

# Integrin Subunit Gene Expression Is Regionally Different

Journal of Neuroscience

19, 1541-1556

DOI: [10.1523/jneurosci.19-05-01541.1999](https://doi.org/10.1523/jneurosci.19-05-01541.1999)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The polo-like protein kinases Fnk and Snk associate with a Ca <sup>2+</sup> - and integrin-binding protein and are regulated dynamically with synaptic plasticity. EMBO Journal, 1999, 18, 5528-5539.	3.5	200
2	Tropism of AAV-2 vectors for neurons of the globus pallidus. NeuroReport, 2000, 11, 2277-2283.	0.6	38
3	Integrin-type signaling has a distinct influence on NMDA-induced cytoskeletal disassembly. , 2000, 59, 827-832.		27
4	Expression of a synapse-associated membrane protein, P84/SHPS-1, and its ligand, IAP/CD47, in mouse retina. , 2000, 416, 335-344.		61
5	Regulation of laminin-associated integrin subunit mRNAs in rat spinal motoneurons during postnatal development and after axonal injury. Journal of Comparative Neurology, 2000, 428, 294-304.	0.9	43
6	Induction of integrin-associated protein (IAP) mRNA expression during memory consolidation in rat hippocampus. European Journal of Neuroscience, 2000, 12, 1105-1112.	1.2	25
7	Active Zones on Motor Nerve Terminals Contain $\beta$ 1 Integrin. Journal of Neuroscience, 2000, 20, 4912-4921.	1.7	48
8	Regulation of Neurite Outgrowth by Integrin Activation. Journal of Neuroscience, 2000, 20, 6551-6560.	1.7	129
9	Integrin-Mediated Regulation of Synaptic Morphology, Transmission, and Plasticity. Journal of Neuroscience, 2000, 20, 6868-6878.	1.7	118
10	In Vivo Transduction of Cerebellar Purkinje Cells Using Adeno-Associated Virus Vectors. Molecular Therapy, 2000, 2, 446-457.	3.7	46
12	Novel Roles for Integrins in the Nervous System. Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications, 2000, 3, 1-7.	1.7	25
13	Metalloprotease-Disintegrin (ADAM) Genes Are Widely and Differentially Expressed in the Adult CNS. Molecular and Cellular Neurosciences, 2000, 15, 547-560.	1.0	115
14	Extracellular matrix and the brain: components and function. Journal of Clinical Neuroscience, 2000, 7, 280-290.	0.8	235
15	Effects of environmental enrichment on gene expression in the brain. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 12880-12884.	3.3	550
16	Chemokines and chemokine receptors in the pathogenesis of multiple sclerosis. Multiple Sclerosis Journal, 2000, 6, 3-13.	1.4	71
17	Adhesive Events in Retinal Development and Function: The Role of Integrin Receptors. Results and Problems in Cell Differentiation, 2000, 31, 141-156.	0.2	26
18	Dendritic Spine Hypoplasticity and Downregulation of Reelin and GABAergic Tone in Schizophrenia Vulnerability. Neurobiology of Disease, 2001, 8, 723-742.	2.1	188
19	Evidence that integrins contribute to multiple stages in the consolidation of long term potentiation in rat hippocampus. Neuroscience, 2001, 105, 815-829.	1.1	103

#	ARTICLE	IF	CITATIONS
20	Dentate hilar mossy cells and somatostatin-containing neurons are immunoreactive for the $\alpha 8$ integrin subunit: characterization in normal and kainic acid-treated rats. <i>Neuroscience</i> , 2001, 105, 619-638.	1.1	22
21	$\alpha 1$ -Class Integrins Regulate the Development of Laminae and Folia in the Cerebral and Cerebellar Cortex. <i>Neuron</i> , 2001, 31, 367-379.	3.8	523
22	Adult Neuronal Regeneration Induced by Transgenic Integrin Expression. <i>Journal of Neuroscience</i> , 2001, 21, 4782-4788.	1.7	154
23	Plasma Membrane Ganglioside Sialidase Regulates Axonal Growth and Regeneration in Hippocampal Neurons in Culture. <i>Journal of Neuroscience</i> , 2001, 21, 8387-8395.	1.7	130
24	The molecular neurobiology of stress – evidence from genetic and epigenetic models. <i>Behavioural Pharmacology</i> , 2001, 12, 381-427.	0.8	31
25	Localization of alpha integrin subunits in the neural retina of the tiger salamander. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2001, 239, 278-287.	1.0	12
26	Expression of osteopontin mRNA in developing rat brainstem and cerebellum. <i>Cell and Tissue Research</i> , 2001, 306, 179-185.	1.5	37
27	Novel proteoglycan epitope expressed in functionally discrete patterns in primate cortical and subcortical regions. <i>Journal of Comparative Neurology</i> , 2001, 430, 369-388.	0.9	24
28	Polarized distribution of $\alpha 5$ integrin in dendrites of hippocampal and cortical neurons. <i>Journal of Comparative Neurology</i> , 2001, 435, 184-193.	0.9	75
29	Immunohistochemical expression of the alpha5 integrin subunit in the normal adult rat central nervous system. <i>Journal of Neurocytology</i> , 2001, 30, 243-252.	1.6	29
30	Quantitative comparison of expression with adeno-associated virus (AAV-2) brain-specific gene cassettes. <i>Gene Therapy</i> , 2001, 8, 1323-1332.	2.3	167
31	Integrins mediate functional pre- and postsynaptic maturation at a hippocampal synapse. <i>Nature</i> , 2001, 411, 317-321.	13.7	297
32	Hypertonic enhancement of transmitter release from frog motor nerve terminals: $Ca^{2+}$ independence and role of integrins. <i>Journal of Physiology</i> , 2001, 530, 243-252.	1.3	44
33	The Integrin $\alpha 7$ Cytoplasmic Domain Regulates Cell Migration, Lamellipodia Formation, and p130CAS/Crk Coupling. <i>Journal of Biological Chemistry</i> , 2001, 276, 13417-13426.	1.6	28
34	Endothelial Cell Laminin Isoforms, Laminins 8 and 10, Play Decisive Roles in T Cell Recruitment across the Blood-Brain Barrier in Experimental Autoimmune Encephalomyelitis. <i>Journal of Cell Biology</i> , 2001, 153, 933-946.	2.3	458
35	Activity-Dependent Plasticity in the Adult Auditory Brainstem. <i>Audiology and Neuro-Otology</i> , 2001, 6, 319-345.	0.6	54
36	Extracellular matrix in spinal cord regeneration: getting beyond attraction and inhibition. <i>NeuroReport</i> , 2002, 13, A37-A48.	0.6	47
37	Alpha3 integrin receptors contribute to the consolidation of long-term potentiation. <i>Neuroscience</i> , 2002, 110, 29-39.	1.1	85

