

Cells that Express Brain-Derived Neurotrophic Factor in Rat Brain

European Journal of Neuroscience

3, 688-697

DOI: [10.1111/j.1460-9568.1991.tb00854.x](https://doi.org/10.1111/j.1460-9568.1991.tb00854.x)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Hippocampal damage and kainic acid injection induce a rapid increase in mRNA for BDNF and NGF in the rat brain. <i>Experimental Neurology</i> , 1991, 114, 35-43.	2.0	275
2	Temporal and spatial expression of NGF receptor mRNA during postnatal rat brain development analyzed by in situ hybridization. <i>Developmental Brain Research</i> , 1991, 63, 43-51.	2.1	40
3	Increased levels of messenger RNAs for neurotrophic factors in the brain during kindling epileptogenesis. <i>Neuron</i> , 1991, 7, 165-176.	3.8	613
4	Neurotrophin-5: A novel neurotrophic factor that activates trk and trkB. <i>Neuron</i> , 1991, 7, 857-866.	3.8	812
5	Developmentally Regulated Expression of HDNF/NT-3 mRNA in Rat Spinal Cord Motoneurons and Expression of BDNF mRNA in Embryonic Dorsal Root Ganglion. <i>European Journal of Neuroscience</i> , 1991, 3, 953-961.	1.2	145
7	Differential regulation of mRNAs for nerve growth factor, brain-derived neurotrophic factor, and neurotrophin 3 in the adult rat brain following cerebral ischemia and hypoglycemic coma.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 648-652.	3.3	485
8	Mammalian neurotrophin-4: structure, chromosomal localization, tissue distribution, and receptor specificity.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 3060-3064.	3.3	559
9	Changes in neurotrophin responsiveness during the development of cerebellar granule neurons. <i>Neuron</i> , 1992, 9, 1041-1052.	3.8	233
10	Activation of basal forebrain cholinergic neurons differentially regulates brain-derived neurotrophic factor mRNA expression in different projection areas. <i>Neuroscience Letters</i> , 1992, 136, 203-208.	1.0	25
11	Molecular cloning of rat trkC and distribution of cells expressing messenger RNAs for members of the trk family in the rat central nervous system. <i>Neuroscience</i> , 1992, 51, 513-532.	1.1	584
12	BDNF mRNA expression in the developing rat brain following kainic acid-induced seizure activity. <i>Neuron</i> , 1992, 8, 1127-1138.	3.8	214
13	Cellular targets and trophic functions of neurotrophin-3 in the developing rat hippocampus. <i>Neuron</i> , 1992, 9, 643-656.	3.8	232
14	Brain-derived neurotrophic factor and neurotrophin-3 mRNAs are expressed in ventral midbrain regions containing dopaminergic neurons. <i>Molecular and Cellular Neurosciences</i> , 1992, 3, 56-63.	1.0	121
15	Developmental expression of brain derived neurotrophic factor mRNA by neurons of fetal and adult monkey prefrontal cortex. <i>Developmental Brain Research</i> , 1992, 70, 53-63.	2.1	68
16	Cells Expressing mRNA for Neurotrophins and their Receptors During Embryonic Rat Development. <i>European Journal of Neuroscience</i> , 1992, 4, 1140-1158.	1.2	479
17	Function and evolution in the NGF family and its receptors. <i>Journal of Neuroscience Research</i> , 1992, 32, 461-470.	1.3	332
18	Brain-derived neurotrophic factor selectively rescues mesencephalic dopaminergic neurons from 2,4,5-trihydroxyphenylalanine-induced injury. <i>Journal of Neuroscience Research</i> , 1993, 34, 478-487.	1.3	54
19	Localization of trkB mRNA in postnatal brain development. <i>Journal of Neuroscience Research</i> , 1993, 35, 468-479.	1.3	99

