , 2021, 50, 151673.	0.6	2
922	Uncaria rhynchophylla ameliorates unpredictable chronic mild stress-induced depression in mice via activating 5-HT1A receptor: Insights from transcriptomics. <i>Phytomedicine</i> , 2021, 81, 153436.	2.3	18
923	The BDNF Val66Met polymorphism (rs6265) enhances dopamine neuron graft efficacy and side-effect liability in rs6265 knock-in rats. <i>Neurobiology of Disease</i> , 2021, 148, 105175.	2.1	13
924	Time is of the essence: Coupling sleep-wake and circadian neurobiology to the antidepressant effects of ketamine. , 2021, 221, 107741.		22
925	Brain-Derived Neurotrophic Factor/Tropomyosin Receptor Kinase B Signaling Controls Excitability and Long-Term Depression in Oval Nucleus of the BNST. <i>Journal of Neuroscience</i> , 2021, 41, 435-445.	1.7	8
926	17 $\beta$ -estradiol activation of dorsal hippocampal TrkB is independent of increased mature BDNF expression and is required for enhanced memory consolidation in female mice. <i>Psychoneuroendocrinology</i> , 2021, 125, 105110.	1.3	13
927	Antidepressant drugs act by directly binding to TRKB neurotrophin receptors. <i>Cell</i> , 2021, 184, 1299-1313.e19.	13.5	347
928	Neurotrophic, anti-neuroinflammatory, and redox balance mechanisms of chalcones. <i>European Journal of Pharmacology</i> , 2021, 891, 173695.	1.7	18
929	New insights on brain-derived neurotrophic factor epigenetics: from depression to memory extinction. <i>Annals of the New York Academy of Sciences</i> , 2021, 1484, 9-31.	1.8	24
930	Nonhuman Primate Models to Explore Mechanisms Underlying Early-Life Temperamental Anxiety. <i>Biological Psychiatry</i> , 2021, 89, 659-671.	0.7	23
931	Brain-Derived Neurotrophic Factor and Stem Cell-Based Technologies in Huntington's Disease Therapy. , 0, , .		4

#	ARTICLE	IF	CITATIONS
932	Receptors   Neurotrophin Receptor Signaling. , 2021, , 187-200.		1
933	OUP accepted manuscript. Cerebral Cortex, 2021, , .	1.6	3
934	Brain-derived neurotrophic factor Val66Met variant on brain volumes in infants. Brain Structure and Function, 2021, 226, 919-925.	1.2	3
935	Poly (C)-Binding Protein 1: A Novel Function Attributed to the Nervous System Microenvironment. World Journal of Neuroscience, 2021, 11, 48-66.	0.1	0
936	Comparative Genomics of the BDNF Gene, Non-Canonical Modes of Transcriptional Regulation, and Neurological Disease. Molecular Neurobiology, 2021, 58, 2851-2861.	1.9	14
937	Stress Responsiveness of BDNF/TrkB Signaling in the Neuroendocrine System and Future Implications. , 2021, , 145-158.		2
938	( $\hat{\alpha}$ )-Gallocatechin gallate from green tea rescues cognitive impairment through restoring hippocampal silent synapses in post-menopausal depression. Scientific Reports, 2021, 11, 910.	1.6	8
940	Distinct Effects of BDNF and NT-3 on the Dendrites and Presynaptic Boutons of Developing Olfactory Bulb GABAergic Interneurons In Vitro. Cellular and Molecular Neurobiology, 2022, 42, 1399-1417.	1.7	3
941	Neuronal Src homology 2 B adaptor protein 1 and brain growth. , 2021, , 157-166.		0
942	Monogenic human obesity syndromes. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2021, 181, 301-310.	1.0	18
943	Depression and associated Alzheimer's disease. , 2021, , 79-87.		0
944	The effects of endurance exercise combined with high-temperature head-out water immersion on serum concentration of brain-derived neurotrophic factor in healthy young men. International Journal of Hyperthermia, 2021, 38, 1077-1085.	1.1	3
946	Blood Brain-Derived Neurotrophic Factor (BDNF) and Major Depression: Do We Have a Translational Perspective?. Frontiers in Behavioral Neuroscience, 2021, 15, 626906.	1.0	60
947	Combined kinesin-1 and kinesin-3 activity drives axonal trafficking of TrkB receptors in Rab6 carriers. Developmental Cell, 2021, 56, 494-508.e7.	3.1	16
948	Novelty-induced behavior and memory enhancing activities of aqueous and ethanol extracts of Solanum incanum Linn. fruits in mice. African Journal of Pharmacy and Pharmacology, 2021, 15, 33-42.	0.2	0
949	Preservation of spatial memory and neuroprotection by the fatty acid amide hydrolase inhibitor URB597 in a rat model of vascular dementia. Annals of Translational Medicine, 2021, 9, 228-228.	0.7	11
950	Adult trkB Signaling in Parvalbumin Interneurons is Essential to Prefrontal Network Dynamics. Journal of Neuroscience, 2021, 41, 3120-3141.	1.7	16
951	Skeletal Muscle Metabolomic Responses to Endurance and Resistance Training in Rats under Chronic Unpredictable Mild Stress. International Journal of Environmental Research and Public Health, 2021, 18, 1645.	1.2	1

#	ARTICLE	IF	CITATIONS
952	Concepts of Neuroinflammation and Their Relationship With Impaired Mitochondrial Functions in Bipolar Disorder. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 609487.	1.0	16
953	Intronic enhancer region governs transcript-specific Bdnf expression in rodent neurons. <i>ELife</i> , 2021, 10, .	2.8	22
954	Ketamineâ€™s 50 Years in use: from anesthesia to rapid antidepressant effects and neurobiological mechanisms. <i>Pharmacological Reports</i> , 2021, 73, 323-345.	1.5	47
955	Neuronal activity regulated pentraxin (narp) and GluA4 subunit of AMPA receptor may be targets for fluoxetine modulation. <i>Metabolic Brain Disease</i> , 2021, 36, 711-722.	1.4	6
957	Conditional knockout of MET receptor tyrosine kinase in cortical excitatory neurons leads to enhanced learning and memory in young adult mice but early cognitive decline in older adult mice. <i>Neurobiology of Learning and Memory</i> , 2021, 179, 107397.	1.0	8
958	Antidepressant-like effect of ginsenoside Rb1 on potentiating synaptic plasticity via the miR-134â€™ mediated BDNF signaling pathway in a mouse model of chronic stress-induced depression. <i>Journal of Ginseng Research</i> , 2022, 46, 376-386.	3.0	18
959	Loss of Brain-Derived Neurotrophic Factor (BDNF) Resulting From Congenital- Or Mild Traumatic Brain Injury-Induced Bloodâ€™ Brain Barrier Disruption Correlates With Depressive-Like Behaviour. <i>Neuroscience</i> , 2021, 458, 1-10.	1.1	9
960	Effects of acupuncture versus cognitive behavioral therapy on brain-derived neurotrophic factor in cancer survivors with insomnia: an exploratory analysis. <i>Acupuncture in Medicine</i> , 2021, 39, 637-645.	0.4	6
961	Roles of Cannabidiol in the Treatment and Prevention of Alzheimerâ€™s Disease by Multi-target Actions. <i>Mini-Reviews in Medicinal Chemistry</i> , 2022, 22, 43-51.	1.1	5
962	Reinforcement of Self-Regulated Brain Activity in Schizophrenia Patients Undergoing Rehabilitation. <i>BioMed Research International</i> , 2021, 2021, 1-9.	0.9	5
963	Non-Syndromic Intellectual Disability and Its Pathways: A Long Noncoding RNA Perspective. <i>Non-coding RNA</i> , 2021, 7, 22.	1.3	2
964	Computerized Cognitive Training: A Review of Mechanisms, Methodological Considerations, and Application to Research in Depression. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2021, 5, 359-371.	0.8	8
965	ProBDNF induces sustained elevation of intracellular Ca <sup>2+</sup> possibly mediated by TRPM7 channels in rodent microglial cells. <i>Glia</i> , 2021, 69, 1694-1708.	2.5	7
966	Plasma Brain-Derived Neurotrophic Factor Levels Are Associated with Aging and Smoking But Not with Future Dementia in the Rotterdam Study. <i>Journal of Alzheimer's Disease</i> , 2021, 80, 1139-1149.	1.2	8
967	P2X4 receptor in the dorsal horn contributes to BDNF/TrkB and AMPA receptor activation in the pathogenesis of remifentanyl-induced postoperative hyperalgesia in rats. <i>Neuroscience Letters</i> , 2021, 750, 135773.	1.0	1
969	Genetic Depletion of BDNF Impairs Extinction Learning of a Spatial Appetitive Task in the Presence or Absence of the Acquisition Context. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 658686.	1.0	2
970	Hyperbaric oxygen therapy mobilized circulating stem cells and improved delayed encephalopathy after acute carbon monoxide poisoning with up-regulation of brain-derived neurotrophic factor. <i>American Journal of Emergency Medicine</i> , 2021, 42, 95-100.	0.7	8
971	Melatonin protects inner retinal neurons of newborn mice after hypoxiaâ€™ischemia. <i>Journal of Pineal Research</i> , 2021, 71, e12716.	3.4	32