#	ARTICLE	IF	CITATIONS
38	Developmental regulation and neuronal expression of the cellular disintegrin ADAM11 gene in mouse nervous system. <i>Neuroscience</i> , 2002, 112, 921-934.	1.1	27
39	Uptake and pathogenic effects of amyloid beta peptide 1-42 are enhanced by integrin antagonists and blocked by NMDA receptor antagonists. <i>Neuroscience</i> , 2002, 112, 827-840.	1.1	98
40	Basal forebrain cholinergic cell attachment and neurite outgrowth on organotypic slice cultures of hippocampal formation. <i>Neuroscience</i> , 2002, 115, 815-827.	1.1	7
41	Brain-derived neurotrophic factor applied to the motor cortex promotes sprouting of corticospinal fibers but not regeneration into a peripheral nerve transplant. <i>Journal of Neuroscience Research</i> , 2002, 69, 160-168.	1.3	84
42	The integrin family of cell adhesion molecules has multiple functions within the CNS. <i>Journal of Neuroscience Research</i> , 2002, 69, 286-291.	1.3	200
43	Functional Peptide Sequences Derived from Extracellular Matrix Glycoproteins and Their Receptors: Strategies to Improve Neuronal Regeneration. <i>Molecular Neurobiology</i> , 2003, 27, 177-196.	1.9	51
44	Pain and the blood-brain barrier: obstacles to drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2003, 55, 987-1006.	6.6	56
45	Integrins are involved in synaptogenesis, cell spreading, and adhesion in the postnatal brain. <i>Developmental Brain Research</i> , 2003, 140, 185-194.	2.1	33
46	Essential role for integrin linked kinase in Akt-mediated integrin survival signaling in hippocampal neurons. <i>Journal of Neurochemistry</i> , 2003, 84, 878-890.	2.1	87
47	Some assembly required: the development of neuronal synapses. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 833-841.	16.1	168
48	Extracellular matrix molecules and synaptic plasticity. <i>Nature Reviews Neuroscience</i> , 2003, 4, 456-468.	4.9	459
49	$\alpha 6 \beta 1$ integrin directs migration of neuronal precursors in adult mouse forebrain. <i>Experimental Neurology</i> , 2003, 183, 273-285.	2.0	95
50	Pax6 regulates regional development and neuronal migration in the cerebral cortex. <i>Developmental Biology</i> , 2003, 255, 151-163.	0.9	58
51	Integrin $\alpha v$ and NCAM mediate the effects of GDNF on DA neuron survival, outgrowth, DA turnover and motor activity in rats. <i>Neurobiology of Aging</i> , 2003, 24, 105-116.	1.5	65
52	Changes in hippocampal gene expression after neuroprotective activation of group I metabotropic glutamate receptors. <i>Molecular Brain Research</i> , 2003, 117, 196-205.	2.5	22
53	Laminin chain expression suggests that laminin-10 is a major isoform in the mouse hippocampus and is degraded by the tissue plasminogen activator/plasmin protease cascade during excitotoxic injury. <i>Neuroscience</i> , 2003, 116, 359-371.	1.1	84
54	Developmental and regional differences in the consolidation of long-term potentiation. <i>Neuroscience</i> , 2003, 118, 387-398.	1.1	73
55	Integrins regulate neuronal neurotrophin gene expression through effects on voltage-sensitive calcium channels. <i>Neuroscience</i> , 2003, 118, 925-940.	1.1	34