#	ARTICLE	IF	CITATIONS
20	Cellular Localization of Brain-derived Neurotrophic Factor and Neurotrophin-3 mRNA Expression in the Early Chicken Embryo. <i>European Journal of Neuroscience</i> , 1993, 5, 1-14.	1.2	83
21	Widespread and Developmentally Regulated Expression of Neurotrophin-4 mRNA in Rat Brain and Peripheral Tissues. <i>European Journal of Neuroscience</i> , 1993, 5, 605-613.	1.2	248
22	Neurotrophin production in the brain. <i>Seminars in Neuroscience</i> , 1993, 5, 227-237.	2.3	27
23	Multiple and interactive responses of central neurons to neurotrophic factors. <i>Seminars in Neuroscience</i> , 1993, 5, 259-267.	2.3	17
24	Functions and applications of neurotrophic molecules in the adult central nervous system. <i>Seminars in Neuroscience</i> , 1993, 5, 269-277.	2.3	11
25	Survival and neurite formation of mesencephalic trigeminal neurones of the rat in vitro. <i>Archives of Oral Biology</i> , 1993, 38, 547-557.	0.8	12
26	Multiple promoters direct tissue-specific expression of the rat BDNF gene. <i>Neuron</i> , 1993, 10, 475-489.	3.8	812
27	Time course, localization and pharmacological modulation of immediate early inducible genes, brain-derived neurotrophic factor and trkB messenger RNAs in the rat brain following photochemical stroke. <i>Neuroscience</i> , 1993, 55, 473-490.	1.1	166
28	The nature of the trophic action of brain-derived neurotrophic factor, des(1-3)-insulin-like growth FACTOR-1, and basic fibroblast growth factor on mesencephalic dopaminergic neurons developing in culture. <i>Neuroscience</i> , 1993, 52, 855-866.	1.1	178
29	Differential expression of brain-derived neurotrophic factor, neurotrophin-3, and low-affinity nerve growth factor receptor during the postnatal development of the rat cerebellar system. <i>Molecular Brain Research</i> , 1993, 17, 1-8.	2.5	170
30	NT-3 stimulates sympathetic neuroblast proliferation by promoting precursor survival. <i>Neuron</i> , 1993, 11, 1101-1111.	3.8	211
31	Ganglioside GM1 cooperates with brain-derived neurotrophic factor to protect dopaminergic neurons from 6-hydroxydopamine-induced degeneration. <i>Neuroscience Letters</i> , 1993, 159, 147-150.	1.0	36
32	Expression of members of the trk family in the developing postnatal rat brain. <i>Developmental Brain Research</i> , 1993, 72, 119-131.	2.1	171
33	Trophic actions of transforming growth factor β on mesencephalic dopaminergic neurons developing in culture. <i>Neuroscience</i> , 1993, 55, 903-918.	1.1	123
34	Visualization and Quantitation of Neurotrophin mRNAs. , 1993, , 57-106.		1
35	Chapter 2. Pharmacology of Neurotrophic Factors in Models of Neurodegenerative Disease. <i>Annual Reports in Medicinal Chemistry</i> , 1993, 28, 11-17.	0.5	3
36	Expression and regulation of neurotrophins and their receptors in hippocampal systems. <i>Hippocampus</i> , 1993, 3, 171-181.	0.9	13
37	Coexpression of mRNAs for NGF, BDNF, and NT-3 in the cardiovascular system of the pre- and postnatal rat. <i>Journal of Neuroscience</i> , 1993, 13, 875-893.	1.7	129

#	ARTICLE	IF	CITATIONS
38	Induction of noncatalytic TrkB neurotrophin receptors during axonal sprouting in the adult hippocampus. <i>Journal of Neuroscience</i> , 1993, 13, 4001-4014.	1.7	128
39	Overlapping and distinct actions of the neurotrophins BDNF, NT-3, and NT-4/5 on cultured dopaminergic and GABAergic neurons of the ventral mesencephalon. <i>Journal of Neuroscience</i> , 1994, 14, 335-347.	1.7	374
40	Intraventricular administration of BDNF increases neuropeptide expression in newborn rat brain. <i>Journal of Neuroscience</i> , 1994, 14, 3751-3765.	1.7	224
41	Activity-dependent and hormonal regulation of neurotrophin mRNA levels in brain-implications for neuronal plasticity. <i>Journal of Neurobiology</i> , 1994, 25, 1362-1372.	3.7	272
42	Dopaminergic neurons in rat ventral midbrain express brain-derived neurotrophic factor and neurotrophin-3 mRNAs. <i>Journal of Comparative Neurology</i> , 1994, 342, 321-334.	0.9	283
43	The response of human and rat fetal ventral mesencephalon in culture to the brain-derived neurotrophic factor treatment. <i>Brain Research</i> , 1994, 656, 147-156.	1.1	64
44	Neurotrophin-3 enhances sprouting of corticospinal tract during development and after adult spinal cord lesion. <i>Nature</i> , 1994, 367, 170-173.	13.7	889
45	Neurotrophin-4/5 Promotes Survival and Differentiation of Rat Striatal Neurons Developing in Culture. <i>European Journal of Neuroscience</i> , 1994, 6, 1669-1679.	1.2	91
46	Developmental regulation of brain-derived neurotrophic factor messenger RNAs transcribed from different promoters in the rat brain. <i>Neuroscience</i> , 1994, 60, 287-291.	1.1	94
47	Differential regulation of the expression of nerve growth factor, brain-derived neurotrophic factor and neurotrophin-3 mRNAs in adult rat brain after intrahippocampal injection of quinolinic acid. <i>Molecular Brain Research</i> , 1994, 26, 89-98.	2.5	39
48	Glucocorticoids and the expression of mRNAs for neurotrophins, their receptors and GAP-43 in the rat hippocampus. <i>Molecular Brain Research</i> , 1994, 26, 271-276.	2.5	93
49	Regulation of BDNF promoters in the rat hippocampus. <i>Neurochemistry International</i> , 1994, 25, 11-15.	1.9	35
50	Functions of brain-derived neurotrophic factor, insulin-like growth factor-I and basic fibroblast growth factor in the development and maintenance of dopaminergic neurons. <i>Progress in Neurobiology</i> , 1994, 44, 497-516.	2.8	57
51	NT-3 and BDNF protect CNS neurons against metabolic/excitotoxic insults. <i>Brain Research</i> , 1994, 640, 56-67.	1.1	385
52	Brain-derived neurotrophic factor and neurotrophin-4 increase neurotrophin-3 expression in the rat hippocampus. <i>International Journal of Developmental Neuroscience</i> , 1994, 12, 745-751.	0.7	46
53	Neurotrophic factors: from molecule to man. <i>Trends in Neurosciences</i> , 1994, 17, 182-190.	4.2	773
54	Santiago Ramón y Cajal and the Croonian Lecture, March 1894. <i>Trends in Neurosciences</i> , 1994, 17, 190-192.	4.2	26
55	Dopamine neoinnervation in the substantia nigra and hyperinnervation in the interpeduncular nucleus of adult rat following neonatal cerebroventricular administration of 6-hydroxydopamine. <i>Neuroscience</i> , 1994, 59, 77-87.	1.1	31

