Sensory Deprivation Alters Aggrecan and Perineuronal Cortex

Journal of Neuroscience 27, 5405-5413

DOI: 10.1523/jneurosci.5425-06.2007

Citation Report

#	Article	IF	CITATIONS
1	DACS, novel matrix structure composed of chondroitin sulfate proteoglycan in the brain. Biochemical and Biophysical Research Communications, 2007, 364, 410-415.	1.0	26
2	Localization of chondroitin sulfate proteoglycan versican in adult brain with special reference to large projection neurons. Cell and Tissue Research, 2008, 334, 163-177.	1.5	17
3	Spatiotemporal distribution of proteoglycans in the developing rat's barrel field and the effects of early deafferentation. Journal of Comparative Neurology, 2008, 510, 145-157.	0.9	10
4	Distribution and synthesis of extracellular matrix proteoglycans, hyaluronan, link proteins and tenascinâ€R in the rat spinal cord. European Journal of Neuroscience, 2008, 27, 1373-1390.	1.2	166
5	Aggrecan-based extracellular matrix is an integral part of the human basal ganglia circuit. Neuroscience, 2008, 151, 489-504.	1.1	83
6	Aggrecan is expressed by embryonic brain glia and regulates astrocyte development. Developmental Biology, 2008, 315, 114-124.	0.9	54
7	Cortical and subcortical plasticity in the brains of humans, primates, and rats after damage to sensory afferents in the dorsal columns of the spinal cord. Experimental Neurology, 2008, 209, 407-416.	2.0	169
8	Gap Junction-Mediated Astrocytic Networks in the Mouse Barrel Cortex. Journal of Neuroscience, 2008, 28, 5207-5217.	1.7	180
9	Synaptic Mechanisms of Activity-Dependent Remodeling in Visual Cortex during Monocular Deprivation. Journal of Experimental Neuroscience, 2009, 2, JEN.S2559.	2.3	8
10	Multiple Genes on Chromosome 7 Regulate Dopaminergic Amacrine Cell Number in the Mouse Retina. , 2009, 50, 1996.		43
11	Modulation of Perineuronal Nets and Parvalbumin with Developmental Song Learning. Journal of Neuroscience, 2009, 29, 12878-12885.	1.7	161
12	Long-term sensory deprivation selectively rearranges functional inhibitory circuits in mouse barrel cortex. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12156-12161.	3.3	38
13	Transcriptional and Electrophysiological Maturation of Neocortical Fast-Spiking GABAergic Interneurons. Journal of Neuroscience, 2009, 29, 7040-7052.	1.7	256
14	Differential distribution of aggrecan isoforms in perineuronal nets of the human cerebral cortex. Journal of Cellular and Molecular Medicine, 2009, 13, 3151-3173.	1.6	26
15	Expression of chondroitin sulfate proteoglycans in barrel field of mouse and rat somatosensory cortex. Brain Research, 2009, 1252, 117-129.	1.1	47
16	Collagens in the developing and diseased nervous system. Cellular and Molecular Life Sciences, 2009, 66, 1223-1238.	2.4	98
17	Parvalbuminâ€containing neurons, perineuronal nets and experienceâ€dependent plasticity in murine barrel cortex. European Journal of Neuroscience, 2009, 30, 2053-2063.	1.2	89
18	A new paradigm for the reversible blockage of whisker sensory transmission. Journal of Neuroscience Methods, 2009, 176, 63-67.	1.3	9