#	ARTICLE	IF	CITATIONS
56	Connective tissue growth factor: a novel marker of layer vii neurons in the rat cerebral cortex. <i>Neuroscience</i> , 2003, 119, 43-52.	1.1	86
57	Involvement of $\alpha 3 \beta 1$ integrin in the conditioning-lesion effect on sensory axon regeneration. <i>Molecular and Cellular Neurosciences</i> , 2003, 22, 383-395.	1.0	51
58	Nonviral Gene Delivery to the Central Nervous System Based on a Novel Integrin-Targeting Multifunctional Protein. <i>Human Gene Therapy</i> , 2003, 14, 1215-1223.	1.4	23
59	Integrins Modulate Fast Excitatory Transmission at Hippocampal Synapses. <i>Journal of Biological Chemistry</i> , 2003, 278, 10722-10730.	1.6	63
60	Role of Integrins in the Development of the Cerebral Cortex. <i>Cerebral Cortex</i> , 2003, 13, 219-224.	1.6	117
61	Virus Vectors for use in the Central Nervous System. <i>International Review of Neurobiology</i> , 2003, 55, 65-98.	0.9	1
62	Integrin Requirement for Hippocampal Synaptic Plasticity and Spatial Memory. <i>Journal of Neuroscience</i> , 2003, 23, 7107-7116.	1.7	175
63	Integrins in the development function and dysfunction of the nervous system. <i>Frontiers in Bioscience - Landmark</i> , 2003, 8, d723-750.	3.0	96
64	Integrins Regulate NMDA Receptor-Mediated Synaptic Currents. <i>Journal of Neurophysiology</i> , 2003, 89, 2874-2878.	0.9	92
65	Integrins. , 2004, , 609-632.		2
66	Binding Sites of Amyloid $\beta$ -Peptide in Cell Plasma Membrane and Implications for Alzheimers Disease. <i>Current Protein and Peptide Science</i> , 2004, 5, 19-31.	0.7	104
68	Neurite Outgrowth by the Alternatively Spliced Region of Human Tenascin-C Is Mediated by Neuronal $\alpha 1 \beta 1$ Integrin. <i>Journal of Neuroscience</i> , 2004, 24, 238-247.	1.7	83
69	Oxidative Stress Affects the Integrin-Linked Kinase Signaling Pathway After Transient Focal Cerebral Ischemia. <i>Stroke</i> , 2004, 35, 2560-2565.	1.0	24
70	$\alpha 3 \beta 1$ integrin modulates neuronal migration and placement during early stages of cerebral cortical development. <i>Development (Cambridge)</i> , 2004, 131, 6023-6031.	1.2	91
71	Amyloid $\beta$ -peptide interactions with neuronal and glial cell plasma membrane: binding sites and implications for Alzheimer's disease. <i>Journal of Peptide Science</i> , 2004, 10, 229-248.	0.8	251
72	Dorsal root ganglion neurons up-regulate the expression of laminin-associated integrins after peripheral but not central axotomy. <i>Journal of Comparative Neurology</i> , 2004, 480, 162-169.	0.9	53
73	$\beta 1$ integrin activation: A link between $\beta$ -amyloid deposition and neuronal death in aging hippocampal neurons. <i>Journal of Neuroscience Research</i> , 2004, 75, 688-697.	1.3	36
74	Microregional extracellular matrix heterogeneity in brain modulates glioma cell invasion. <i>International Journal of Biochemistry and Cell Biology</i> , 2004, 36, 1046-1069.	1.2	449

#	ARTICLE	IF	CITATIONS
75	Cadherin-related neuronal receptor 1 (CNR1) has cell adhesion activity with $\alpha 2$ integrin mediated through the RGD site of CNR1. <i>Experimental Cell Research</i> , 2004, 294, 494-508.	1.2	47
76	Integrin messenger RNAs in the red nucleus after axotomy and neurotrophic administration. <i>NeuroReport</i> , 2005, 16, 709-713.	0.6	12
77	Integrin signaling cascades are operational in adult hippocampal synapses and modulate NMDA receptor physiology. <i>Journal of Neurochemistry</i> , 2005, 93, 834-849.	2.1	105
78	AMPA receptor stimulation increases $\alpha 5 \beta 1$ integrin surface expression, adhesive function and signaling. <i>Journal of Neurochemistry</i> , 2005, 94, 531-546.	2.1	34
79	Differential translation and fragile X syndrome. <i>Genes, Brain and Behavior</i> , 2005, 4, 360-384.	1.1	71
80	Integrin-growth factor interactions as regulators of oligodendroglial development and function. <i>Glia</i> , 2005, 49, 467-479.	2.5	116
81	Involvement of $\beta 1$ integrin in microglial chemotaxis and proliferation on fibronectin: Different regulations by ADP through PKA. <i>Glia</i> , 2005, 52, 98-107.	2.5	89
82	Consolidation: A View from the Synapse. , 2005, , 469-494.		3
83	Vascular Development of the Brain Requires $\alpha 8$ Integrin Expression in the Neuroepithelium. <i>Journal of Neuroscience</i> , 2005, 25, 9940-9948.	1.7	171
84	Integrin-Mediated Dendrite Branch Maintenance Requires Abelson (Abl) Family Kinases. <i>Journal of Neuroscience</i> , 2005, 25, 6105-6118.	1.7	134
85	Branching Morphogenesis in Vertebrate Neurons. , 2005, , 8-65.		6
86	Gene expression of connective tissue growth factor in adult mouse. <i>Growth Factors</i> , 2005, 23, 43-53.	0.5	31
87	Preferential expression of an AAV-2 construct in NOS-positive interneurons following intrastriatal injection. <i>Molecular Brain Research</i> , 2005, 141, 74-82.	2.5	4
88	Activation of integrin $\alpha 5 \beta 1$ delays apoptosis of Ntera2 neuronal cells. <i>Molecular and Cellular Neurosciences</i> , 2005, 28, 588-598.	1.0	29
89	Molecular mechanisms of dendritic spine development and remodeling. <i>Progress in Neurobiology</i> , 2005, 75, 161-205.	2.8	307
90	Extracellular Matrix and Synaptic Functions. , 2006, 43, 69-97.		49
91	Integrin $\alpha 3 \beta 1$ suppresses long-term potentiation at inhibitory synapses on the cerebellar Purkinje neuron. <i>Molecular and Cellular Neurosciences</i> , 2006, 31, 416-426.	1.0	50
92	Neuronal expression of keratinocyte-associated transmembrane protein-4, KCT-4, in mouse brain and its up-regulation by neurite outgrowth of Neuro-2a cells. <i>Neuroscience Letters</i> , 2006, 392, 226-230.	1.0	9