#	ARTICLE	IF	CITATIONS
56	bcl-2 Messenger RNA is localized in neurons of the developing and adult rat brain. <i>Neuroscience</i> , 1994, 61, 165-177.	1.1	96
57	BDNF in the development of the visual system of <i>Xenopus</i> . <i>Neuron</i> , 1994, 12, 747-761.	3.8	139
58	Growth factors in Parkinson's disease. <i>Progress in Growth Factor Research</i> , 1994, 5, 73-87.	1.7	59
59	Chapter 18 Induction of non-catalytic TrkB neurotrophin receptors during lesion-induced synaptic rearrangement in the adult rat hippocampus. <i>Progress in Brain Research</i> , 1995, 105, 197-210.	0.9	3
60	Brain-derived neurotrophic factor-transduced fibroblasts: Production of BDNF and effects of grafting to the adult rat brain. <i>Journal of Comparative Neurology</i> , 1995, 354, 361-376.	0.9	71
61	Synergistic Trophic Actions on Rat Basal Forebrain Neurons Revealed by a Synthetic NGF/BDNF Chimaeric Molecule. <i>European Journal of Neuroscience</i> , 1995, 7, 656-662.	1.2	18
62	BDNF Protein Measured by a Novel Enzyme Immunoassay in Normal Brain and after Seizure: Partial Disagreement with mRNA Levels. <i>European Journal of Neuroscience</i> , 1995, 7, 1527-1535.	1.2	312
63	Regulation of neuropeptide expression in the brain by neurotrophins. <i>Molecular Neurobiology</i> , 1995, 10, 135-149.	1.9	75
64	Ontogeny of neurotransmitter systems: Substrates for developmental disabilities?. <i>Mental Retardation and Developmental Disabilities Research Reviews</i> , 1995, 1, 151-168.	3.5	23
65	At least two mechanisms are involved in the death of retinal ganglion cells following target ablation in neonatal rats. <i>Journal of Neuroscience</i> , 1995, 15, 8143-8155.	1.7	126
66	Expression of Nerve Growth Factor, Brain-Derived Neurotrophic Factor and Neurotrophin-3 mRNAs in Human Cortical Xenografts. <i>Journal of Neural Transplantation & Plasticity</i> , 1995, 5, 257-264.	0.7	9
67	Expression of BDNF and trk B mRNAs in comparison to dopamine D1 and D2 receptor mRNAs and tyrosine hydroxylase-immunoreactivity in nigrostriatal in oculo co-grafts. <i>Developmental Brain Research</i> , 1995, 84, 215-224.	2.1	18
68	NGF and BDNF are differentially modulated by visual experience in the developing geniculocortical pathway. <i>Developmental Brain Research</i> , 1995, 86, 326-334.	2.1	138
69	Brain-derived neurotrophic factor messenger RNA is expressed in the septum, hypothalamus and in adrenergic brain stem nuclei of adult rat brain and is increased by osmotic stimulation in the paraventricular nucleus. <i>Neuroscience</i> , 1995, 64, 71-80.	1.1	151
70	Expression of brain-derived neurotrophic factor and of its functional receptor in neonatal and adult rat retina. <i>Neuroscience Letters</i> , 1995, 183, 96-99.	1.0	140
71	Comparison of neurotrophin regulation of human and rat neuropeptide Y (NPY) neurons: induction of NPY production in aggregate cultures derived from rat but not from human fetal brains. <i>Brain Research</i> , 1996, 732, 52-60.	1.1	22
72	Brain-derived neurotrophic factor, but not neurotrophin-3, prevents ischaemia-induced neuronal cell death in organotypic rat hippocampal slice cultures. <i>Neuroscience Letters</i> , 1996, 211, 203-206.	1.0	67
73	Intrastriatal and intraventricular infusion of brain-derived neurotrophic factor in the cynomolgous monkey: Distribution, retrograde transport and co-localization with substantia nigra dopamine-containing neurons. <i>Neuroscience</i> , 1996, 71, 179-191.	1.1	47