#	Article	IF	CITATIONS
19	Neonatal whisker trimming causes long-lasting changes in structure and function of the somatosensory system. Experimental Neurology, 2009, 219, 524-532.	2.0	53
20	Influence of aging on chondroitin sulfate proteoglycan expression and neural stem/progenitor cells in rat brain and improving effects of a herbal medicine, yokukansan. Neuroscience, 2009, 164, 1224-1234.	1.1	36
21	Topographical and cellular distribution of perineuronal nets in the human cochlear nucleus. Hearing Research, 2009, 254, 42-53.	0.9	33
22	Aggrecan expression, a component of the inhibitory interneuron perineuronal net, is altered following an early-life seizure. Neurobiology of Disease, 2010, 39, 439-448.	2.1	40
23	Distribution and classification of aggrecanâ€based extracellular matrix in the thalamus of the rat. Journal of Neuroscience Research, 2010, 88, 3257-3266.	1.3	17
24	Animals lacking link protein have attenuated perineuronal nets and persistent plasticity. Brain, 2010, 133, 2331-2347.	3.7	411
25	Developmental Expression of the Oligodendrocyte Myelin Glycoprotein in the Mouse Telencephalon. Cerebral Cortex, 2010, 20, 1769-1779.	1.6	28
26	Distribution of perineuronal nets in the human superior olivary complex. Hearing Research, 2010, 265, 15-24.	0.9	16
27	Chondroitin sulphate proteoglycan-based perineuronal net establishment is largely activity-independent in chick visual system. Journal of Chemical Neuroanatomy, 2010, 40, 243-247.	1.0	15
28	Monaural Deprivation Disrupts Development of Binaural Selectivity in Auditory Midbrain and Cortex. Neuron, 2010, 65, 718-731.	3.8	183
29	Activity-dependent remodeling of chondroitin sulfate proteoglycans extracellular matrix in the hypothalamo–neurohypophysial system. Neuroscience, 2010, 166, 1068-1082.	1.1	32
30	Neurons associated with aggrecan-based perineuronal nets are protected against tau pathology in subcortical regions in Alzheimer's disease. Neuroscience, 2010, 169, 1347-1363.	1.1	132
31	Perineuronal net formation and structure in aggrecan knockout mice. Neuroscience, 2010, 170, 1314-1327.	1.1	175
32	Candidate Gene Analysis of the Human Natural Killer-1 Carbohydrate Pathway and Perineuronal Nets in Schizophrenia: B3GAT2 Is Associated with Disease Risk and Cortical Surface Area. Biological Psychiatry, 2011, 69, 90-96.	0.7	42
33	Disturbance of perineuronal nets in the perilesional area after photothrombosis is not associated with neuronal death. Experimental Neurology, 2011, 231, 113-126.	2.0	44
34	Extracellular matrix and perineuronal nets in CNS repair. Developmental Neurobiology, 2011, 71, 1073-1089.	1.5	327
35	Chondroitinase Combined with Rehabilitation Promotes Recovery of Forelimb Function in Rats with Chronic Spinal Cord Injury. Journal of Neuroscience, 2011, 31, 9332-9344.	1.7	185
36	Persistent decrease in multiple components of the perineuronal net following status epilepticus. European Journal of Neuroscience, 2012, 36, 3471-3482.	1.2	71