#	ARTICLE	IF	CITATIONS
972	Intermediation of perceived stress between early trauma and plasma M/P ratio levels in obsessive-compulsive disorder patients. <i>Journal of Affective Disorders</i> , 2021, 285, 105-111.	2.0	4
973	Vortioxetine ameliorates anhedonic-like behaviour and promotes strategic cognitive performance in a rodent touchscreen task. <i>Scientific Reports</i> , 2021, 11, 9113.	1.6	6
974	Naringenin improves depressive- and anxiety-like behaviors in mice exposed to repeated hypoxic stress through modulation of oxido-inflammatory mediators and NF- $\kappa$ B/BDNF expressions. <i>Brain Research Bulletin</i> , 2021, 169, 214-227.	1.4	43
975	Understanding Why Post-Stroke Depression May Be the Norm Rather Than the Exception: The Anatomical and Neuroinflammatory Correlates of Post-Stroke Depression. <i>Journal of Clinical Medicine</i> , 2021, 10, 1674.	1.0	36
976	BDNF haploinsufficiency induces behavioral endophenotypes of schizophrenia in male mice that are rescued by enriched environment. <i>Translational Psychiatry</i> , 2021, 11, 233.	2.4	10
978	Effect of the glycine-rich domain in GAREM2 on its unique subcellular localization upon EGF stimulation. <i>Cellular and Molecular Biology Letters</i> , 2021, 26, 16.	2.7	2
979	Long-term effects of early treatment with SSRIs on cognition and brain development in individuals with 22q11.2 deletion syndrome. <i>Translational Psychiatry</i> , 2021, 11, 336.	2.4	7
980	Metal ion coordination in peptide fragments of neurotrophins: A crucial step for understanding the role and signaling of these proteins in the brain. <i>Coordination Chemistry Reviews</i> , 2021, 435, 213790.	9.5	11
981	Cholesterol recognition motifs in the transmembrane domain of the tyrosine kinase receptor family: The case of TRKB. <i>European Journal of Neuroscience</i> , 2021, 53, 3311-3322.	1.2	15
982	Physical Exercise-Induced Myokines in Neurodegenerative Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5795.	1.8	23
983	Hijacking Dorsal Raphe to Improve Metabolism and Depression-Like Behaviors via BDNF Gene Transfer in Mice. <i>Diabetes</i> , 2021, 70, 1780-1793.	0.3	8
984	BDNF Overexpression in the Ventral Hippocampus Promotes Antidepressant- and Anxiolytic-Like Activity in Serotonin Transporter Knockout Rats. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5040.	1.8	11
985	Deep learning-based predictive identification of neural stem cell differentiation. <i>Nature Communications</i> , 2021, 12, 2614.	5.8	104
986	MicroRNA-dependent control of neuroplasticity in affective disorders. <i>Translational Psychiatry</i> , 2021, 11, 263.	2.4	33
987	New Horizon: Exercise and a Focus on Tissue-Brain Crosstalk. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 2147-2163.	1.8	15
988	Current Methodological Pitfalls and Caveats in the Assessment of Exercise-Induced Changes in Peripheral Brain-Derived Neurotrophic Factor: How Result Reproducibility Can Be Improved. <i>Frontiers in Neuroergonomics</i> , 2021, 2, .	0.6	0
989	Sex-Based Differences in Cardiac Gene Expression and Function in BDNF Val66Met Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7002.	1.8	1
990	Promoting neuroplasticity and neuropsychological functioning in frailty through an app-based sensorimotor training: study protocol for a randomized trial. <i>BMC Geriatrics</i> , 2021, 21, 343.	1.1	3

#	ARTICLE	IF	CITATIONS
991	Specific inhibition of $\alpha 5$ subunit-containing GABA <sub>A</sub> receptors enhances locomotor activity and neuronal activity in the motor cortex. <i>Biomedical Research</i> , 2021, 42, 103-108.	0.3	1
992	Forgot to Exercise? Exercise Derived Circulating Myokines in Alzheimer's Disease: A Perspective. <i>Frontiers in Neurology</i> , 2021, 12, 649452.	1.1	14
993	Recent advances in the pathology of prodromal non-motor symptoms olfactory deficit and depression in Parkinson's disease: clues to early diagnosis and effective treatment. <i>Archives of Pharmacal Research</i> , 2021, 44, 588-604.	2.7	28
995	Alzheimer's Disease, Neural Plasticity, and Functional Recovery. <i>Journal of Alzheimer's Disease</i> , 2021, 82, S37-S50.	1.2	24
996	The effect of zinc supplementation on brain derived neurotrophic factor: A meta-analysis. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 66, 126753.	1.5	9
997	Highly Permeable DNA Supramolecular Hydrogel Promotes Neurogenesis and Functional Recovery after Completely Transected Spinal Cord Injury. <i>Advanced Materials</i> , 2021, 33, e2102428.	11.1	85
998	Huntingtin and Its Role in Mechanisms of RNA-Mediated Toxicity. <i>Toxins</i> , 2021, 13, 487.	1.5	12
999	Impact of brain-derived neurotrophic factor Val66Met polymorphism and response to escitalopram or paroxetine in obsessive-compulsive disorder. <i>CNS Spectrums</i> , 2021, , 1-7.	0.7	0
1000	The Toll Route to Structural Brain Plasticity. <i>Frontiers in Physiology</i> , 2021, 12, 679766.	1.3	4
1001	Do Small Molecules Activate the TrkB Receptor in the Same Manner as BDNF? Limitations of Published TrkB Low Molecular Agonists and Screening for Novel TrkB Orthosteric Agonists. <i>Pharmaceuticals</i> , 2021, 14, 704.	1.7	19
1002	Brain-Derived Neurotrophic Factor Signaling in Depression and Antidepressant Action. <i>Biological Psychiatry</i> , 2021, 90, 128-136.	0.7	186
1003	From Exercise to Cognitive Performance: Role of Irisin. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7120.	1.3	8
1004	Stress-primed secretory autophagy promotes extracellular BDNF maturation by enhancing MMP9 secretion. <i>Nature Communications</i> , 2021, 12, 4643.	5.8	50
1005	A role for BDNF- and NMDAR-induced lysosomal recruitment of mTORC1 in the regulation of neuronal mTORC1 activity. <i>Molecular Brain</i> , 2021, 14, 112.	1.3	4
1006	Effect of low-intensity pulsed ultrasound on orofacial sensory disturbance following inferior alveolar nerve injury: Role of neurotrophin signaling. <i>European Journal of Oral Sciences</i> , 2021, 129, e12810.	0.7	3
1007	Can Tai Chi Improve Cognitive Function? A Systematic Review and Meta-Analysis of Randomized Controlled Trials. <i>Journal of Alternative and Complementary Medicine</i> , 2021, 27, 1070-1083.	2.1	21
1008	The Effect of Blockade of Androgen Receptors by Flutamide on Learning and Memory, Synaptic Plasticity and Behavioral Performances: A Review Study. <i>Cell and Tissue Biology</i> , 2021, 15, 337-346.	0.2	6
1009	Metabolic homeostasis via BDNF and its receptors. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 488-499.	3.1	34



#	ARTICLE	IF	CITATIONS
1010	CircRtn4 Acts as the Sponge of miR-24-3p to Promote Neurite Growth by Regulating CHD5. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 660429.	1.4	3
1011	Stress-Related Dysfunction of Adult Hippocampal Neurogenesis—An Attempt for Understanding Resilience?. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7339.	1.8	23
1012	Intermittent Hypoxia Training Prevents Deficient Learning-Memory Behavior in Mice Modeling Alzheimer's Disease: A Pilot Study. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 674688.	1.7	14
1013	Association Analysis of Polymorphic Variants of the BDNF Gene in Athletes. <i>Genes</i> , 2021, 12, 1340.	1.0	2
1014	Decoding pathogenesis factors involved in the progression of ATLL or HAM/TSP after infection by HTLV-1 through a systems virology study. <i>Virology Journal</i> , 2021, 18, 175.	1.4	11
1015	A developmental stage- and Kidins220-dependent switch in astrocyte responsiveness to brain-derived neurotrophic factor. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	10
1017	Effect of BDNF on airway inflammation in a rat model of COPD. <i>Experimental and Therapeutic Medicine</i> , 2021, 22, 1116.	0.8	1
1018	Temporal dissection of Rai1 function reveals brain-derived neurotrophic factor as a potential therapeutic target for Smith's Magenis syndrome. <i>Human Molecular Genetics</i> , 2021, 31, 275-288.	1.4	11
1019	A subthreshold synaptic mechanism regulating BDNF expression and resting synaptic strength. <i>Cell Reports</i> , 2021, 36, 109467.	2.9	17
1020	Single-cell multimodal analysis in a case with reduced penetrance of Progranulin-Frontotemporal Dementia. <i>Acta Neuropathologica Communications</i> , 2021, 9, 132.	2.4	3
1021	A synaptic locus for TrkB signaling underlying ketamine rapid antidepressant action. <i>Cell Reports</i> , 2021, 36, 109513.	2.9	39
1022	Building Resilience with Aerobic Exercise: Role of FKBP5. <i>Current Neuropharmacology</i> , 2021, 19, 1156-1160.	1.4	5
1023	Improving Clinical, Cognitive, and Psychosocial Dysfunctions in Patients with Schizophrenia: A Neurofeedback Randomized Control Trial. <i>Neural Plasticity</i> , 2021, 2021, 1-10.	1.0	8
1024	Abnormal expression profile of plasma-derived exosomal microRNAs in patients with treatment-resistant depression. <i>Human Genomics</i> , 2021, 15, 55.	1.4	22
1025	Flexible Transmitter Network. <i>Neural Computation</i> , 2021, 33, 1-20.	1.3	6
1026	Disrupted Timing of MET Signaling Derails the Developmental Maturation of Cortical Circuits and Leads to Altered Behavior in Mice. <i>Cerebral Cortex</i> , 2022, 32, 1769-1786.	1.6	5
1027	Endogenous Deficiency of Brain-Derived Neurotrophic Factor Induces the Downregulation of Tryptophan Hydroxylase-2 Expression in Raphe Nuclei of Rapid Ejaculator Rats. <i>Journal of Sexual Medicine</i> , 2021, 18, 1491-1499.	0.3	3
1028	Neuroprotective Effect of Ultrasound Neuromodulation on Kainic Acid- Induced Epilepsy in Mice. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 3006-3016.	1.7	10