#	ARTICLE	IF	CITATIONS
74	COMPARATIVE STUDY OF BRAIN-DERIVED NEUROTROPHIC FACTOR MESSENGER RNA AND PROTEIN AT THE CELLULAR LEVEL SUGGESTS MULTIPLE ROLES IN HIPPOCAMPUS, STRIATUM AND CORTEX. <i>Neuroscience</i> , 1996, 74, 161-183.	1.1	129
75	Immunohistochemical localization of brain-derived neurotrophic factor in adult rat brain. <i>Neuroscience</i> , 1996, 74, 1209-1226.	1.1	115
76	BDNF Enhances the Functional Reinnervation of the Striatum by Grafted Fetal Dopamine Neurons. <i>Experimental Neurology</i> , 1996, 137, 105-118.	2.0	131
77	Autocrine BDNF Secretion Enhances the Survival and Serotonergic Differentiation of Raphe Neuronal Precursor Cells Grafted into the Adult Rat CNS. <i>Experimental Neurology</i> , 1996, 140, 105-114.	2.0	99
78	Unilateral Neonatal Hippocampal Lesion Alters Septal Innervation and Trophism of the Entorhinal Cortex. <i>Experimental Neurology</i> , 1996, 141, 130-140.	2.0	14
79	Effects of Donor Age and Brain-Derived Neurotrophic Factor on the Survival of Dopaminergic Neurons and Axonal Growth in Postnatal Rat Nigrostriatal Cocultures. <i>Experimental Neurology</i> , 1996, 142, 340-350.	2.0	28
80	Brain-derived neurotrophic factor. , 1996, , 203-217.		0
81	Changing Patterns of Expression and Subcellular Localization of TrkB in the Developing Visual System. <i>Journal of Neuroscience</i> , 1996, 16, 7965-7980.	1.7	99
82	Differential Survival of Cajalâ€™Retzius Cells in Organotypic Cultures of Hippocampus and Neocortex. <i>Journal of Neuroscience</i> , 1996, 16, 6896-6907.	1.7	126
83	NGF prevents the changes induced by monocular deprivation during the critical period in rats. <i>Brain Research</i> , 1996, 706, 318-322.	1.1	12
84	The BDNF content of postnatal and adult rat brain: the effects of 6-hydroxydopamine lesions in adult brain. <i>Developmental Brain Research</i> , 1996, 97, 297-303.	2.1	58
85	Development of striatal dopaminergic function. III: Pre- and postnatal development of striatal and cortical mRNAs for the neurotrophin receptors trkBTK+ and trkC and their regulation by synaptic dopamine. <i>Developmental Brain Research</i> , 1996, 94, 133-143.	2.1	25
86	Regulation of synaptic responses to high-frequency stimulation and LTP by neurotrophins in the hippocampus. <i>Nature</i> , 1996, 381, 706-709.	13.7	1,062
87	Role of Neurotrophins in Synapse Development and Plasticity. <i>Reviews in the Neurosciences</i> , 1997, 8, 1-12.	1.4	220
88	Ginsenoside Rb1 regulates ChAT, NGF and trkA mRNA expression in the rat brain. <i>Molecular Brain Research</i> , 1997, 47, 177-182.	2.5	104
89	Expression of brain-derived neurotrophic factor protein in the adult rat central nervous system. <i>Neuroscience</i> , 1997, 78, 431-448.	1.1	473
90	Brain-derived neurotrophic factor regulates maturation of the DARPP-32 phenotype in striatal medium spiny neurons: studies in vivo and in vitro. <i>Neuroscience</i> , 1997, 79, 509-516.	1.1	71
91	Brain-derived neurotrophic factor-like immunoreactivity in the adult rat central nervous system predominantly distributed in neurons with substantial amounts of brain-derived neurotrophic factor messenger RNA or responsiveness to brain-derived neurotrophic factor. <i>Neuroscience</i> , 1997, 82, 653-670.	1.1	50