#	ARTICLE	IF	CITATIONS
93	Cell adhesion molecules at the synapse. <i>Frontiers in Bioscience - Landmark</i> , 2006, 11, 2400.	3.0	115
94	Perinatal Subplate Neuron Injury: Implications for Cortical Development and Plasticity. <i>Brain Pathology</i> , 2005, 15, 250-260.	2.1	142
95	Chronic stress induces upregulation of brain-derived neurotrophic factor (BDNF) mRNA and integrin $\beta 5$ expression in the rat pineal gland. <i>Brain Research</i> , 2006, 1086, 27-34.	1.1	20
96	L1, $\beta 1$ integrin, and cadherins mediate axonal regeneration in the embryonic spinal cord. <i>Journal of Neurobiology</i> , 2006, 66, 1564-1583.	3.7	35
97	Integrin $\beta 3 \beta 1$ interacts with I1PP2A/lap and phosphatase PP1. <i>Journal of Neuroscience Research</i> , 2006, 84, 1759-1770.	1.3	6
98	Definition of Genes and Paths Involved in Alzheimers Disease: Using Gene Expression Profiles and Chemical Genetics at the Mouse Brain Level. <i>Current Genomics</i> , 2006, 7, 293-300.	0.7	3
99	Integrins Control Dendritic Spine Plasticity in Hippocampal Neurons through NMDA Receptor and $Ca^{2+}$ /Calmodulin-Dependent Protein Kinase II-Mediated Actin Reorganization. <i>Journal of Neuroscience</i> , 2006, 26, 1813-1822.	1.7	180
100	Integrin-driven actin polymerization consolidates long-term potentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5579-5584.	3.3	199
101	$\beta 1$ -Integrins Are Required for Hippocampal AMPA Receptor-Dependent Synaptic Transmission, Synaptic Plasticity, and Working Memory. <i>Journal of Neuroscience</i> , 2006, 26, 223-232.	1.7	150
102	Distinct Roles of the beta1-Class Integrins at the Developing and the Mature Hippocampal Excitatory Synapse. <i>Journal of Neuroscience</i> , 2006, 26, 11208-11219.	1.7	139
103	Fibrinogen inhibits neurite outgrowth via $\beta 3$ integrin-mediated phosphorylation of the EGF receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11814-11819.	3.3	103
104	Neural Stem/Progenitor Cells Express 20 Tenascin C Isoforms That Are Differentially Regulated by Pax6. <i>Journal of Biological Chemistry</i> , 2007, 282, 9172-9181.	1.6	76
105	RPTP $\beta$ is required for rigidity-dependent inhibition of extension and differentiation of hippocampal neurons. <i>Journal of Cell Science</i> , 2007, 120, 3895-3904.	1.2	94
106	The EphA4 receptor regulates dendritic spine remodeling by affecting $\beta 1$ -integrin signaling pathways. <i>Journal of Cell Biology</i> , 2007, 178, 1295-1307.	2.3	135
107	$\beta 3$ -Integrins are required for hippocampal long-term potentiation and working memory. <i>Learning and Memory</i> , 2007, 14, 606-615.	0.5	48
108	Studies on Integrins in the Nervous System. <i>Methods in Enzymology</i> , 2007, 426, 203-221.	0.4	26
109	Synaptic Plasticity (and the Lack Thereof) in Hippocampal CA2 Neurons. <i>Journal of Neuroscience</i> , 2007, 27, 12025-12032.	1.7	150
110	Inhibition of Hippocampal Matrix Metalloproteinase-3 and -9 Disrupts Spatial Memory. <i>Neural Plasticity</i> , 2007, 2007, 1-8.	1.0	54