#	ARTICLE	IF	CITATIONS
1029	Calcium-Permeable AMPA Receptors Mediate Timing-Dependent LTP Elicited by Low Repeat Coincident Pre- and Postsynaptic Activity at Schaffer Collateral-CA1 Synapses. <i>Cerebral Cortex</i> , 2022, 32, 1682-1703.	1.6	9
1030	Recovery of post-stroke cognitive and motor deficiencies by Shuxuening injection via regulating hippocampal BDNF-mediated Neurotrophin/Trk Signaling. <i>Biomedicine and Pharmacotherapy</i> , 2021, 141, 111828.	2.5	21
1031	7,8-Dihydroxyflavone and Neuropsychiatric Disorders: A Translational Perspective from the Mechanism to Drug Development. <i>Current Neuropharmacology</i> , 2022, 20, 1479-1497.	1.4	8
1032	Microbiome-Gut-Brain Interactions in Neurodevelopmental Disorders: Focus on Autism and Schizophrenia. , 2021, , 258-291.		0
1033	ProBDNF Dependence of LTD and Fear Extinction Learning in the Amygdala of Adult Mice. <i>Cerebral Cortex</i> , 2022, 32, 1350-1364.	1.6	7
1034	Ipsilateral BDNF mRNA expression in the motor cortex positively correlates with motor function of the affected forelimb after intracerebral hemorrhage. <i>Brain Research</i> , 2021, 1767, 147536.	1.1	7
1035	Effects of Low-Intensity Transcranial Pulsed Ultrasound Treatment in a Model of Alzheimer's Disease. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 2646-2656.	0.7	8
1036	Combination of Stem Cells and Rehabilitation Therapies for Ischemic Stroke. <i>Biomolecules</i> , 2021, 11, 1316.	1.8	16
1037	Beneficial Effects of Choline Alphoscerate on Amyloid- $\beta$ Neurotoxicity in an In vitro Model of Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2021, 18, 298-309.	0.7	2
1038	Screen time is independently associated with serum brain-derived neurotrophic factor (BDNF) in youth with obesity. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 1083-1090.	0.9	7
1039	Isoform-Specific Reduction of the Basic Helix-Loop-Helix Transcription Factor TCF4 Levels in Huntington's Disease. <i>ENeuro</i> , 2021, 8, ENEURO.0197-21.2021.	0.9	2
1040	Neuroigin-1 mediates presynaptic maturation through brain-derived neurotrophic factor signaling. <i>BMC Biology</i> , 2021, 19, 215.	1.7	4
1041	Panax notoginseng saponin attenuates the hypoxic-ischaemic injury in neonatal rats by regulating the expression of neurotrophin factors. <i>European Journal of Neuroscience</i> , 2021, 54, 6304-6321.	1.2	1
1042	Serum BDNF and cognitive dysfunction in SLE: findings from a cohort of 111 patients. <i>Clinical Rheumatology</i> , 2022, 41, 421-428.	1.0	7
1043	Gelatin methacrylate hydrogel loaded with brain-derived neurotrophic factor enhances small molecule-induced neurogenic differentiation of stem cells from apical papilla. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 623-634.	2.1	3
1044	BDNF genotype Val66Met interacts with acute plasma BDNF levels to predict fear extinction and recall. <i>Behaviour Research and Therapy</i> , 2021, 145, 103942.	1.6	4
1045	The crosstalk between brain and periphery: Implications for brain health and disease. <i>Neuropharmacology</i> , 2021, 197, 108728.	2.0	17
1046	Low BDNF levels in serum are associated with cognitive impairments in medication-naïve patients with current depressive episode in BD II and MDD. <i>Journal of Affective Disorders</i> , 2021, 293, 90-96.	2.0	13

#	ARTICLE	IF	CITATIONS
1047	Influence of BDNF Val66Met polymorphism on excitatory-inhibitory balance and plasticity in human motor cortex. <i>Clinical Neurophysiology</i> , 2021, 132, 2827-2839.	0.7	7
1048	Prediction of residual cognitive disturbances by early response of depressive symptoms to antidepressant treatments in patients with major depressive disorder. <i>Journal of Affective Disorders</i> , 2022, 296, 95-102.	2.0	5
1049	Towards a comprehensive understanding of p75 neurotrophin receptor functions and interactions in the brain. <i>Neural Regeneration Research</i> , 2022, 17, 701.	1.6	8
1050	Fingolimod in children with Rett syndrome: the FINGORETT study. <i>Orphanet Journal of Rare Diseases</i> , 2021, 16, 19.	1.2	12
1051	The GSK-3 $\beta$ / $\beta$ -Catenin Signaling-Mediated Brain-Derived Neurotrophic Factor Pathway Is Involved in Aluminum-Induced Impairment of Hippocampal LTP In Vivo. <i>Biological Trace Element Research</i> , 2021, 199, 4635-4645.	1.9	8
1052	Alleviation of Anxiety/Depressive-Like Behaviors and Improvement of Cognitive Functions by <i>Lactobacillus plantarum</i> WLPL04 in Chronically Stressed Mice. <i>Canadian Journal of Infectious Diseases and Medical Microbiology</i> , 2021, 2021, 1-11.	0.7	16
1053	The placenta protects the fetal circulation from anxiety-driven elevations in maternal serum levels of brain-derived neurotrophic factor. <i>Translational Psychiatry</i> , 2021, 11, 62.	2.4	8
1054	Saikosaponin $\beta$ impedes hippocampal neurogenesis and causes cognitive deficits by inhibiting the survival of neural stem/progenitor cells via neurotrophin receptor signaling in mice. <i>Clinical and Translational Medicine</i> , 2020, 10, e243.	1.7	13
1055	Depressive Disorders: Prevalence, Costs, and Theories. , 2016, , 1-41.		3
1056	Neurotrophic Factors in Mouse Models of Autism Spectrum Disorder: Focus on BDNF and IGF-1. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2017, 224, 121-134.	1.0	21
1057	The Role of FNDC5/Irisin in the Nervous System and as a Mediator for Beneficial Effects of Exercise on the Brain. <i>Research and Perspectives in Endocrine Interactions</i> , 2017, , 93-102.	0.2	14
1058	Effects of 7,8-Dihydroxyflavone on Lipid Isoprenoid and Rho Protein Levels in Brains of Aged C57BL/6 Mice. <i>NeuroMolecular Medicine</i> , 2021, 23, 130-139.	1.8	2
1059	BDNF-induced LTP is associated with rapid Arc/Arg3.1-dependent enhancement in adult hippocampal neurogenesis. <i>Scientific Reports</i> , 2016, 6, 21222.	1.6	74
1060	The Relation Between Long-Term Synaptic Plasticity at Glutamatergic Synapses in the Amygdala and Fear Learning in Adult Heterozygous BDNF-Knockout Mice. <i>Cerebral Cortex</i> , 2018, 28, 1195-1208.	1.6	18
1065	Can brain-derived neurotrophic factor (BDNF) be an indicator of effective rehabilitation interventions in schizophrenia?. <i>Psychiatria Polska</i> , 2018, 52, 819-834.	0.2	18
1066	Age-dependent differences of treadmill exercise on spatial learning ability between young- and adult-age rats. <i>Journal of Exercise Rehabilitation</i> , 2017, 13, 381-386.	0.4	19
1067	Exogenous t-PA Administration Increases Hippocampal Mature BDNF Levels. Plasmin- or NMDA-Dependent Mechanism?. <i>PLoS ONE</i> , 2014, 9, e92416.	1.1	35
1068	Neuronal Activity Induces Synaptic Delivery of hnRNP A2/B1 by a BDNF-Dependent Mechanism in Cultured Hippocampal Neurons. <i>PLoS ONE</i> , 2014, 9, e108175.	1.1	22

#	ARTICLE	IF	CITATIONS
1069	Brain-Derived Neurotrophic Factor and Antidepressive Effect of Electroconvulsive Therapy: Systematic Review and Meta-Analyses of the Preclinical and Clinical Literature. PLoS ONE, 2015, 10, e0141564.	1.1	87
1070	Aberrant Levels of Hematopoietic/Neuronal Growth and Differentiation Factors in Euthyroid Women at Risk for Autoimmune Thyroid Disease. PLoS ONE, 2016, 11, e0153892.	1.1	9
1071	Efficiency of long-term vinpocetine administration in the treatment of dizziness and associated statodynamic disorders in patients with chronic cerebrovascular insufficiency (EDELWEISS study). Neurologiya, Neiropsikhiatriya, Psikhosomatika, 2019, 11, 36-47.	0.2	5
1072	Neuronal survival of DRG neurons after neurite transection in vitro promotes by nerve growth factor and brain derived neurotrophic factor. Cellular and Molecular Biology, 2019, 64, 41-46.	0.3	5
1073	The Acquisition of Target Dependence by Developing Rat Retinal Ganglion Cells. ENeuro, 2015, 2, ENEURO.0044-14.2015.	0.9	9
1074	Synaptic Wiring of Corticostriatal Circuits in Basal Ganglia: Insights into the Pathogenesis of Neuropsychiatric Disorders. ENeuro, 2019, 6, ENEURO.0076-19.2019.	0.9	38
1075	A Single Intraventricular Injection of VEGF Leads to Long-Term Neurotrophic Effects in Axotomized Motoneurons. ENeuro, 2020, 7, ENEURO.0467-19.2020.	0.9	9
1076	CREB Family Transcription Factors Are Major Mediators of BDNF Transcriptional Autoregulation in Cortical Neurons. Journal of Neuroscience, 2020, 40, 1405-1426.	1.7	138
1078	Association of genes with phenotype in autism spectrum disorder. Aging, 2019, 11, 10742-10770.	1.4	23
1079	Depression induces poor prognosis associates with the down-regulation brain derived neurotrophic factor of serum in advanced small cell lung cancer. Oncotarget, 2016, 7, 85975-85986.	0.8	17
1080	Syntaxin-1/TI-VAMP SNAREs interact with Trk receptors and are required for neurotrophin-dependent outgrowth. Oncotarget, 2018, 9, 35922-35940.	0.8	7
1081	&lt;p&gt;Intranasal Delivery of Bone Marrow Stromal Cells Preconditioned with Fasudil to Treat a Mouse Model of Parkinsonâ€™s Disease&lt;/p&gt;. Neuropsychiatric Disease and Treatment, 2020, Volume 16, 249-262.	1.0	11
1082	Oxidative Imbalance and Anxiety Disorders. Current Neuropharmacology, 2014, 12, 193-204.	1.4	58
1083	Glaucoma Pathogenesis and Neurotrophins: Focus on the Molecular and Genetic Basis for Therapeutic Prospects. Current Neuropharmacology, 2018, 16, 1018-1035.	1.4	66
1084	Towards a â€œMetabolicâ€•Subtype of Major Depressive Disorder: Shared Pathophysiological Mechanisms May Contribute to Cognitive Dysfunction. CNS and Neurological Disorders - Drug Targets, 2015, 13, 1693-1707.	0.8	46
1085	Effects of genistein and swimming exercise on spatial memory and expression of microRNA 132, BDNF, and IGF-1 genes in the hippocampus of ovariectomized rats. Iranian Journal of Basic Medical Sciences, 2017, 20, 856-862.	1.0	11
1086	THERAPEUTIC MECHANISMS OF KETAMINE. Psychiatria Danubina, 2020, 32, 325-333.	0.2	25
1087	Differential Clinical Significance of Neurotrophin-3 Expression according to MYCN Amplification and TrkC Expression in Neuroblastoma. Journal of Korean Medical Science, 2019, 34, e254.	1.1	3