#	ARTICLE	IF	CITATIONS
92	Endogenous FGF-2 Is Important for Cholinergic Sprouting in the Denervated Hippocampus. <i>Journal of Neuroscience</i> , 1997, 17, 2499-2511.	1.7	78
93	Axonal Transport Blockade in the Neonatal Rat Optic Nerve Induces Limited Retinal Ganglion Cell Death. <i>Journal of Neuroscience</i> , 1997, 17, 7045-7052.	1.7	25
94	TrkB Signaling Is Required for Postnatal Survival of CNS Neurons and Protects Hippocampal and Motor Neurons from Axotomy-Induced Cell Death. <i>Journal of Neuroscience</i> , 1997, 17, 3623-3633.	1.7	182
95	Influence of BDNF on the expression of the dopaminergic phenotype of tissue used for brain transplants. <i>Developmental Brain Research</i> , 1997, 100, 43-51.	2.1	38
96	Granule cell mRNA levels for BDNF, NGF, and NT-3 correlate with neuron losses or supragranular mossy fiber sprouting in the chronically damaged and epileptic human hippocampus. <i>Molecular and Chemical Neuropathology</i> , 1997, 30, 53-76.	1.0	88
97	Recent progress in studies of neurotrophic factors and their clinical implications. <i>Journal of Molecular Medicine</i> , 1997, 75, 637-644.	1.7	37
98	Brain-derived neurotrophic factor modulates GAP-43 but not τ 1 expression in injured retinal ganglion cells of adult rats. , 1997, 47, 561-572.		59
99	The effects of central administration of neurotrophins or transplants of fetal tectal tissue on retinal ganglion cell survival following removal of the superior colliculus in neonatal rats. <i>Developmental Brain Research</i> , 1998, 107, 133-142.	2.1	21
100	BDNF and TrkB expression in intrastriatal ventral mesencephalic grafts in a rat model of Parkinson's disease. <i>Journal of Neural Transmission</i> , 1998, 105, 253-263.	1.4	9
101	Effect of chronic restraint stress and tianeptine on growth factors, growth-associated protein-43 and microtubule-associated protein 2 mRNA expression in the rat hippocampus. <i>Molecular Brain Research</i> , 1998, 59, 35-39.	2.5	111
102	Simultaneous expression of brain-derived neurotrophic factor and neurotrophin-3 in Cajal-Retzius, subplate and ventricular progenitor cells during early development stages of the rat cerebral cortex. <i>Neuroscience</i> , 1998, 84, 115-127.	1.1	74
103	Distribution of the neurotrophins brain-derived neurotrophic factor, neurotrophin-3, and neurotrophin-4/5 in the postnatal rat brain: an immunocytochemical study. <i>Neuroscience</i> , 1998, 84, 101-114.	1.1	120
104	BDNF Regulates Reelin Expression and Cajal-Retzius Cell Development in the Cerebral Cortex. <i>Neuron</i> , 1998, 21, 305-315.	3.8	151
105	Anterograde Transport of Neurotrophin Proteins in the CNS - A Reassessment of the Neurotrophic Hypothesis. <i>Reviews in the Neurosciences</i> , 1998, 9, 91-103.	1.4	55
106	Adrenal Steroid Regulation of Neurotrophic Factor Expression in the Rat Hippocampus. <i>Endocrinology</i> , 1998, 139, 3112-3118.	1.4	104
107	Impairments in High-Frequency Transmission, Synaptic Vesicle Docking, and Synaptic Protein Distribution in the Hippocampus of BDNF Knockout Mice. <i>Journal of Neuroscience</i> , 1999, 19, 4972-4983.	1.7	426
108	Brain-Derived Neurotrophic Factor and Neurotrophin-3 Enhance Somatostatin Gene Expression through a Likely Direct Effect on Hypothalamic Somatostatin Neurons*. <i>Endocrinology</i> , 1999, 140, 909-916.	1.4	33
109	BDNF and NT4/5 promote survival and neurite outgrowth of pontocerebellar mossy fiber neurons. <i>Journal of Neurobiology</i> , 1999, 40, 254-269.	3.7	39

#	ARTICLE	IF	CITATIONS
110	Neurotrophins and hippocampal synaptic transmission and plasticity. <i>Journal of Neuroscience Research</i> , 1999, 58, 76-87.	1.3	223
111	Heritability of BDNF alleles and their effect on brain morphology in schizophrenia. , 1999, 88, 724-728.		79
112	Therapeutic Potential of Nerve Growth Factors in Parkinson's Disease. <i>Drugs and Aging</i> , 1999, 14, 261-287.	1.3	74
113	Expression of brain-derived neurotrophic factor in catecholaminergic neurons of the rat lower brainstem after colchicine treatment or hemorrhage. <i>Neuroscience</i> , 1999, 92, 901-909.	1.1	8
114	Expression of the Striatal DARPP-32/ARPP-21 Phenotype in GABAergic Neurons Requires Neurotrophins <i>In Vivo</i> and <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 1999, 19, 5409-5419.	1.7	141
115	Brain-Derived Neurotrophic Factor But Not Neurotrophin-3 Enhances Differentiation of Somatostatin Neurons in Hypothalamic Cultures. <i>Neuroendocrinology</i> , 2000, 72, 144-153.	1.2	26
116	Differential expression of neurotrophin and neurotrophin receptor mRNAs in and adjacent to fetal midbrain grafts implanted into the dopamine-denervated striatum. <i>Journal of Comparative Neurology</i> , 2000, 423, 462-473.	0.9	8
117	Axonal regeneration of retinal ganglion cells: effect of trophic factors. <i>Progress in Retinal and Eye Research</i> , 2000, 19, 559-575.	7.3	52
118	Underexpression of neural cell adhesion molecule and neurotrophic factors in rat brain following thromboxane A2-induced intrauterine growth retardation. <i>Early Human Development</i> , 2000, 58, 101-110.	0.8	15
119	Development of full-length Trk B-immunoreactive structures in the prefrontal and visual cortices of the macaque monkey. <i>Anatomy and Embryology</i> , 2000, 201, 139-147.	1.5	19
120	Modulation of hippocampal synaptic transmission and plasticity by neurotrophins. <i>Progress in Brain Research</i> , 2000, 128, 231-241.	0.9	139
121	Postmortem studies in mood disorders indicate altered numbers of neurons and glial cells. <i>Biological Psychiatry</i> , 2000, 48, 766-777.	0.7	750
122	Influence of Time in Culture and BDNF Pretreatment on Survival and Function of Grafted Embryonic Rat Ventral Mesencephalon in the 6-OHDA Rat Model of Parkinson's Disease. <i>Experimental Neurology</i> , 2001, 167, 148-157.	2.0	23
123	Brain-derived neurotrophic factor in the control human brain, and in Alzheimer's disease and Parkinson's disease. <i>Progress in Neurobiology</i> , 2001, 63, 71-124.	2.8	760
124	Developmental changes in BDNF protein levels in the hamster retina and superior colliculus. <i>Journal of Neurobiology</i> , 2001, 49, 173-187.	3.7	32
125	Ontogeny of brain-derived neurotrophic factor gene expression in the forebrain of prairie and montane voles. <i>Developmental Brain Research</i> , 2001, 127, 51-61.	2.1	11
126	The Neurotrophins NT3 and BDNF Induce Selective Specification of Neuropeptide Coexpression and Neuronal Connectivity in Arcuate and Periventricular Hypothalamic Neurons <i>in vitro</i> . <i>Neuroendocrinology</i> , 2002, 75, 55-69.	1.2	6
127	Rat retinal ganglion cells co-express brain derived neurotrophic factor (BDNF) and its receptor TrkB. <i>Vision Research</i> , 2002, 42, 151-157.	0.7	91