#	ARTICLE	IF	CITATIONS
111	Integrin-binding RGD peptides induce rapid intracellular calcium increases and MAPK signaling in cortical neurons. <i>Molecular and Cellular Neurosciences</i> , 2007, 34, 147-154.	1.0	34
112	RGD domains neuroprotect the immature brain by a glial-dependent mechanism. <i>Annals of Neurology</i> , 2007, 62, 251-261.	2.8	18
113	Modulation of Experimental Autoimmune Encephalomyelitis by VLA-2 Blockade. <i>Brain Pathology</i> , 2007, 17, 45-55.	2.1	35
114	ADAM23 Plays Multiple Roles in Neuronal Differentiation of P19 Embryonal Carcinoma cells. <i>Neurochemical Research</i> , 2007, 32, 1217-1223.	1.6	14
115	Adeno-associated virus type 2 vectors: transduction and long-term expression in cerebellar Purkinje cells in vivo is mediated by the fibroblast growth factor receptor 1. <i>Archives of Virology</i> , 2008, 153, 2107-2110.	0.9	9
116	Integrin $\alpha 1$ is involved in the signaling of glial cell line-derived neurotrophic factor. <i>Journal of Comparative Neurology</i> , 2008, 509, 203-210.	0.9	68
117	Direct Thy-1/ $\alpha 23$ integrin interaction mediates neuron to astrocyte communication. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1111-1120.	1.9	71
118	Integrin activation modulates NMDA and AMPA receptor function of CA1 cells in a dose-related fashion in vivo. <i>Brain Research</i> , 2008, 1233, 20-26.	1.1	14
119	Integrin regulation of cytoplasmic calcium in excitatory neurons depends upon glutamate receptors and release from intracellular stores. <i>Molecular and Cellular Neurosciences</i> , 2008, 37, 770-780.	1.0	24
120	Integrin-laminin interactions controlling neurite outgrowth from adult DRG neurons in vitro. <i>Molecular and Cellular Neurosciences</i> , 2008, 39, 50-62.	1.0	90
121	$\alpha v$ integrins mediate beta-amyloid induced inhibition of long-term potentiation. <i>Neurobiology of Aging</i> , 2008, 29, 1485-1493.	1.5	35
122	Activity-Dependent Regulation of Synaptic AMPA Receptor Composition and Abundance by $\alpha 23$ Integrins. <i>Neuron</i> , 2008, 58, 749-762.	3.8	197
123	Genomic Anatomy of the Hippocampus. <i>Neuron</i> , 2008, 60, 1010-1021.	3.8	337
124	Extracellular proteolysis by matrix metalloproteinase-9 drives dendritic spine enlargement and long-term potentiation coordinately. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19520-19525.	3.3	288
125	Differential involvement of $\alpha 23$ integrin in pre- and postsynaptic forms of adaptation to chronic activity deprivation. <i>Neuron Glia Biology</i> , 2008, 4, 179-187.	2.0	53
126	Tenascin C in Stem Cell Niches: Redundant, Permissive or Instructive?. <i>Cells Tissues Organs</i> , 2008, 188, 170-177.	1.3	47
127	Appearance of LFA-1 in the initial stage of synaptogenesis of developing hippocampal neurons. <i>Archives of Histology and Cytology</i> , 2008, 71, 23-36.	0.2	6
128	Collagen Receptor Integrins: Rising to the Challenge. <i>Current Drug Targets</i> , 2008, 9, 139-149.	1.0	46



#	ARTICLE	IF	CITATIONS
129	Integrins and Cadherins – Extracellular Matrix in Memory Formation. , 2008, , 721-740.		3
130	Î±9 Integrin Promotes Neurite Outgrowth on Tenascin-C and Enhances Sensory Axon Regeneration. Journal of Neuroscience, 2009, 29, 5546-5557.	1.7	144
131	Fine mapping and association studies in a candidate region for autism on chromosome 2q31–q32. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2009, 150B, 535-544.	1.1	12
132	Evidence of angiogenic vessels in Alzheimer’s disease. Journal of Neural Transmission, 2009, 116, 587-597.	1.4	126
133	Integrin expression is altered after acute and chronic cocaine. Neuroscience Letters, 2009, 450, 321-323.	1.0	29
134	Reviews: Mechanisms Mediating Brain Plasticity: IGF1 and Adult Hippocampal Neurogenesis. Neuroscientist, 2009, 15, 134-148.	2.6	119
135	Engineering ECM Complexity into Biomaterials for Directing Cell Fate. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2010, , 1-18.	0.7	4
136	Lack of association between markers in the ITGA3, ITGAV, ITGA6 and ITGB3 and autism in an Irish sample. Autism Research, 2010, 3, 342-344.	2.1	6
137	Peripheral facial nerve axotomy in mice causes sprouting of motor axons into perineuronal central white matter: Time course and molecular characterization. Journal of Comparative Neurology, 2010, 518, 699-721.	0.9	24
138	The RGD-containing peptide fragment of osteopontin protects tyrosine hydroxylase positive cells against toxic insult in primary ventral mesencephalic cultures and in the rat substantia nigra. Journal of Neurochemistry, 2010, 114, 1792-1804.	2.1	33
139	Î±8 Integrins are required for hippocampal long-term potentiation but not for hippocampal-dependent learning. Genes, Brain and Behavior, 2010, 9, 402-410.	1.1	31
140	DISC1 regulates cell–cell adhesion, cell–matrix adhesion and neurite outgrowth. Molecular Psychiatry, 2010, 15, 798-809.	4.1	50
141	A crosstalk between Î²1 and Î²3 integrins controls glycine receptor and gephyrin trafficking at synapses. Nature Neuroscience, 2010, 13, 1388-1395.	7.1	86
142	Fibrillar AÎ²1-42 Enhances NMDA Receptor Sensitivity via the Integrin Signaling Pathway. Journal of Alzheimer’s Disease, 2010, 19, 1055-1067.	1.2	18
143	Integrin Receptors and Ligand-Gated Channels. Advances in Experimental Medicine and Biology, 2010, 674, 95-105.	0.8	6
144	Antisense Oligonucleotides as an Innovative Therapeutic Strategy in the Treatment of High-Grade Gliomas. Recent Patents on CNS Drug Discovery, 2010, 5, 53-69.	0.9	26
145	New Insights into the Regulation of Ion Channels by Integrins. International Review of Cell and Molecular Biology, 2010, 279, 135-190.	1.6	38
146	A stabilising influence: Integrins in regulation of synaptic plasticity. Neuroscience Research, 2011, 70, 24-29.	1.0	57