#	Article	IF	CITATIONS
37	The perineuronal net component of the extracellular matrix in plasticity and epilepsy. Neurochemistry International, 2012, 61, 963-972.	1.9	126
38	Extracellular matrix abnormalities in schizophrenia. Neuropharmacology, 2012, 62, 1584-1597.	2.0	159
39	Deconstructing the perineuronal net: Cellular contributions and molecular composition of the neuronal extracellular matrix. Neuroscience, 2012, 218, 367-384.	1.1	105
40	RPTPζ/phosphacan is abnormally glycosylated in a model of muscle–eye–brain disease lacking functional POMGnT1. Neuroscience, 2012, 220, 47-61.	1.1	42
41	Effect of unilateral labyrinthectomy on the molecular composition of perineuronal nets in the lateral vestibular nucleus of the rat. Neuroscience Letters, 2012, 513, 1-5.	1.0	21
42	Chondroitin sulfate: A key molecule in the brain matrix. International Journal of Biochemistry and Cell Biology, 2012, 44, 582-586.	1.2	113
43	Aggrecan: Beyond cartilage and into the brain. International Journal of Biochemistry and Cell Biology, 2012, 44, 690-693.	1.2	113
44	Sensory deprivation differentially impacts the dendritic development of pyramidal versus non-pyramidal neurons in layer 6 of mouse barrel cortex. Brain Structure and Function, 2012, 217, 435-446.	1.2	12
45	The perineuronal net and the control of CNS plasticity. Cell and Tissue Research, 2012, 349, 147-160.	1.5	304
46	Alterations in chondroitin sulfate proteoglycan expression occur both at and far from the site of spinal contusion injury. Experimental Neurology, 2012, 235, 174-187.	2.0	90
47	Neonatal conductive hearing loss disrupts the development of the Cat-315 epitope on perineuronal nets in the rat superior olivary complex. Brain Research, 2012, 1465, 34-47.	1.1	29
48	Involvement of Perineuronal and Perisynaptic Extracellular Matrix in Alzheimer's Disease Neuropathology. Brain Pathology, 2012, 22, 547-561.	2.1	124
49	Development and critical period plasticity of the barrel cortex. European Journal of Neuroscience, 2012, 35, 1540-1553.	1.2	275
50	Building and remodeling synapses. Hippocampus, 2012, 22, 954-968.	0.9	31
51	Organization of myelin in the mouse somatosensory barrel cortex and the effects of sensory deprivation. Developmental Neurobiology, 2013, 73, 297-314.	1.5	47
52	Comparison of sensory neuron growth cone and filopodial responses to structurally diverse aggrecan variants, in vitro. Experimental Neurology, 2013, 247, 143-157.	2.0	19
53	Balancing Plasticity/Stability Across Brain Development. Progress in Brain Research, 2013, 207, 3-34.	0.9	515
54	Proteoglycans in the central nervous system: Role in development, neural repair, and Alzheimer's disease. IUBMB Life, 2013, 65, 108-120.	1.5	70

#	Article	IF	CITATIONS
55	Spatio-temporal differences in perineuronal net expression in the mouse hippocampus, with reference to parvalbumin. Neuroscience, 2013, 253, 368-379.	1.1	56
56	Experience-dependent development of perineuronal nets and chondroitin sulfate proteoglycan receptors in mouse visual cortex. Matrix Biology, 2013, 32, 352-363.	1.5	119
57	Anatomical Plasticity of Adult Brain Is Titrated by Nogo Receptor 1. Neuron, 2013, 77, 859-866.	3.8	106
58	Loss of Branched O-Mannosyl Glycans in Astrocytes Accelerates Remyelination. Journal of Neuroscience, 2013, 33, 10037-10047.	1.7	65
59	Unique features of extracellular matrix in the mouse medial nucleus of trapezoid body – Implications for physiological functions. Neuroscience, 2013, 228, 215-234.	1.1	51
60	The Development and Activity-Dependent Expression of Aggrecan in the Cat Visual Cortex. Cerebral Cortex, 2013, 23, 349-360.	1.6	31
62	Neural ECM in regeneration and rehabilitation. Progress in Brain Research, 2014, 214, 179-192.	0.9	28
63	Experience-Dependent Synaptic Plasticity in the Developing Cerebral Cortex. , 2014, , 397-445.		1
64	Aggrecan, link protein and tenascin-R are essential components of the perineuronal net to protect neurons against iron-induced oxidative stress. Cell Death and Disease, 2014, 5, e1119-e1119.	2.7	129
65	Aging somatosensory cortex displays increased density of WFA-binding perineuronal nets associated with GAD-negative neurons. Neuroscience, 2014, 277, 734-746.	1.1	31
66	Chronic fluoxetine treatment alters the structure, connectivity and plasticity of cortical interneurons. International Journal of Neuropsychopharmacology, 2014, 17, 1635-1646.	1.0	90
67	Recent Advances in the Genetics of Vocal Learning. Comparative Cognition and Behavior Reviews, 2014, 9, 75-98.	2.0	31
68	Two functional inhibitory circuits are comprised of a heterogeneous population of fast-spiking cortical interneurons. Neuroscience, 2014, 265, 60-71.	1.1	19
69	Chemistry and Function of Glycosaminoglycans in the Nervous System. Advances in Neurobiology, 2014, 9, 89-115.	1.3	18
70	Glycobiology of the Nervous System. Advances in Neurobiology, 2014, , .	1.3	9
71	Perineuronal nets and schizophrenia: The importance of neuronal coatings. Neuroscience and Biobehavioral Reviews, 2014, 45, 85-99.	2.9	79
72	Sexually dimorphic perineuronal net expression in the songbird. Basal Ganglia, 2014, 3, 229-237.	0.3	18
73	The extracellular matrix molecule brevican is an integral component of the machinery mediating fast synaptic transmission at the calyx of Held. Journal of Physiology, 2015, 593, 4341-4360.	1.3	60