#	ARTICLE	IF	CITATIONS
1088	Can Declining Rates of Dementia Be Explained by the Increased and Widespread Use of Psychotropic Medications?. <i>Journal of Psychosocial Nursing and Mental Health Services</i> , 2016, 54, 25-29.	0.3	4
1089	The response of denervated muscle to long-term stimulation (1985, revisited here in 2014). <i>European Journal of Translational Myology</i> , 2014, 24, 3294.	0.8	17
1090	Therapeutic potential of brain-derived neurotrophic factor (BDNF) and a small molecular mimics of BDNF for traumatic brain injury. <i>Neural Regeneration Research</i> , 2017, 12, 7.	1.6	130
1091	Neurotrophic factors in Alzheimer's and Parkinson's diseases: implications for pathogenesis and therapy. <i>Neural Regeneration Research</i> , 2017, 12, 549.	1.6	160
1092	Microbiota and memory: A symbiotic therapy to counter cognitive decline?. <i>Brain Circulation</i> , 2019, 5, 124.	0.7	27
1093	Neuronal networks in mental diseases and neuropathic pain: Beyond brain derived neurotrophic factor and collapsin response mediator proteins. <i>World Journal of Psychiatry</i> , 2016, 6, 18.	1.3	10
1094	Loss of MeCP2 disrupts cell autonomous and autocrine BDNF signaling in mouse glutamatergic neurons. <i>ELife</i> , 2016, 5, .	2.8	35
1095	Remodeling of lumbar motor circuitry remote to a thoracic spinal cord injury promotes locomotor recovery. <i>ELife</i> , 2018, 7, .	2.8	43
1096	Rbfox1 up-regulation impairs BDNF-dependent hippocampal LTP by dysregulating TrkB isoform expression levels. <i>ELife</i> , 2019, 8, .	2.8	35
1097	Neuroplasticity and the Biological Role of Brain Derived Neurotrophic Factor in the Pathophysiology and Management of Depression. <i>Cureus</i> , 2020, 12, e11396.	0.2	9
1098	Chrysanthemum indicum Prevents Hydrogen Peroxide-Induced Neurotoxicity by Activating the TrkB/Akt Signaling Pathway in Hippocampal Neuronal Cells. <i>Nutrients</i> , 2021, 13, 3690.	1.7	8
1099	Assessment of serum BDNF levels in complex rehabilitation of patients with ischemic stroke using traditional approaches to the restoration of motor functions. <i>Bulletin of Siberian Medicine</i> , 2021, 20, 38-45.	0.1	0
1100	Endocytic BDNF secretion regulated by Vamp3 in astrocytes. <i>Scientific Reports</i> , 2021, 11, 21203.	1.6	8
1101	Astrocytic microdomains from mouse cortex gain molecular control over long-term information storage and memory retention. <i>Communications Biology</i> , 2021, 4, 1152.	2.0	9
1102	Race-Dependent Association of Single-Nucleotide Polymorphisms in TrkB Receptor in People Living with HIV and Depression. <i>Neurotoxicity Research</i> , 2021, 39, 1721-1731.	1.3	1
1103	The Association of Brain-Derived Neurotrophic Factor with Long-Term Potentiation. <i>Shiraz E Medical Journal</i> , 2021, 23, .	0.1	1
1104	The role of sodium channels in direct current stimulationâ€™ axonal perspective. <i>Cell Reports</i> , 2021, 37, 109832.	2.9	9
1105	Effect of BDNF Val66Met polymorphism on hippocampal subfields in multiple sclerosis patients. <i>Molecular Psychiatry</i> , 2022, 27, 1010-1019.	4.1	10

#	ARTICLE	IF	CITATIONS
1106	Genetic polymorphisms of BDNF on cognitive functions in drug-naive first episode patients with schizophrenia. <i>Scientific Reports</i> , 2021, 11, 20057.	1.6	7
1107	7,8-Dihydroxiflavone Protects Adult Rat Axotomized Retinal Ganglion Cells through MAPK/ERK and PI3K/AKT Activation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10896.	1.8	11
1108	How an increase in the copy number of HSV-1 during latency can cause Alzheimer's disease: the viral and cellular dynamics according to the microcompetition model. <i>Journal of NeuroVirology</i> , 2021, 27, 895-916.	1.0	2
1109	Implementation of a Physical Activity Program Protocol in Schoolchildren: Effects on the Endocrine Adipose Tissue and Cognitive Functions. <i>Frontiers in Nutrition</i> , 2021, 8, 761213.	1.6	2
1110	Distinct roles of astroglia and neurons in synaptic plasticity and memory. <i>Molecular Psychiatry</i> , 2022, 27, 873-885.	4.1	24
1111	Brothers in arms: proBDNF/BDNF and sAPP $\beta$ /A $\beta$ <sup>2</sup> -signaling and their common interplay with ADAM10, TrkB, p75NTR, sortilin, and sorLA in the progression of Alzheimer's disease. <i>Biological Chemistry</i> , 2022, 403, 43-71.	1.2	23
1112	Aberrant expression of <i>BDNF</i> might serve as a candidate target for cocaine-induced psychosis: insights from bioinformatics analysis and microarray validation. <i>Annals of General Psychiatry</i> , 2021, 34, e100587.	1.1	2
1114	Stem Cell Strategies for Optic Nerve Protection. <i>Pancreatic Islet Biology</i> , 2014, , 121-143.	0.1	0
1116	Prenatal Exposure to Maternal Cigarette Smoking, Addiction, and the Offspring Brain. , 2015, , 212-230.		1
1118	GABA-driven excitatory neurotransmission: gene regulation by excitatory GABA and its possible role in the developing brain. <i>Neurotransmitter (Houston, Tex)</i> , 0, , .	1.2	1
1119	Neurotrophic Factors and Heart Diseases. <i>Journal of Cardiology and Therapy</i> , 2016, 3, 483-491.	0.1	1
1120	Spinal Cord Injury and Regenerative Repair. , 2017, , 387-408.		0
1121	PHYSIOLOGICAL ROLE OF BONE MARROW ADULT STEM CELL CD133+. <i>Avicenna Bulletin</i> , 2017, 19, 177-182.	0.0	1
1123	Effects of Myokine Factors on Exercise Types in Obese Women. <i>Exercise Science</i> , 2017, 26, 275-280.	0.1	4
1124	Genetic Polymorphisms of Nervous System Development and the Risk of Posttraumatic Stress Disorder. <i>American Journal of Molecular Biology</i> , 2018, 08, 58-68.	0.1	2
1125	Trkb-IP3 Pathway Mediating Neuroprotection in Rat Hippocampal Neuronal Cell Culture Following Induction of Kainic Acid. <i>The Malaysian Journal of Medical Sciences</i> , 2018, 25, 28-45.	0.3	2
1126	Anxiety Induced by Extra-Hypothalamic BDNF Deficiency Instigates Resistance to Diet-Induced Obesity. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1130	Antidepressant pharmacotherapy and poststroke motor rehabilitation: A review of neurophysiologic mechanisms and clinical relevance. <i>Brain Circulation</i> , 2019, 5, 62.	0.7	10

#	ARTICLE	IF	CITATIONS
1132	Neuronal TrkB Drives Oligodendrocyte Production and Central Myelination. SSRN Electronic Journal, 0, , .	0.4	0
1133	Evaluated serum levels of brain-derived neurotrophic factor (bdnf) in elderly patients with acute ischemic stroke. Medical Alphabet, 2019, 1, 48-51.	0.0	1
1137	The Role of Brain-Derived Neurotrophic Factor in Mediating the Action of Antidepressants in the Treatment of Depression. Vestnik Rossiiskoi Akademii Meditsinskikh Nauk, 2019, 74, 20-28.	0.2	1
1141	Hepatocyte Growth Factor and Macrophage-stimulating Protein $\alpha$ -Hinge $\alpha$ -Analogues to Treat Pancreatic Cancer. Current Cancer Drug Targets, 2019, 19, 782-795.	0.8	1
1144	The BDNF-Increasing Allele is Associated With Increased Proportion of Fast-Twitch Muscle Fibers, Handgrip Strength, and Power Athlete Status. Journal of Strength and Conditioning Research, 2022, 36, 1884-1889.	1.0	10
1146	Acupuncture Research for the Brain. , 2021, , 37-49.		1
1147	Fluoxetine acts concomitantly on dorsal and ventral hippocampus to Trk-dependently modulate the extinction of fear memory. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2022, 113, 110451.	2.5	6
1148	Effect and mechanism of ginsenoside Rg1 on synaptic plasticity of oxygen-glucose deprivation/reoxygenation-induced neuronal injury. Pharmacognosy Magazine, 2020, 16, 630.	0.3	2
1149	Linking rotigotine, Parkinson's disease, and brain-derived neurotrophic factor. , 2020, , 221-232.		0
1150	The Influence of the Polymorphism of BDNF, HTR2A, and COMT Genes on the Perception of Emotionally Charged Images. Psychology in Russia: State of the Art, 2020, 13, 47-63.	0.1	0
1152	Targeting the Neuronal Activity of Prefrontal Cortex: New Directions for the Therapy of Depression. Current Neuropharmacology, 2020, 18, 332-346.	1.4	8
1154	Development of and pharmacological treatment options and future research opportunities for separation anxiety in dogs. Journal of the American Veterinary Medical Association, 2021, 259, 1130-1139.	0.2	1
1157	Ischemic Stroke and Depression Biomarkers: Are There Specific Markers for Post-Stroke Depression?. Neurochemical Journal, 2020, 14, 353-361.	0.2	0
1158	Microbiota-Immune System Interactions in Human Neurological Disorders. CNS and Neurological Disorders - Drug Targets, 2020, 19, 509-526.	0.8	0
1159	Gabapentin prevents oxaliplatin-induced central sensitization in the dorsal horn neurons in rats. Iranian Journal of Basic Medical Sciences, 2015, 18, 493-8.	1.0	4
1160	Brain-Derived Neurotrophic Factor: Three Ligands, Many Actions. Transactions of the American Clinical and Climatological Association, 2015, 126, 9-19.	0.9	120
1161	Astrocytes mediated the nootropic and neurotrophic effects of Sarsasapogenin-AA13 via upregulating brain-derived neurotrophic factor. American Journal of Translational Research (discontinued), 2017, 9, 4015-4025.	0.0	1
1162	NELL2 Function in Axon Development of Hippocampal Neurons. Molecules and Cells, 2020, 43, 581-589.	1.0	2