#	ARTICLE	IF	CITATIONS
147	Could nanoparticle systems have a role in the treatment of cerebral gliomas?. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 744-752.	1.7	74
148	An angiogenic inhibitor, cyclic RGDfV, attenuates MPTP-induced dopamine neuron toxicity. <i>Experimental Neurology</i> , 2011, 231, 160-170.	2.0	12
149	Regulation of axonal outgrowth and pathfinding by integrinâ€‘ecm interactions. <i>Developmental Neurobiology</i> , 2011, 71, 901-923.	1.5	211
150	Extracellular matrix and matrix receptors in bloodâ€‘brain barrier formation and stroke. <i>Developmental Neurobiology</i> , 2011, 71, 1018-1039.	1.5	313
151	Preferential and Bidirectional Labeling of the Rubrospinal Tract with Adenovirus-GFP for Monitoring Normal and Injured Axons. <i>Journal of Neurotrauma</i> , 2011, 28, 635-647.	1.7	9
152	Suppression of Î²1-Integrin in Gonadotropin-Releasing Hormone Cells Disrupts Migration and Axonal Extension Resulting in Severe Reproductive Alterations. <i>Journal of Neuroscience</i> , 2012, 32, 16992-17002.	1.7	34
153	Integrin manipulation to improve regeneration. <i>Cell Adhesion and Migration</i> , 2012, 6, 451-453.	1.1	1
154	Integrin Î²1 Signals through Arg to Regulate Postnatal Dendritic Arborization, Synapse Density, and Behavior. <i>Journal of Neuroscience</i> , 2012, 32, 2824-2834.	1.7	97
155	Osteopontin is upregulated after mechanical brain injury and stimulates neurite growth from hippocampal neurons through Î²1 integrin and CD44. <i>NeuroReport</i> , 2012, 23, 647-652.	0.6	28
156	Intrinsic Mechanisms Regulating Axon Regeneration. <i>International Review of Neurobiology</i> , 2012, 106, 75-104.	0.9	17
157	Perisynaptic Chondroitin Sulfate Proteoglycans Restrict Structural Plasticity in an Integrin-Dependent Manner. <i>Journal of Neuroscience</i> , 2012, 32, 18009-18017.	1.7	127
158	Reelin Controls Neuronal Positioning by Promoting Cell-Matrix Adhesion via Inside-Out Activation of Integrin Î±5Î²1. <i>Neuron</i> , 2012, 76, 353-369.	3.8	156
159	Assembling Neurospheres: Dynamics of Neural Progenitor/Stem Cell Aggregation Probed Using an Optical Trap. <i>PLoS ONE</i> , 2012, 7, e38613.	1.1	26
160	Compensatory redistribution of neuroligins and Nâ€‘cadherin following deletion of synaptic Î²1â€‘integrin. <i>Journal of Comparative Neurology</i> , 2012, 520, 2041-2052.	0.9	54
161	Integrins as receptor targets for neurological disorders. , 2012, 134, 68-81.		149
162	Building and remodeling synapses. <i>Hippocampus</i> , 2012, 22, 954-968.	0.9	31
163	Evidence for angiogenesis in Parkinsonâ€™s disease, incidental Lewy body disease, and progressive supranuclear palsy. <i>Journal of Neural Transmission</i> , 2012, 119, 59-71.	1.4	106
164	Molecular mechanisms of dendrite stability. <i>Nature Reviews Neuroscience</i> , 2013, 14, 536-550.	4.9	314