#	ARTICLE	IF	CITATIONS
128	Postsynaptic Action of BDNF on GABAergic Synaptic Transmission in the Superficial Layers of the Mouse Superior Colliculus. <i>Journal of Neurophysiology</i> , 2002, 88, 595-603.	0.9	83
129	Embryonic ventral mesencephalic grafts to the substantia nigra of MPTP-treated monkeys: Feasibility relevant to multiple-target grafting as a therapy for Parkinson's disease. <i>Journal of Comparative Neurology</i> , 2002, 442, 320-330.	0.9	41
130	Distribution of brain-derived neurotrophic factor and TrkB receptor proteins in the fetal and postnatal hippocampus and cerebellum of the guinea pig. <i>Journal of Comparative Neurology</i> , 2002, 454, 229-240.	0.9	33
131	Cell pathology in bipolar disorder. <i>Bipolar Disorders</i> , 2002, 4, 105-116.	1.1	169
132	The Effect of Chlorpyrifos and Chlorpyrifos-Oxon on Brain Cholinesterase, Muscarinic Receptor Binding, and Neurotrophin Levels in Rats Following Early Postnatal Exposure. <i>Toxicological Sciences</i> , 2003, 77, 63-71.	1.4	64
133	Neurotrophic effects of BDNF on embryonic gonadotropin-releasing hormone (GnRH) neurons. <i>European Journal of Neuroscience</i> , 2004, 20, 338-344.	1.2	27
134	Factors promoting survival of mesencephalic dopaminergic neurons. <i>Cell and Tissue Research</i> , 2004, 318, 73-80.	1.5	59
135	Differential regulation of multiple brain-derived neurotrophic factor transcripts in the postnatal and adult rat hippocampus during development, and in response to kainate administration. <i>Molecular Brain Research</i> , 2004, 130, 170-177.	2.5	38
136	Neurotrophic factors in Huntington's disease. <i>Progress in Brain Research</i> , 2004, 146, 197-229.	0.9	67
137	Developmental Expression of Neurotrophins and Their Receptors in Postnatal Rat Ventral Midbrain. <i>Journal of Molecular Neuroscience</i> , 2005, 27, 245-260.	1.1	24
138	Striatal trophic factor activity in aging monkeys with unilateral MPTP-induced parkinsonism. <i>Experimental Neurology</i> , 2005, 191, S60-S67.	2.0	72
139	A β -deficient environment in prenatal life may compromise systems important for cognitive function by affecting BDNF in the hippocampus. <i>Experimental Neurology</i> , 2005, 192, 235-243.	2.0	38
140	Transplantation of Cryopreserved Human Bone Marrow-derived Multipotent Adult Progenitor Cells for Neonatal Hypoxic-Ischemic Injury: Targeting the Hippocampus. <i>Reviews in the Neurosciences</i> , 2006, 17, 215-25.	1.4	30
141	Incorporation of embryonic CA3 cell grafts into the adult hippocampus at 4-months after injury: Effects of combined neurotrophic supplementation and caspase inhibition. <i>Neuroscience</i> , 2006, 139, 1369-1383.	1.1	34
142	Lasting effects of pediatric traumatic brain injury. <i>Indian Journal of Neurotrauma</i> , 2006, 3, 19-26.	0.3	15
143	Behavioral and Histological Characterization of Intrahippocampal Grafts of Human Bone Marrow-Derived Multipotent Progenitor Cells in Neonatal Rats with Hypoxic-Ischemic Injury. <i>Cell Transplantation</i> , 2006, 15, 231-238.	1.2	87
144	Corticosterone Actions on the Hippocampal Brain-Derived Neurotrophic Factor Expression are Mediated by Exon IV Promoter. <i>Journal of Neuroendocrinology</i> , 2006, 18, 104-114.	1.2	88
145	Novel role for aspartoacylase in regulation of BDNF and timing of postnatal oligodendrogenesis. <i>Journal of Neuroscience Research</i> , 2006, 84, 151-169.	1.3	17