#	Article	IF	Citations
74	Perineuronal net degradation in epilepsy. Epilepsia, 2015, 56, 1124-1133.	2.6	75
75	A delicate balance: role of MMP-9 in brain development and pathophysiology of neurodevelopmental disorders. Frontiers in Cellular Neuroscience, 2015, 9, 280.	1.8	175
76	Anatomically Discrete Sex Differences in Neuroplasticity in Zebra Finches as Reflected by Perineuronal Nets. PLoS ONE, 2015, 10, e0123199.	1.1	26
77	Development and Structural Variety of the Chondroitin Sulfate Proteoglycans-Contained Extracellular Matrix in the Mouse Brain. Neural Plasticity, 2015, 2015, 1-12.	1.0	46
78	Distinct effects of perinatal exposure to fluoxetine or methylmercury on parvalbumin and perineuronal nets, the markers of critical periods in brain development. International Journal of Developmental Neuroscience, 2015, 44, 55-64.	0.7	41
79	Losing the sugar coating: Potential impact of perineuronal net abnormalities on interneurons in schizophrenia. Schizophrenia Research, 2015, 167, 18-27.	1.1	127
80	Perineuronal nets in the auditory system. Hearing Research, 2015, 329, 21-32.	0.9	44
81	Experience-dependent regulation of tissue-type plasminogen activator in the mouse barrel cortex. Neuroscience Letters, 2015, 599, 152-157.	1.0	8
82	Refinement but Not Maintenance of Visual Receptive Fields Is Independent of Visual Experience. Cerebral Cortex, 2015, 25, 904-917.	1.6	35
83	Transcriptional maturation of the mouse auditory forebrain. BMC Genomics, 2015, 16, 606.	1.2	25
84	Aggrecan and chondroitin-6-sulfate abnormalities in schizophrenia and bipolar disorder: a postmortem study on the amygdala. Translational Psychiatry, 2015, 5, e496-e496.	2.4	116
85	The hyaluronan and proteoglycan link proteins: Organizers of the brain extracellular matrix and key molecules for neuronal function and plasticity. Experimental Neurology, 2015, 274, 134-144.	2.0	96
86	Models of vocal learning in the songbird: Historical frameworks and the stabilizing critic. Developmental Neurobiology, 2015, 75, 1091-1113.	1.5	4
87	Perineuronal nets affect parvalbumin expression in <scp>GABA</scp> ergic neurons of the mouse hippocampus. European Journal of Neuroscience, 2015, 41, 368-378.	1.2	78
88	The Impact of Development and Sensory Deprivation on Dendritic Protrusions in the Mouse Barrel Cortex. Cerebral Cortex, 2015, 25, 1638-1653.	1.6	20
89	Extracellular matrix molecules exhibit unique expression pattern in the climbing fiber-generating precerebellar nucleus, the inferior olive. Neuroscience, 2015, 284, 412-421.	1.1	10
90	Activity dependent therapies modulate the spinal changes that motoneurons suffer after a peripheral nerve injury. Experimental Neurology, 2015, 263, 293-305.	2.0	37
91	Withdrawal of BDNF from hippocampal cultures leads to changes in genes involved in synaptic function. Developmental Neurobiology, 2015, 75, 173-192.	1.5	38