#	ARTICLE	IF	CITATIONS
165	Estrogen promotes learning-related plasticity by modifying the synaptic cytoskeleton. <i>Neuroscience</i> , 2013, 239, 3-16.	1.1	86
166	The role of peripheral nerve ECM components in the tissue engineering nerve construction. <i>Reviews in the Neurosciences</i> , 2013, 24, 443-53.	1.4	61
167	Arg kinase signaling in dendrite and synapse stabilization pathways: Memory, cocaine sensitivity, and stress. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2496-2500.	1.2	15
168	Semaphorin7A and its receptors: Pleiotropic regulators of immune cell function, bone homeostasis, and neural development. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 129-138.	2.3	38
169	Integrin $\beta 3$ Is Required for Late Postnatal Stability of Dendrite Arbors, Dendritic Spines and Synapses, and Mouse Behavior. <i>Journal of Neuroscience</i> , 2013, 33, 6742-6752.	1.7	50
170	XLMR protein related to neurite extension (Xpn/KIAA2022) regulates cell-cell and cell-matrix adhesion and migration. <i>Neurochemistry International</i> , 2013, 63, 561-569.	1.9	22
171	$\beta 6$ integrin subunit regulates cerebellar development. <i>Cell Adhesion and Migration</i> , 2013, 7, 325-332.	1.1	11
172	Proregenerative Properties of ECM Molecules. <i>BioMed Research International</i> , 2013, 2013, 1-11.	0.9	24
173	Expression of integrin and CD44 receptors recognising osteopontin in the normal and LPS-lesioned rat substantia nigra. <i>European Journal of Neuroscience</i> , 2013, 38, 2468-2476.	1.2	20
174	Rapid Effects of Oestrogen on Synaptic Plasticity: Interactions with Actin and Its Signalling Proteins. <i>Journal of Neuroendocrinology</i> , 2013, 25, 1163-1172.	1.2	40
175	From Gliomagenesis to Multimodal Therapeutic Approaches into High-Grade Glioma Treatment. , 0, , .		0
176	Targeting of ECM molecules and their metabolizing enzymes and receptors for the treatment of CNS diseases. <i>Progress in Brain Research</i> , 2014, 214, 353-388.	0.9	48
177	Structural and Functional Organization of the Postsynaptic Density. , 2014, , 129-153.		2
178	ECM receptors in neuronal structure, synaptic plasticity, and behavior. <i>Progress in Brain Research</i> , 2014, 214, 101-131.	0.9	72
179	Neuronal degeneration, synaptic defects, and behavioral abnormalities in tau45-230 transgenic mice. <i>Neuroscience</i> , 2014, 275, 322-339.	1.1	32
180	Kinesin KIF4A transports integrin $\beta 1$ in developing axons of cortical neurons. <i>Molecular and Cellular Neurosciences</i> , 2014, 63, 60-71.	1.0	21
181	Early Transcriptional Changes Induced by Wnt/ $\beta 2$ -Catenin Signaling in Hippocampal Neurons. <i>Neural Plasticity</i> , 2016, 2016, 1-13.	1.0	19
182	Atomic Force Microscopy Protocol for Measurement of Membrane Plasticity and Extracellular Interactions in Single Neurons in Epilepsy. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 88.	1.7	13

#	ARTICLE	IF	CITATIONS
183	The Calcium-Sensing Receptor and Integrins in Cellular Differentiation and Migration. <i>Frontiers in Physiology</i> , 2016, 7, 190.	1.3	37
184	Adhesion Molecules in Synapse Assembly and Function. , 2016, , 425-465.		1
185	Dendrite Maintenance. , 2016, , 317-355.		0
186	Integrins in synapse regulation. <i>Nature Reviews Neuroscience</i> , 2016, 17, 745-756.	4.9	133
187	PET-Based Human Dosimetry of the Dimeric $\alpha_5\beta_3$ Integrin Ligand $^{68}\text{Ga}$ -DOTA-E-[c(RGDfK)] $_2$ , a Potential Tracer for Imaging Tumor Angiogenesis. <i>Journal of Nuclear Medicine</i> , 2016, 57, 404-409.	2.8	20
188	Estradiol Facilitates Functional Integration of iPSC-Derived Dopaminergic Neurons into Striatal Neuronal Circuits via Activation of Integrin $\alpha_5\beta_1$ . <i>Stem Cell Reports</i> , 2016, 6, 511-524.	2.3	21
189	Integrin $\alpha_5\beta_1$ expression on dopaminergic neurons is involved in dopaminergic neurite outgrowth on striatal neurons. <i>Scientific Reports</i> , 2017, 7, 42111.	1.6	23
190	Differential expression of cytoskeletal regulatory factors in the adolescent prefrontal cortex: Implications for cortical development. <i>Journal of Neuroscience Research</i> , 2017, 95, 1123-1143.	1.3	56
191	Structural and Functional Organization of the Postsynaptic Density $\alpha$ . , 2017, , .		1
192	Integrins promote axonal regeneration after injury of the nervous system. <i>Biological Reviews</i> , 2018, 93, 1339-1362.	4.7	81
193	Atypical Endocannabinoid Signaling Initiates a New Form of Memory-Related Plasticity at a Cortical Input to Hippocampus. <i>Cerebral Cortex</i> , 2018, 28, 2253-2266.	1.6	50
194	Integrin Activation: Implications for Axon Regeneration. <i>Cells</i> , 2018, 7, 20.	1.8	38
195	Integrin activity in neuronal connectivity. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	78
196	Osteopontin counters human immunodeficiency virus type 1-induced impairment of neurite growth through mammalian target of rapamycin and beta-integrin signaling pathways. <i>Journal of NeuroVirology</i> , 2019, 25, 384-396.	1.0	8
197	Pentraxin 3 regulates synaptic function by inducing AMPA receptor clustering via ECM remodeling and $\alpha_5\beta_1$ integrin. <i>EMBO Journal</i> , 2019, 38, .	3.5	42
198	Peptide-modified, hyaluronic acid-based hydrogels as a 3D culture platform for neural stem/progenitor cell engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 704-718.	2.1	64
199	Proteomic Response of the Brain to Hypoxic Stress in Marine Medaka Fish ( <i>Oryzias melastigma</i> ). <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	1
200	RGD-Peptide Functionalization Affects the <i>In Vivo</i> Diffusion of a Responsive Trimeric MRI Contrast Agent through Interactions with Integrins. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7565-7574.	2.9	4