#	ARTICLE	IF	CITATIONS
1163	BDNF-TrkB Signaling in Lifelong Central Nervous System Myelination and Myelin Repair. , 2021, , 1-28.		0
1164	Combined treatment with exercise and $\hat{1}\pm$ 5GABAAR inhibitor promotes motor function recovery after intracerebral hemorrhage. <i>Neuroscience Letters</i> , 2022, 766, 136344.	1.0	5
1165	Do Neurotrophins Connect Neurological Disorders and Heart Diseases?. <i>Biomolecules</i> , 2021, 11, 1730.	1.8	9
1166	Changes in white matter microstructure and MRI-derived cerebral blood flow after 1-week of exercise training. <i>Scientific Reports</i> , 2021, 11, 22061.	1.6	9
1168	7, 8-Dihydroxyflavone, a TrkB receptor agonist, provides minimal protection against retinal vascular damage during oxygen-induced ischemic retinopathy. <i>PLoS ONE</i> , 2021, 16, e0260793.	1.1	3
1169	Cryptotanshinone ameliorates CUS-induced depressive-like behaviors in mice. <i>Translational Neuroscience</i> , 2021, 12, 469-481.	0.7	8
1170	The Role of Natural Products in Treatment of Depressive Disorder. <i>Current Neuropharmacology</i> , 2022, 20, 929-949.	1.4	7
1171	BDNF signaling in context: From synaptic regulation to psychiatric disorders. <i>Cell</i> , 2022, 185, 62-76.	13.5	160
1173	Pleiotropic effects of BDNF on the cerebellum and hippocampus: Implications for neurodevelopmental disorders. <i>Neurobiology of Disease</i> , 2022, 163, 105606.	2.1	36
1174	Precise gene delivery systems with detachable albumin shell remodeling dysfunctional microglia by TREM2 for treatment of Alzheimer's disease. <i>Biomaterials</i> , 2022, 281, 121360.	5.7	19
1175	Serum BDNF levels, glycolipid metabolism in deficit schizophrenia: A case-control study. <i>Asian Journal of Psychiatry</i> , 2022, 69, 103003.	0.9	4
1176	Aspirin ameliorates the cognition impairment in mice following benzo[a]pyrene treatment via down-regulating BDNF IV methylation. <i>NeuroToxicology</i> , 2022, 89, 20-30.	1.4	8
1177	12. DÃ©veloppement du systÃ©me nerveux. , 2017, , 521-569.		0
1178	SLC6A1 and Neuropsychiatric Diseases: The Role of Mutations and Prospects for Treatment with Genome Editing Systems. <i>Neurochemical Journal</i> , 2021, 15, 376-389.	0.2	0
1179	<i>BDNF</i> polymorphism and interhemispheric balance of motor cortex excitability: a preliminary study. <i>Journal of Neurophysiology</i> , 2022, 127, 204-212.	0.9	6
1180	Swimming exercise versus L-carnosine supplementation for Alzheimer's dementia in rats: implication of circulating and hippocampal FND5/irisin. <i>Journal of Physiology and Biochemistry</i> , 2022, 78, 109-124.	1.3	7
1182	The Brain-Derived Neurotrophic Factor Val66Met Polymorphism Is Associated With Female Obsessive-Compulsive Disorder: An Updated Meta-Analysis of 2765 Obsessive-Compulsive Disorder Cases and 5558 Controls. <i>Frontiers in Psychiatry</i> , 2021, 12, 685041.	1.3	2
1183	Exercise types and working memory components during development. <i>Trends in Cognitive Sciences</i> , 2022, 26, 191-203.	4.0	31



#	ARTICLE	IF	CITATIONS
1184	Structural and functional brain alterations in patients with myasthenia gravis. <i>Brain Communications</i> , 2022, 4, fcac018.	1.5	4
1185	The role of plasticity in the recovery of consciousness. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2022, 184, 375-395.	1.0	9
1186	Better language through chemistry: Augmenting speech-language therapy with pharmacotherapy in the treatment of aphasia. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2022, 185, 261-272.	1.0	10
1187	Distribution of Aquaporin-4 channels in hippocampus and prefrontal cortex in mk-801-treated balb/c mice. <i>Ultrastructural Pathology</i> , 2022, , 1-17.	0.4	3
1188	Physical activity ameliorates the function of organs via adipose tissue in metabolic diseases. <i>Acta Histochemica</i> , 2022, 124, 151844.	0.9	25
1189	The role of AMPAR lateral diffusion in memory. <i>Seminars in Cell and Developmental Biology</i> , 2022, 125, 76-83.	2.3	11
1190	Electroconvulsive shock increases neurotrophin and neurogenesis: Time course and treatment session effects. <i>Psychiatry Research</i> , 2022, 309, 114390.	1.7	4
1191	Monogenic Obesity Syndromes Provide Insights Into the Hypothalamic Regulation of Appetite and Associated Behaviors. <i>Biological Psychiatry</i> , 2022, 91, 856-859.	0.7	15
1192	Regulation of <sc>AMPA</sc> trafficking in synaptic plasticity by <sc>BDNF</sc> and the impact of neurodegenerative disease. <i>Journal of Neuroscience Research</i> , 2022, 100, 979-991.	1.3	20
1193	Homeostatic regulation of neuronal excitability by probiotics in male germ-free mice. <i>Journal of Neuroscience Research</i> , 2022, 100, 444-460.	1.3	2
1194	Serum brain injury biomarkers are gestationally and post-natally regulated in non-brain injured neonates. <i>Pediatric Research</i> , 2021, , .	1.1	1
1195	Protective Effect of Insulin in Mouse Nasal Mucus Against Olfactory Epithelium Injury. <i>Frontiers in Neural Circuits</i> , 2021, 15, 803769.	1.4	5
1196	Neuronal Activity Patterns Regulate Brain-Derived Neurotrophic Factor Expression in Cortical Cells via Neuronal Circuits. <i>Frontiers in Neuroscience</i> , 2021, 15, 699583.	1.4	13
1197	Targeting epigenetics as future treatments of trauma- and stress-related disorders. <i>Epidrugs and epinutraceuticals</i> . , 2022, , 317-392.		1
1198	Ontogeny of the Corticolimbic System and the Risk of Anxiety Disorders in Adolescence. <i>Neuroscience and Behavioral Physiology</i> , 2022, 52, 277-286.	0.2	1
1199	Plasmalogens Eliminate Aging-Associated Synaptic Defects and Microglia-Mediated Neuroinflammation in Mice. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 815320.	1.6	15
1200	Manipulating the Level of Sensorimotor Stimulation during LI-rTMS Can Improve Visual Circuit Reorganisation in Adult Ephrin-A2A5 <sup>-/-</sup> Mice. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2418.	1.8	5
1201	Acute Effects of High-Intensity Aerobic Exercise on Motor Cortical Excitability and Inhibition in Sedentary Adults. <i>Frontiers in Psychology</i> , 2022, 13, 814633.	1.1	5

#	ARTICLE	IF	CITATIONS
1202	Activation of translocator protein alleviates mechanical allodynia and bladder dysfunction in cyclophosphamide-induced cystitis through repression of BDNF-mediated neuroinflammation. <i>European Journal of Pain</i> , 2022, , .	1.4	4
1203	The Effect of Interaction NGF/p75NTR in Sperm Cells: A Rabbit Model. <i>Cells</i> , 2022, 11, 1035.	1.8	8
1204	The BDNF Val66Met Polymorphism is a Relevant, But not Determinant, Risk Factor in the Etiology of Neuropsychiatric Disorders – Current Advances in Human Studies: A Systematic Review. <i>Brain Plasticity</i> , 2022, 8, 133-142.	1.9	4
1205	NMDA receptor-dependent prostaglandin-endoperoxide synthase 2 induction in neurons promotes glial proliferation during brain development and injury. <i>Cell Reports</i> , 2022, 38, 110557.	2.9	8
1206	Prenatal Isoflurane Exposure Induces Developmental Neurotoxicity in Rats: the Role of Gut Microbiota. <i>Neurotoxicity Research</i> , 2022, , 1.	1.3	4
1207	The effect of physical exercise on circulating brain-derived neurotrophic factor in healthy subjects: A meta-analysis of randomized controlled trials. <i>Brain and Behavior</i> , 2022, 12, e2544.	1.0	19
1208	Neural Signaling in Cancer. <i>Annual Review of Neuroscience</i> , 2022, 45, 199-221.	5.0	10
1209	Effects of Involuntary and Voluntary Exercise in Combination with Acousto-Optic Stimulation on Adult Neurogenesis in an Alzheimer's Mouse Model. <i>Molecular Neurobiology</i> , 2022, , 1.	1.9	5
1210	Neurotrophic factors and brain health in children with overweight and obesity: The role of cardiorespiratory fitness. <i>European Journal of Sport Science</i> , 2023, 23, 637-648.	1.4	5
1211	Molecular-Scale Dynamics of Long Range Retrograde Brain-Derived Neurotrophic Factor Transport Shaped by Cellular Spatial Context. <i>Frontiers in Neuroscience</i> , 2022, 16, 835815.	1.4	3
1212	Neurexins play a crucial role in cerebellar granule cell survival by organizing autocrine machinery for neurotrophins. <i>Cell Reports</i> , 2022, 39, 110624.	2.9	8
1213	Prior short-term exercise prevents behavioral and biochemical abnormalities induced by single prolonged stress in a rat model of posttraumatic stress disorder. <i>Behavioural Brain Research</i> , 2022, 428, 113864.	1.2	3
1214	Stress induced microglial activation contributes to depression. <i>Pharmacological Research</i> , 2022, 179, 106145.	3.1	36
1215	Peptide WCPFSRSF ameliorates excitotoxicity and elevates synaptic plasticity in glutamate-damaged SH-SY5Y cells by modulating the PI3K/mTOR/EIF4E and BDNF/CREB/TrkB pathways. <i>Food Bioscience</i> , 2022, 47, 101696.	2.0	4
1216	Cord serum brain-derived neurotrophic factor levels at birth associate with temperament outcomes at one year. <i>Journal of Psychiatric Research</i> , 2022, 150, 47-53.	1.5	1
1219	The overexpression of GDNF in nucleus accumbens suppresses alcohol-seeking behavior in group-housed C57Bl/6j female mice. <i>Journal of Biomedical Science</i> , 2021, 28, 87.	2.6	3
1220	Ubiquitin ligase TRIM32 promotes dendrite arborization by mediating degradation of the epigenetic factor CDYL. <i>FASEB Journal</i> , 2022, 36, e22087.	0.2	0
1221	Influence of early life stress on depression: from the perspective of neuroendocrine to the participation of gut microbiota. <i>Aging</i> , 2021, 13, 25588-25601.	1.4	11