#	ARTICLE	IF	CITATIONS
146	THE DOPAMINERGIC NIGROSTRIATAL SYSTEM AND PARKINSON'S DISEASE. <i>Neurosurgery</i> , 2007, 60, 17-30.	0.6	57
147	Role of brain-derived neurotrophic factor in Huntington's disease. <i>Progress in Neurobiology</i> , 2007, 81, 294-330.	2.8	486
148	Expression of brain-derived neurotrophic factor in the rat forebrain and upper brain stem during postnatal development: An immunohistochemical study. <i>Neuroscience</i> , 2007, 146, 1128-1136.	1.1	11
149	BDNF induction with mild exercise in the rat hippocampus. <i>Biochemical and Biophysical Research Communications</i> , 2007, 358, 961-967.	1.0	237
150	Strategies for promoting anti-seizure effects of hippocampal fetal cells grafted into the hippocampus of rats exhibiting chronic temporal lobe epilepsy. <i>Neurobiology of Disease</i> , 2007, 27, 117-132.	2.1	63
151	Opposite Regulation of Calbindin and Calretinin Expression by Brain-Derived Neurotrophic Factor in Cortical Neurons. <i>Journal of Neurochemistry</i> , 2008, 74, 1870-1877.	2.1	45
152	Brain-Derived Neurotrophic Factor Levels in the Nervous System of Wild-Type and Neurotrophin Gene Mutant Mice. <i>Journal of Neurochemistry</i> , 2008, 72, 1930-1938.	2.1	119
153	Grafting of striatal precursor cells into hippocampus shortly after status epilepticus restrains chronic temporal lobe epilepsy. <i>Experimental Neurology</i> , 2008, 212, 468-481.	2.0	80
155	Brain-Derived Neurotrophic Factor mRNA Expression in the Brain of the Teleost Fish, <i>Anguilla anguilla</i> , and the European Eel. <i>Brain, Behavior and Evolution</i> , 2009, 73, 43-58.	0.9	15
156	Progesterone, BDNF and Neuroprotection in the Injured CNS. <i>International Journal of Neuroscience</i> , 2009, 119, 1718-1740.	0.8	20
157	Natural and lesion-induced apoptosis in the rat striatum during development. <i>Brain Research</i> , 2009, 1252, 30-44.	1.1	10
158	Voluntary exercise and caloric restriction enhance hippocampal dendritic spine density and BDNF levels in diabetic mice. <i>Hippocampus</i> , 2009, 19, 951-961.	0.9	292
159	TrkB signalling pathways in LTP and learning. <i>Nature Reviews Neuroscience</i> , 2009, 10, 850-860.	4.9	890
160	Prenatal immune challenge induces developmental changes in the morphology of pyramidal neurons of the prefrontal cortex and hippocampus in rats. <i>Schizophrenia Research</i> , 2009, 107, 99-109.	1.1	102
161	Diabetes, Insulin and Alzheimer's Disease. <i>Research and Perspectives in Alzheimer's Disease</i> , 2010, , .	0.1	7
162	Stress Hormones and Neuroplasticity in the Diabetic Brain. <i>Research and Perspectives in Alzheimer's Disease</i> , 2010, , 57-71.	0.1	1
163	Developmental thyroid hormone insufficiency reduces expression of brain-derived neurotrophic factor (BDNF) in adults but not in neonates. <i>Neurotoxicology and Teratology</i> , 2011, 33, 464-472.	1.2	52
164	Time-Course of Changes in Phosphorylated CREB in Neuroblasts and BDNF in the Mouse Dentate Gyrus at Early Postnatal Stages. <i>Cellular and Molecular Neurobiology</i> , 2011, 31, 669-674.	1.7	18

#	ARTICLE	IF	CITATIONS
165	In vitro functionality of isolated embryonic hypothalamic vasopressinergic and oxytocinergic neurons: modulatory effects of brain-derived neurotrophic factor and angiotensin II. <i>Endocrine</i> , 2011, 39, 83-88.	1.1	8
166	The interrelationship between BDNF and its precursor and the level of active caspase-3 in the brain regions of neonatal rats. <i>Neurochemical Journal</i> , 2012, 6, 260-264.	0.2	7
167	Vascular Endothelial Growth Factor and Other Angiogenic Factors. <i>International Review of Neurobiology</i> , 2012, 102, 317-346.	0.9	27
168	Ghrelin, neuropeptide Y, and other feeding-regulatory peptides active in the hippocampus: role in learning and memory. <i>Nutrition Reviews</i> , 2013, 71, 541-561.	2.6	64
169	Combined prenatal and postnatal butyl paraben exposure produces autism-like symptoms in offspring: Comparison with valproic acid autistic model. <i>Pharmacology Biochemistry and Behavior</i> , 2013, 111, 102-110.	1.3	56
170	Alterations of neocortical development and maturation in autism: Insight from valproic acid exposure and animal models of autism. <i>Neurotoxicology and Teratology</i> , 2013, 36, 57-66.	1.2	45
171	Sex differences and the role of estrogen in animal models of schizophrenia: Interaction with BDNF. <i>Neuroscience</i> , 2013, 239, 67-83.	1.1	85
172	BDNF and the central control of feeding: accidental bystander or essential player?. <i>Trends in Neurosciences</i> , 2013, 36, 83-90.	4.2	120
173	Alterations of GABAergic and dopaminergic systems in mutant mice with disruption of exons 2 and 3 of the <i>Disc1</i> gene. <i>Neurochemistry International</i> , 2014, 74, 74-83.	1.9	37
175	Neurotrophins: Transcription and Translation. <i>Handbook of Experimental Pharmacology</i> , 2014, 220, 67-100.	0.9	90
176	Primate adult brain cell autotransplantation produces behavioral and biological recovery in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced parkinsonian St. Kitts monkeys. <i>Journal of Comparative Neurology</i> , 2014, 522, 2729-2740.	0.9	16
177	Developmental and degenerative modulation of brain-derived neurotrophic factor transcript variants in the mouse hippocampus. <i>International Journal of Developmental Neuroscience</i> , 2014, 38, 68-73.	0.7	20
178	Repetitive mild traumatic brain injury induces ventriculomegaly and cortical thinning in juvenile rats. <i>Journal of Neurophysiology</i> , 2015, 113, 3268-3280.	0.9	52
179	Traumatic Brain Injury Induces Rapid Enhancement of Cortical Excitability in Juvenile Rats. <i>CNS Neuroscience and Therapeutics</i> , 2015, 21, 193-203.	1.9	24
180	Neuroprotective Effect of Magnesium Acetyltaurate Against NMDA-Induced Excitotoxicity in Rat Retina. <i>Neurotoxicity Research</i> , 2017, 31, 31-45.	1.3	51
181	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
182	Exercise as a therapeutic intervention for motor and non-motor symptoms in Parkinson's disease: Evidence from rodent models. <i>Progress in Neurobiology</i> , 2019, 172, 2-22.	2.8	29
183	BDNF provides many routes toward STN DBS-mediated disease modification. <i>Movement Disorders</i> , 2019, 34, 22-34.	2.2	20