#	ARTICLE	IF	CITATIONS
201	Adhesion-Induced Intracellular Mechanisms of Neurite Elongation. , 2007, , 1-24.		2
202	Integrins, Synaptic Plasticity and Epileptogenesis. <i>Advances in Experimental Medicine and Biology</i> , 2004, 548, 12-33.	0.8	49
203	Regulation of an inactivating potassium current (IA) by the extracellular matrix protein vitronectin in embryonic mouse hippocampal neurones. <i>Journal of Physiology</i> , 2003, 547, 859-871.	1.3	21
204	A role for PS integrins in morphological growth and synaptic function at the postembryonic neuromuscular junction of <i>Drosophila</i> . <i>Development (Cambridge)</i> , 1999, 126, 5833-5846.	1.2	86
205	Integrins regulate DLG/FAS2 via a CaM kinase II-dependent pathway to mediate synapse elaboration and stabilization during postembryonic development. <i>Development (Cambridge)</i> , 2002, 129, 3381-3391.	1.2	58
206	A Possible Role for Integrin Signaling in Diffuse Axonal Injury. <i>PLoS ONE</i> , 2011, 6, e22899.	1.1	97
207	Astrocytic $\alpha$ 23 Integrin Inhibits Neurite Outgrowth and Promotes Retraction of Neuronal Processes by Clustering Thy-1. <i>PLoS ONE</i> , 2012, 7, e34295.	1.1	56
208	Long-Distance Retinoid Signaling in the Zebra Finch Brain. <i>PLoS ONE</i> , 2014, 9, e111722.	1.1	9
209	Axonal Localization of Integrins in the CNS Is Neuronal Type and Age Dependent. <i>ENeuro</i> , 2016, 3, ENEURO.0029-16.2016.	0.9	40
210	Microvessel integrin expression during focal cerebral ischemia. , 2001, , 195-215.		0
211	Osteopontin infusion into normal adult rat brain fails to increase cell proliferation in dentate gyrus and subventricular zone. , 2003, 86, 181-185.		9
212	Development of Integrin Expression as a Molecular Biomarker for Early, Sensitive Detection of Neurotoxicity. , 2003, , .		0
213	Regulation of Neuronal Morphogenesis by Abl Family Kinases. , 2007, , 180-194.		0
214	Identification of Hub Genes Related to Alzheimer's Disease and Major Depressive Disorder. <i>American Journal of Alzheimer's Disease and Other Dementias</i> , 2021, 36, 15333175211046123.	0.9	14
215	Regeneration and Repair. , 2005, , 329-348.		0
216	Adhesion Molecules at the Synapse. , 2008, , 173-204.		0
218	Synaptic or Non-synaptic? Different Intercellular Interactions with Retinal Ganglion Cells in Optic Nerve Regeneration. <i>Molecular Neurobiology</i> , 2022, 59, 3052-3072.	1.9	6
219	Altering Cell-Cell Interaction in Prenatal Alcohol Exposure Models: Insight on Cell-Adhesion Molecules During Brain Development. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 753537.	1.4	4

#	ARTICLE	IF	CITATIONS
220	CRISPR-Mediated Activation of $\alpha$ V Integrin Subtypes Promotes Neuronal Differentiation of Neuroblastoma Neuro2a Cells. <i>Frontiers in Genome Editing</i> , 2022, 4, 846669.	2.7	5
222	Osteopontin/secreted phosphoprotein-1 harnesses glial, immune, and neuronal cell ligand-receptor interactions to sense and regulate acute and chronic neuroinflammation. <i>Immunological Reviews</i> , 2022, 311, 224-233.	2.8	40
223	Mechanical regulation of synapse formation and plasticity. <i>Seminars in Cell and Developmental Biology</i> , 2023, 140, 82-89.	2.3	9
225	The role of integrin beta in schizophrenia: a preliminary exploration. <i>CNS Spectrums</i> , 2023, 28, 561-570.	0.7	0
226	Message in a Scaffold: Natural Biomaterials for Three-Dimensional (3D) Bioprinting of Human Brain Organoids. <i>Biomolecules</i> , 2023, 13, 25.	1.8	6