#	ARTICLE	IF	CITATIONS
1223	Mongolian Medicine Areca Thirteen Pill (GY-13) Improved Depressive Syndrome via upregulating cAMP/PKA/CREB/BDNF signaling pathway. <i>Journal of Ethnopharmacology</i> , 2022, 293, 115310.	2.0	8
1224	Does Resveratrol Prevent Sevoflurane Toxicity in Newborn Rats?. <i>Journal of Medicinal Food</i> , 2022, 25, 557-563.	0.8	1
1265	Increased apoptotic sensitivity of glioblastoma enables therapeutic targeting by BH3-mimetics. <i>Cell Death and Differentiation</i> , 2022, 29, 2089-2104.	5.0	10
1266	Aluminium oxide nanoparticles compromise spatial memory performance and proBDNF-mediated neuronal function in the hippocampus of rats. <i>Particle and Fibre Toxicology</i> , 2022, 19, 34.	2.8	10
1267	Dietary flavonoids-rich <i>Citrus reticulata</i> peel extract interacts with CREB signaling to suppress seizures and linked neurobehavioral impairments in a kindling mouse model. <i>Nutritional Neuroscience</i> , 2023, 26, 582-593.	1.5	3
1268	Roles of the Unsaturated Fatty Acid Docosahexaenoic Acid in the Central Nervous System: Molecular and Cellular Insights. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5390.	1.8	13
1269	Expression of Nerve Growth Factor and Its Receptor TrkA in the Reproductive System of Adult Zebrafish. <i>Veterinary Sciences</i> , 2022, 9, 225.	0.6	7
1270	Editorial: Neurotrophins Bidelivery to CNS: Innovative Approaches for Disease-Modifying Therapy. <i>Frontiers in Neuroscience</i> , 2022, 16, .	1.4	0
1271	Insulin-like growth factor 5 associates with human A $\beta$ plaques and promotes cognitive impairment. <i>Acta Neuropathologica Communications</i> , 2022, 10, 68.	2.4	2
1272	Therapeutic horticulture as a potential tool of preventive geriatric medicine improving health, well-being and life quality – A systematic review. <i>Folia Horticulturae</i> , 2022, 34, 85-104.	0.6	2
1273	ProBDNF and Brain-Derived Neurotrophic Factor Prodomain Differently Modulate Acetylcholine Release in Regenerating and Mature Mouse Motor Synapses. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 866802.	1.8	4
1274	Exercise in Parkinson's disease. , 2022, , 403-412.		1
1275	Brain-Derived Neurotrophic Factor in Neurodegenerative Disorders. <i>Biomedicines</i> , 2022, 10, 1143.	1.4	31
1276	Voluntary Exercise Boosts Striatal Dopamine Release: Evidence for the Necessary and Sufficient Role of BDNF. <i>Journal of Neuroscience</i> , 2022, 42, 4725-4736.	1.7	32
1277	Local BMP signaling: A sensor for synaptic activity that balances synapse growth and function. <i>Current Topics in Developmental Biology</i> , 2022, , 211-254.	1.0	3
1278	Brain-Derived Neurotrophic Factor-Mediated Neuroprotection in Glaucoma: A Review of Current State of the Art. <i>Frontiers in Pharmacology</i> , 2022, 13, .	1.6	17
1279	Neurotrophin Signaling Impairment by Viral Infections in the Central Nervous System. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5817.	1.8	10
1281	Development of Memory Circuits under Epigenetic Regulation. , 2022, , 438-453.		0

#	ARTICLE	IF	CITATIONS
1282	Chronic Chemogenetic Activation of the Superior Colliculus in Glaucomatous Mice: Local and Retrograde Molecular Signature. <i>Cells</i> , 2022, 11, 1784.	1.8	6
1283	Brain Proteome and Behavioural Analysis in Wild Type, BDNF+/+ and BDNF+/- Adult Zebrafish (Danio) Tj ETQq1 1 0.784314 rgBT /Dv 5606.	1.8	4
1284	Transactivation of TrkB Receptors by Oxytocin and Its G Protein-Coupled Receptor. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, .	1.4	8
1285	Xiaoyaosan inhibits neuronal apoptosis by regulating the miR-200/NR3C1 signaling in the prefrontal cortex of chronically stressed rats. <i>Phytomedicine</i> , 2022, 103, 154239.	2.3	6
1286	Impaired dynamic interaction of axonal endoplasmic reticulum and ribosomes contributes to defective stimulus-response in spinal muscular atrophy. <i>Translational Neurodegeneration</i> , 2022, 11, .	3.6	2
1287	Astrocyte-synapse interactions and cell adhesion molecules. <i>FEBS Journal</i> , 2023, 290, 3512-3526.	2.2	19
1288	A Common Human Brain-Derived Neurotrophic Factor Polymorphism Leads to Prolonged Depression of Excitatory Synaptic Transmission by Isoflurane in Hippocampal Cultures. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	0
1289	Differential effects of excess high-fructose corn syrup on the DNA methylation of hippocampal neurotrophic factor in childhood and adolescence. <i>PLoS ONE</i> , 2022, 17, e0270144.	1.1	6
1290	The Rab11-regulated endocytic pathway and BDNF/TrkB signaling: Roles in plasticity changes and neurodegenerative diseases. <i>Neurobiology of Disease</i> , 2022, 171, 105796.	2.1	11
1292	RNA and neuronal function: the importance of post-transcriptional regulation. , 2022, 1, .		4
1293	Ras Inhibitor Lonafarnib Rescues Structural and Functional Impairments of Synapses of $Al^2$ <sub>1-42</sub> Mice via $1\pm 7n$ AChR-Dependent BDNF Upregulation. <i>Journal of Neuroscience</i> , 2022, 42, 6090-6107.	1.7	1
1294	Actions of the TrkB Agonist Antibody ZEB85 in Regulating the Architecture and Synaptic Plasticity in Hippocampal Neurons. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	3
1295	Depression in Adolescence and Brain-Derived Neurotrophic Factor. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	8
1296	Uncovering the Underlying Mechanisms of Ketamine as a Novel Antidepressant. <i>Frontiers in Pharmacology</i> , 0, 12, .	1.6	15
1297	Brain-Derived Neurotrophic Factor Inhibits the Function of Cation-Chloride Cotransporter in a Mouse Model of Viral Infection-Induced Epilepsy. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	6
1298	Neuroprotection of exercise: P2X4R and P2X7R regulate BDNF actions. <i>Purinergic Signalling</i> , 2023, 19, 297-303.	1.1	5
1299	TPPU Downregulates Oxidative Stress Damage and Induces BDNF Expression in PC-12 Cells. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-7.	0.7	3
1300	Metabolomic profiling relates tianeptine effectiveness with hippocampal GABA, myo-inositol, cholesterol, and fatty acid metabolism restoration in socially isolated rats. <i>Psychopharmacology</i> , 2022, 239, 2955-2974.	1.5	3

#	ARTICLE	IF	CITATIONS
1301	Serum and plasma levels of brain-derived neurotrophic factor in individuals with eating disorders (EDs): a systematic review and meta-analysis. <i>Journal of Eating Disorders</i> , 2022, 10, .	1.3	6
1302	Copolymer-1 as a potential therapy for mild cognitive impairment. <i>Brain and Cognition</i> , 2022, 162, 105892.	0.8	1
1303	Sigma-1 receptor: A potential target for the development of antidepressants. <i>Neurochemistry International</i> , 2022, 159, 105390.	1.9	7
1304	Brain-derived neurotrophic factor expression in serotonergic neurons improves stress resilience and promotes adult hippocampal neurogenesis. <i>Progress in Neurobiology</i> , 2022, 217, 102333.	2.8	13
1305	Pyrethroids and developmental neurotoxicity - A critical review of epidemiological studies and supporting mechanistic evidence. <i>Environmental Research</i> , 2022, 214, 113935.	3.7	23
1306	Müller glia-derived exosomes and their microRNA cargo—potential for glaucoma therapies. , 2022, , 543-559.		0
1307	Multiple Mechanistic Models Reveal the Neuroprotective Effects of Diterpene Ginkgolides against Astrocyte-Mediated Demyelination via the PAF-PAFR Pathway. <i>The American Journal of Chinese Medicine</i> , 2022, 50, 1565-1597.	1.5	9
1308	Astrocytic ERK/STAT1 Signaling Contributes to Maintenance of Stress-Related Visceral Hypersensitivity in Rats. <i>Journal of Pain</i> , 2022, 23, 1973-1988.	0.7	2
1309	Tuning the Size of Large Dense-Core Vesicles and Quantal Neurotransmitter Release via Secretogranin II Liquid-Liquid Phase Separation. <i>Advanced Science</i> , 2022, 9, .	5.6	6
1310	The impact of maternal high-fat diet on offspring neurodevelopment. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	23
1311	New Frontiers in Neurodegeneration and Regeneration Associated with Brain-Derived Neurotrophic Factor and the rs6265 Single Nucleotide Polymorphism. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8011.	1.8	15
1312	3D-printed hyaluronic acid hydrogel scaffolds impregnated with neurotrophic factors (BDNF, GDNF) for post-traumatic brain tissue reconstruction. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	7
1313	Pathophysiology of Depression: Stingless Bee Honey Promising as an Antidepressant. <i>Molecules</i> , 2022, 27, 5091.	1.7	4
1315	Mechanistic Insights into the Pharmacological Significance of Silymarin. <i>Molecules</i> , 2022, 27, 5327.	1.7	37
1316	Wnt Signaling Inhibitors Potently Drive Trans-differentiation Potential of Mesenchymal Stem Cells Towards Neuronal Lineage. <i>Journal of Medical and Biological Engineering</i> , 2022, 42, 630-646.	1.0	2
1318	Development of a platform to investigate long-term potentiation in human iPSC-derived neuronal networks. <i>Stem Cell Reports</i> , 2022, 17, 2141-2155.	2.3	5
1319	BDNF, proBDNF and IGF-1 serum levels in naïve and medicated subjects with autism. <i>Scientific Reports</i> , 2022, 12, .	1.6	8
1320	Cap-independent translation of <i>GPLD1</i> enhances markers of brain health in <i>long-lived</i> mutant and <i>drug-treated</i> mice. <i>Aging Cell</i> , 2022, 21, .	3.0	9