#	ARTICLE	IF	CITATIONS
184	Enhancing cognition through pharmacological and environmental interventions: Examples from preclinical models of neurodevelopmental disorders. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 110, 28-45.	2.9	14
185	Synucleinopathy-associated pathogenesis in Parkinson's disease and the potential for brain-derived neurotrophic factor. <i>Npj Parkinson's Disease</i> , 2021, 7, 35.	2.5	26
186	Sex Differences in Neurophysiological Changes Following Voluntary Exercise in Adolescent Rats. <i>Frontiers in Neurology</i> , 2021, 12, 685822.	1.1	5
187	Directly Reprogrammed Huntington's Disease Neural Precursor Cells Generate Striatal Neurons Exhibiting Aggregates and Impaired Neuronal Maturation. <i>Stem Cells</i> , 2021, 39, 1410-1422.	1.4	10
188	A Tale of Two Genes: Reelin and BDNF. , 2008, , 237-250.		1
189	Quantitative Cytoarchitectonic Findings in Postmortem Brain Tissue from Mood Disorder Patients. <i>Neurobiological Foundation of Aberrant Behaviors</i> , 2002, , 291-324.	0.2	1
190	Neurotrophic Factors: Versatile Signals for Cell-Cell Communication in the Nervous System. <i>Results and Problems in Cell Differentiation</i> , 2000, 30, 163-188.	0.2	1
191	Neurotrophins and their Receptors. <i>Research and Perspectives in Neurosciences</i> , 1992, , 180-200.	0.4	3
192	Thalamus, Neurotrophins and their Receptors. , 1993, , 309-320.		2
193	Growth Factors Involved in the Development, Maturation and Neuroplasticity of Midbrain Dopamine Neurons. , 1994, , 203-216.		1
194	Sexual motivation in male rats is modulated by tropomyosin receptor kinase B (TrkB).. <i>Behavioral Neuroscience</i> , 2019, 133, 32-38.	0.6	3
195	Neurotrophin-4 is a target-derived neurotrophic factor for neurons of the trigeminal ganglion. <i>Development (Cambridge)</i> , 1993, 117, 1345-1353.	1.2	92
196	Distribution of Brain-Derived Neurotrophic Factor (BDNF) Protein and mRNA in the Normal Adult Rat CNS: Evidence for Anterograde Axonal Transport. <i>Journal of Neuroscience</i> , 1997, 17, 2295-2313.	1.7	985
197	Epidemiology and treatment outcome of head injury in children: A prospective study. <i>Journal of Pediatric Neurosciences</i> , 2014, 9, 237.	0.2	18
198	Neurotrophins and neurodegenerative diseases. , 1993, , 149-160.		3
199	Target-Specific Outgrowth from Grafted Dopaminergic Neurons. , 1994, , 567-579.		0
200	Expression, Regulation and Receptor Distribution of Neurotrophins in the Mammalian Central Nervous System. , 1994, , 123-150.		0
201	Neurotrophins and TRK Receptors in Hippocampal Development. , 1995, , 145-170.		0

#	ARTICLE	IF	CITATIONS
203	Therapeutic Use of Neurotrophic Factors. , 1995, , 379-390.		0
204	Molecular Determinants of Neurotrophin Actions in the Brain. , 1995, , 297-312.		1
205	Structure and Regulation of BDNF and NT-4 Genes. , 1995, , 235-260.		1
206	Epidemiological and clinico-radiological evaluation of head injury in pediatric population. Journal of Pediatric Neurosciences, 2020, 15, 386.	0.2	3
207	Optic nerve hypoplasia in the fetal alcohol syndrome: a mouse model. Journal of Anatomy, 1995, 186 (Pt) Tj ETQq0,0 rgBT (Overlock	0.9	12
209	Brain-derived neurotrophic factor overexpression in taste buds diminishes chemotherapy induced taste loss. European Journal of Neuroscience, 2022, 56, 4967-4982.	1.2	1