#	ARTICLE	IF	CITATIONS
1321	Combination of panax ginseng and ginkgo biloba extracts attenuate cerebral ischemia injury with modulation of NLRP3 inflammasome and CAMK4/CREB pathway. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	1
1322	Comparative chromatin accessibility upon BDNF stimulation delineates neuronal regulatory elements. <i>Molecular Systems Biology</i> , 2022, 18, .	3.2	7
1323	Genetic polymorphisms in COMT and BDNF influence synchronization dynamics of human neuronal oscillations. <i>IScience</i> , 2022, 25, 104985.	1.9	4
1324	Chronic N-Acetylcysteine Treatment Prevents Amphetamine-Induced Hyperactivity in Heterozygous Disc1 Mutant Mice, a Putative Prodromal Schizophrenia Animal Model. <i>International Journal of Molecular Sciences</i> , 2022, 23, 9419.	1.8	3
1325	Luteolin-7-O-Glucuronide Improves Depression-like and Stress Coping Behaviors in Sleep Deprivation Stress Model by Activation of the BDNF Signaling. <i>Nutrients</i> , 2022, 14, 3314.	1.7	16
1326	Chronic Fluoxetine Treatment of Socially Isolated Rats Modulates Prefrontal Cortex Proteome. <i>Neuroscience</i> , 2022, 501, 52-71.	1.1	8
1327	Evolutionary Perspective on Improving Mental Health. <i>Encyclopedia</i> , 2022, 2, 1464-1482.	2.4	1
1328	Natural Polymerâ€Derived Bioscaffolds for Peripheral Nerve Regeneration. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	21
1329	The opioid system in depression. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 140, 104800.	2.9	22
1330	Increased Anxiety-like Behaviors in Adgral <sup>+/+</sup> Male But Not Female Mice are Attributable to Elevated Neuron Dendrite Density, Upregulated PSD95 Expression, and Abnormal Activation of the PI3K/AKT/GSK-3 <sup>β</sup> and MEK/ERK Pathways. <i>Neuroscience</i> , 2022, 503, 131-145.	1.1	7
1331	Acetoacetate Improves Memory in Alzheimerâ€™s Mice via Promoting Brain-Derived Neurotrophic Factor and Inhibiting Inflammation. <i>American Journal of Alzheimer's Disease and Other Dementias</i> , 2022, 37, 153331752211249.	0.9	7
1332	Correlation of BDNF Gene Polymorphism and Psychological Nursing Intervention in Patients with Recurrent Spontaneous Abortion. <i>Health</i> , 2022, 14, 910-920.	0.1	0
1333	Effects of Depression and Antidepressant Therapy on Serum Zinc Levels. , 2022, , 123-137.		0
1334	The Gutâ€Immuneâ€Brain Axis: An Important Route for Neuropsychiatric Morbidity in Inflammatory Bowel Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11111.	1.8	11
1335	Role of irisin in physiology and pathology. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	17
1336	Transcription factors are potential therapeutic targets in epilepsy. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 4875-4885.	1.6	6
1337	Effects of a home-based Radio-Taiso exercise programme on health-related quality of life in older adults with frailty: protocol for an assessor-blind randomised controlled trial. <i>BMJ Open</i> , 2022, 12, e063201.	0.8	2
1338	Normalization of Neuroinflammation: A New Strategy for Treatment of Persistent Pain and Memory/Emotional Deficits in Chronic Pain. <i>Journal of Inflammation Research</i> , 0, Volume 15, 5201-5233.	1.6	8

#	ARTICLE	IF	CITATIONS
1339	Zinc Supplementation Partially Decreases the Harmful Effects of a Cafeteria Diet in Rats but Does Not Prevent Intestinal Dysbiosis. <i>Nutrients</i> , 2022, 14, 3921.	1.7	8
1340	<i>Lactobacillus plantarum</i> ST-III culture supernatant ameliorates alcohol-induced cognitive dysfunction by reducing endoplasmic reticulum stress and oxidative stress. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	9
1341	Bioluminescence imaging using <i>luciferase</i> -luciferin and its analogs for visualizing <i>Bdnf</i> expression in living mice; different patterns of bioluminescence signals using distinct luciferase substrates. <i>Journal of Biochemistry</i> , 2022, 172, 321-327.	0.9	2
1342	Altered synaptic protein expression, aberrant spine morphology, and impaired spatial memory in <i>Dlgap2</i> mutant mice, a genetic model of autism spectrum disorder. <i>Cerebral Cortex</i> , 2023, 33, 4779-4793.	1.6	2
1343	Novel TRKB agonists activate TRKB and downstream ERK and AKT signaling to protect $A\beta$ -GFP SH-SY5Y cells against $A\beta$ toxicity. <i>Aging</i> , 2022, 14, 7568-7586.	1.4	9
1344	Differentiation signals from glia are fine-tuned to set neuronal numbers during development. <i>ELife</i> , 0, 11, .	2.8	3
1345	Age-related differences for expression of the nerve-specific proteins after peripheral nerve injury. <i>Experimental and Therapeutic Medicine</i> , 2022, 24, .	0.8	1
1346	Role of sirtuin1 in impairments of emotion-related behaviors in mice with chronic mild unpredictable stress during adolescence. <i>Physiology and Behavior</i> , 2022, 257, 113971.	1.0	7
1347	Trophic Factors: Neurotrophic Factors. , 2022, , 2159-2193.		0
1348	Molecular and Functional Characterization of BDNF-Overexpressing Human Retinal Pigment Epithelial Cells Established by Sleeping Beauty Transposon-Mediated Gene Transfer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 12982.	1.8	4
1349	Brain-Derived Neurotrophic Factor: A Novel Dynamically Regulated Therapeutic Modulator in Neurological Disorders. <i>Neurochemical Research</i> , 2023, 48, 317-339.	1.6	14
1351	A Bibliometric Analysis of Research on the Role of BDNF in Depression and Treatment. <i>Biomolecules</i> , 2022, 12, 1464.	1.8	6
1352	Perioperative considerations in patients with chemotherapy-induced cognitive impairment: a narrative review. <i>British Journal of Anaesthesia</i> , 2022, , .	1.5	1
1353	Implication of saturated fats in the aetiology of childhood attention deficit/hyperactivity disorder – A narrative review. <i>Clinical Nutrition ESPEN</i> , 2022, 52, 78-85.	0.5	1
1354	Therapeutic potential of plant iridoids in depression: a review. <i>Pharmaceutical Biology</i> , 2022, 60, 2167-2181.	1.3	6
1355	Paternal preconceptional diet enriched with n-3 polyunsaturated fatty acids affects offspring brain function in mice. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	0
1356	BDNF receptor TrkB as the mediator of the antidepressant drug action. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	16
1357	Bisphenol A exposure links to exacerbation of memory and cognitive impairment: A systematic review of the literature. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 143, 104939.	2.9	16

#	ARTICLE	IF	CITATIONS
1358	Cognitive impairment in psychiatric diseases: Biomarkers of diagnosis, treatment, and prevention. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, .	1.8	2
1359	NEW MARKERS FOR DIAGNOSIS AND PROGNOSIS OF COGNITIVE IMPAIRMENT IN PATIENTS WITH MULTIPLE SCLEROSIS (review). <i>Inter Collegas</i> , 2022, 9, 14-18.	0.0	0
1360	<i>Polygonatum sibiricum</i> ameliorated cognitive impairment of naturally aging rats through BDNF-TrkB signaling pathway. <i>Journal of Food Biochemistry</i> , 2022, 46, .	1.2	5
1361	Microglia: Synaptic modulator in autism spectrum disorder. <i>Frontiers in Psychiatry</i> , 0, 13, .	1.3	5
1362	Neurotrophic Activity and Its Modulation by Zinc Ion of a Dimeric Peptide Mimicking the Brain-Derived Neurotrophic Factor N-Terminal Region. <i>ACS Chemical Neuroscience</i> , 0, , .	1.7	1
1363	Stable and efficient expression of human brain-derived neurotrophic factor in tobacco chloroplasts. <i>Molecular Biology Reports</i> , 0, , .	1.0	0
1364	Function of brain-derived neurotrophic factor in the hypothalamus: Implications for depression pathology. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	5
1365	Presentation and integration of multiple signals that modulate oligodendrocyte lineage progression and myelination. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, .	1.8	4
1366	Maternal immune activation-induced proBDNF-mediated neural information processing dysfunction at hippocampal CA3-CA1 synapses associated with memory deficits in offspring. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	1
1367	Cytokines and neurotrophic factors in the severity assessment of children autism. <i>Klinicheskaya Laboratornaya Diagnostika</i> , 2022, 67, 647-651.	0.2	2
1368	Effect of in ovo feeding of folic acid on brain derived neurotrophic factor (BDNF) and gga-miR-190a-3p expression in the developing cerebral cortex of chickens. <i>Research in Veterinary Science</i> , 2023, 154, 73-77.	0.9	1
1369	A novel intergenic enhancer that regulates Bdnf expression in developing cortical neurons. <i>IScience</i> , 2023, 26, 105695.	1.9	1
1370	Hippocampal region-specific endogenous neuroprotection as an approach in the search for new neuroprotective strategies in ischemic stroke. Fiction or fact?. <i>Neurochemistry International</i> , 2023, 162, 105455.	1.9	1
1371	Impaired synaptic plasticity in an animal model of autism exhibiting early hippocampal GABAergic-BDNF/TrkB signaling alterations. <i>IScience</i> , 2023, 26, 105728.	1.9	8
1372	Glial cell line-derived neurotrophic factor and brain-derived neurotrophic factor regulate the interaction between astrocytes and Schwann cells at the trigeminal root entry zone. <i>Neural Regeneration Research</i> , 2023, 18, 1364.	1.6	2
1373	Increased left dorsolateral prefrontal cortex density following escitalopram intake during relearning: a randomized, placebo-controlled trial in healthy humans. <i>Therapeutic Advances in Psychopharmacology</i> , 2022, 12, 204512532211320.	1.2	0
1376	BDNF as a Mediator of Antidepressant Response: Recent Advances and Lifestyle Interactions. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14445.	1.8	14
1377	Curcumin-Nicotinate Attenuates Hippocampal Synaptogenesis Dysfunction in Hyperlipidemia Rats by the BDNF/TrkB/CREB Pathway: Involving Idol/LDLR Signaling to Eliminate A $\beta$ 2 Deposition. <i>Natural Product Communications</i> , 2022, 17, 1934578X2211411.	0.2	0



#	ARTICLE	IF	CITATIONS
1378	Antidepressive Effect of Natural Products and Their Derivatives Targeting BDNF-TrkB in Gutâ€“Brain Axis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14968.	1.8	8
1379	Review of Herbal Medicines for the Treatment of Depression. <i>Natural Product Communications</i> , 2022, 17, 1934578X2211390.	0.2	0
1380	Cryptic mutations of PLC family members in brain disorders: recent discoveries and a deep learning-based approach. <i>Brain</i> , 0, , .	3.7	2
1381	Alcohol Withdrawal and the Associated Mood Disordersâ€™A Review. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14912.	1.8	3
1382	Fluoxetine Enhances Synaptic Vesicle Trafficking and Energy Metabolism in the Hippocampus of Socially Isolated Rats. <i>International Journal of Molecular Sciences</i> , 2022, 23, 15351.	1.8	1
1383	Insights into the Pathophysiology of Alzheimerâ€™s Disease and Potential Therapeutic Targets: A Current Perspective. <i>Journal of Alzheimer's Disease</i> , 2023, 91, 507-530.	1.2	8
1384	BDNF enhances electrophysiological activity and excitatory synaptic transmission of RA projection neurons in adult male zebra finches. <i>Brain Research</i> , 2023, 1801, 148208.	1.1	2
1385	Brainâ€“derived neurotrophic factor (<sc>BDNF</sc>) induces antagonistic action to Nogo signaling by the upregulation of lateral olfactory tract usher substance (<sc>LOTUS</sc>) expression. <i>Journal of Neurochemistry</i> , 2023, 164, 29-43.	2.1	2
1386	Brain modulation by the gut microbiota: From disease to therapy. <i>Journal of Advanced Research</i> , 2023, 53, 153-173.	4.4	16
1387	Functional reconstruction of the basal ganglia neural circuit by human striatal neurons in hypoxicâ€“ischaemic injured brain. <i>Brain</i> , 2023, 146, 612-628.	3.7	1
1388	Production of brain-derived neurotrophic factor gates plasticity in developing visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	3.3	2
1389	Hallmarks of peripheral nerve function in bone regeneration. <i>Bone Research</i> , 2023, 11, .	5.4	15
1391	Peripheral brain-derived neurotrophic factor (BDNF) in insomnia: A systematic review and meta-analysis. <i>Sleep Medicine Reviews</i> , 2023, 67, 101738.	3.8	12
1392	Fermented <i>Perilla frutescens</i> Ameliorates Depression-like Behavior in Sleep-Deprivation-Induced Stress Model. <i>International Journal of Molecular Sciences</i> , 2023, 24, 622.	1.8	5
1393	Phytochemicals That Act on Synaptic Plasticity as Potential Prophylaxis against Stress-Induced Depressive Disorder. <i>Biomolecules and Therapeutics</i> , 2023, 31, 148-160.	1.1	6
1394	Platelet-rich plasma, their growth factors, cytokines and clinical use. , 2023, , 265-314.		1
1395	Developmental Disorders of the Cerebellum and Neurotrophic Factors. <i>Contemporary Clinical Neuroscience</i> , 2023, , 193-219.	0.3	0
1396	High throughput assay for compounds that boost BDNF expression in neurons. <i>SLAS Discovery</i> , 2023, 28, 88-94.	1.4	1

#	ARTICLE	IF	CITATIONS
1397	SRF and SRF Cofactor mRNA Expression Is Differentially Regulated by BDNF Stimulation in Cortical Neurons. <i>Biological and Pharmaceutical Bulletin</i> , 2023, 46, 636-639.	0.6	1
1398	Ketamine reduces electrophysiological network activity in cortical neuron cultures already at sub-micromolar concentrations $\hat{\epsilon}$ Impact on TrkB-ERK1/2 signaling. <i>Neuropharmacology</i> , 2023, 229, 109481.	2.0	2
1399	Suppression of neuroinflammation and $\hat{\epsilon}$ -synuclein oligomerization by rotarod walking exercise in subacute MPTP model of Parkinson's disease. <i>Neurochemistry International</i> , 2023, 165, 105519.	1.9	4
1400	Selectively compromised inner retina function following hypoxic-ischemic encephalopathy in mice: A noninvasive measure of severity of the injury. <i>Neurochemistry International</i> , 2023, 163, 105471.	1.9	0
1401	BDNF-TrkB Signaling in Lifelong Central Nervous System Myelination and Myelin Repair. , 2022, , 95-122.		0
1402	BDNF as a biomarker for neuropathic pain: Consideration of mechanisms of action and associated measurement challenges. <i>Brain and Behavior</i> , 2023, 13, .	1.0	10
1403	The multiple roles of salt-inducible kinases in regulating physiology. <i>Physiological Reviews</i> , 2023, 103, 2231-2269.	13.1	3
1404	Neuroprotective Roles of Apelin-13 in Neurological Diseases. <i>Neurochemical Research</i> , 2023, 48, 1648-1662.	1.6	6
1405	The potential neuroprotective effects of stingless bee honey. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	3
1406	Peripheral Regulation of Central Brain-Derived Neurotrophic Factor Expression through the Vagus Nerve. <i>International Journal of Molecular Sciences</i> , 2023, 24, 3543.	1.8	7
1407	Effects of moderate-intensity aerobic exercise on serum BDNF and motor learning in the upper-limb in patients after chronic-stroke: A randomized, controlled feasibility study with embedded health economic evaluation. <i>NeuroRehabilitation</i> , 2023, 52, 485-506.	0.5	0
1408	Dimethyl itaconate ameliorates cognitive impairment induced by a high-fat diet via the gut-brain axis in mice. <i>Microbiome</i> , 2023, 11, .	4.9	16
1409	Effects of Maternal High-Fructose Diet on Long Non-Coding RNAs and Anxiety-like Behaviors in Offspring. <i>International Journal of Molecular Sciences</i> , 2023, 24, 4460.	1.8	3
1410	Potential protective effects of red grape seed extract in a rat model of malathion-induced neurotoxicity. <i>Veterinary World</i> , 0, , 380-385.	0.7	0
1411	Neurotrophins and Other Growth Factors in the Pathogenesis of Alzheimer's Disease. <i>Life</i> , 2023, 13, 647.	1.1	9
1412	Moderate-Intensity Intermittent Training Alters the DNA Methylation Pattern of PDE4D Gene in Hippocampus to Improve the Ability of Spatial Learning and Memory in Aging Rats Reduced by D-Galactose. <i>Brain Sciences</i> , 2023, 13, 422.	1.1	6
1413	Integrating Network Pharmacology, Molecular Docking and Pharmacological Evaluation for Exploring the Polyrhachis vicina Rogers in Ameliorating Depression. <i>Drug Design, Development and Therapy</i> , 0, Volume 17, 717-735.	2.0	3
1414	Forward Genetics-Based Approaches to Understanding the Systems Biology and Molecular Mechanisms of Epilepsy. <i>International Journal of Molecular Sciences</i> , 2023, 24, 5280.	1.8	5

#	ARTICLE	IF	CITATIONS
1415	Dysregulation of AMPA Receptor Trafficking and Intracellular Vesicular Sorting in the Prefrontal Cortex of Dopamine Transporter Knock-Out Rats. <i>Biomolecules</i> , 2023, 13, 516.	1.8	1
1416	Odor input at specific times is important for maturation of newly generated olfactory sensory neurons. <i>Journal of Japan Association on Odor Environment</i> , 2023, 54, 127-131.	0.1	0
1417	Engineered Mesenchymal Stem Cells Over-Expressing BDNF Protect the Brain from Traumatic Brain Injury-Induced Neuronal Death, Neurological Deficits, and Cognitive Impairments. <i>Pharmaceuticals</i> , 2023, 16, 436.	1.7	5
1418	Rate thresholds in cell signaling have functional and phenotypic consequences in non-linear time-dependent environments. <i>Frontiers in Cell and Developmental Biology</i> , 0, 11, .	1.8	4
1419	TrkC Intracellular Signalling in the Brain Fear Network During the Formation of a Contextual Fear Memory. <i>Molecular Neurobiology</i> , 2023, 60, 3507-3521.	1.9	1
1420	Research Progress on the Etiology and Pathogenesis of Alzheimer's Disease from the Perspective of Chronic Stress. , 2022, .		1
1421	Role of BDNF in Neuroplasticity Associated with Alcohol Dependence. <i>Biochemistry (Moscow)</i> , 2023, 88, 404-416.	0.7	1
1422	Delayed Outgrowth in Response to the BDNF and Altered Synaptic Proteins in Neurons From SHR Rats. <i>Neurochemical Research</i> , 2023, 48, 2424-2435.	1.6	2
1423	Unlocking the Therapeutic Potential of Irisin: Harnessing Its Function in Degenerative Disorders and Tissue Regeneration. <i>International Journal of Molecular Sciences</i> , 2023, 24, 6551.	1.8	1
1424	Total fat and omega-3 fatty acids intake in relation to serum brain-derived neurotrophic factor (BDNF) levels and psychological disorders in Iranian adults. <i>Scientific Reports</i> , 2023, 13, .	1.6	2
1425	Diverse Functions of Multiple Bdnf Transcripts Driven by Distinct Bdnf Promoters. <i>Biomolecules</i> , 2023, 13, 655.	1.8	4
1426	The Role of BDNF as a Biomarker in Cognitive and Sensory Neurodegeneration. <i>Journal of Personalized Medicine</i> , 2023, 13, 652.	1.1	9
1427	The association of brain-derived neurotrophic factor with the diagnosis and treatment response in depression. <i>Expert Review of Molecular Diagnostics</i> , 2023, 23, 283-296.	1.5	3
1428	Association between Psychopathological Symptoms and Aggression and Selected Biochemical Parameters in Adolescents with Behavioural and Emotional Disturbances. <i>International Journal of Molecular Sciences</i> , 2023, 24, 7097.	1.8	1
1429	Unveiling behavioral and molecular neuroadaptations related to the antidepressant action of cannabidiol in the unpredictable chronic mild stress model. <i>Frontiers in Pharmacology</i> , 0, 14, .	1.6	1
1455	Roles of Trk receptors, tyrosine kinase receptors for neurotrophins, in the developing CNS. , 2023, , 79-115.		1
1463	Neuron-Cancer Synaptic and Other Electrical Signaling. , 2023, , 27-34.		0
1466	Effects of Physical Activity on Parkinson's Disease Patients. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2023, , 275-295.	0.1	1

#	ARTICLE	IF	CITATIONS
1478	The role of neurotrophic factors in novel, rapid psychiatric treatments. <i>Neuropsychopharmacology</i> , 2024, 49, 227-245.	2.8	6
1483	Biosensors, Recent Advances in Determination of BDNF and NfL. <i>Cellular and Molecular Neurobiology</i> , 2023, 43, 3801-3814.	1.7	2
1484	Systemic Onco-Sphere: Host Neuronal System in Cancer. , 2023, , 511-534.		0
1497	The Role of Brain-Derived Neurotrophic Factor in Autism Spectrum Disorder: Current Findings and Future Directions. <i>Biochemistry</i> , 0, , .	0.8	0
1503	Opioid Mechanisms and the Treatment of Depression. <i>Current Topics in Behavioral Neurosciences</i> , 2023, , .	0.8	0
1505	Human neuronal maturation comes of age: cellular mechanisms and species differences. <i>Nature Reviews Neuroscience</i> , 2024, 25, 7-29.	4.9	3
1506	Brain cancer thrives by hijacking mechanisms to boost synapse strength. <i>Nature</i> , 2023, 623, 260-262.	13.7	0
1545	Neuroprotection induced by neurotrophic factors. , 2024, , 635-659.		0
1546	Emerging potential neuroregenerative strategies for degenerative cervical myelopathy. , 2023, , 313-324.		0
1547	Obesity and Depression. Some Neurochemical and Molecular Links. <i>Neurochemical Journal</i> , 2023, 17, 618-622.	0.2	0