		CITATION REPOR	ет	
#	Article	IF	(Citations
92	Reduction in cortical parvalbumin expression due to intermittent thetaâ€burst stimulation with maturation of the perineuronal nets in young rats. Developmental Neurobiology, 2015	correlates 1.5 , 75, 1-11. 1.5	5 4	14
93	Otx2-PNN Interaction to Regulate Cortical Plasticity. Neural Plasticity, 2016, 2016, 1-7.	1.0	D 1	74
94	The Extracellular Matrix in the Nervous System: The Good and the Bad Aspects. , 0, , .		7	7
95	Reorganization of Synaptic Connections and Perineuronal Nets in the Deep Cerebellar Nucl of <i>Purkinje Cell Degeneration</i> Mutant Mice. Neural Plasticity, 2016, 2016, 1-17.	ei 1.0	D 2	18
96	Chondroitin 6-Sulfation Regulates Perineuronal Net Formation by Controlling the Stability o Aggrecan. Neural Plasticity, 2016, 2016, 1-13.	of 1.0) {	51
97	Distribution of N-Acetylgalactosamine-Positive Perineuronal Nets in the Macaque Brain: Ana Implications. Neural Plasticity, 2016, 2016, 1-19.	atomy and 1.0	0 2	24
98	Age-Related Deterioration of Perineuronal Nets in the Primary Auditory Cortex of Mice. From Aging Neuroscience, 2016, 8, 270.	itiers in 1.7	7 2	42
99	Spatial patterns and cell surface clusters in perineuronal nets. Brain Research, 2016, 1648,	214-223. 1.1		11
100	Perineuronal Nets Suppress Plasticity of Excitatory Synapses on CA2 Pyramidal Neurons. Jo Neuroscience, 2016, 36, 6312-6320.	urnal of 1.7	7]	170
101	Protective Properties of Neural Extracellular Matrix. Molecular Neurobiology, 2016, 53, 73-8	32. 1.9	€ €	82
102	Weaving a Net of Neurobiological Mechanisms in Schizophrenia and Unraveling the Underl Pathophysiology. Biological Psychiatry, 2016, 80, 589-598.	ying o.:	7 :	33
103	The neuronal extracellular matrix restricts distribution and internalization of aggregated Tau-protein. Neuroscience, 2016, 313, 225-235.	1.1	1 8	33
104	Astrocytes and Microglia-Mediated Immune Response in Maladaptive Plasticity is Differentl Modulated by NGF in the Ventral Horn of the Spinal Cord Following Peripheral Nerve Injury. and Molecular Neurobiology, 2016, 36, 37-46.	y Cellular 1.7	7 (34
105	Astrocyte roles in traumatic brain injury. Experimental Neurology, 2016, 275, 305-315.	2.0	b t	562
106	Reactivity of anti-HNK-1 antibodies to branched O- mannose glycans associated with demy Biochemical and Biophysical Research Communications, 2017, 487, 450-456.	elination. 1.0) 1	12
107	Alterations in expression of Catâ€315 epitope of perineuronal nets during normal ageing, a modulation by an openâ€channel NMDA receptor blocker, memantine. Journal of Compara Neurology, 2017, 525, 2035-2049.	nd its ive 0.9	9 1	15
108	Effects of noise-induced hearing loss on parvalbumin and perineuronal net expression in the primary auditory cortex. Hearing Research, 2017, 350, 82-90.	2 mouse 0.9	9 2	23
109	Formation and remodeling of the brain extracellular matrix in neural plasticity: Roles of cho sulfate and hyaluronan. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 242	ndroitin 1.1 0-2434		130

#	Article	IF	CITATIONS
110	Molecular mechanisms of experienceâ€dependent maturation in cortical <scp>GABA</scp> ergic inhibition. Journal of Neurochemistry, 2017, 142, 649-661.	2.1	23
111	Sensory experience-dependent formation of perineuronal nets and expression of Cat-315 immunoreactive components in the mouse somatosensory cortex. Neuroscience, 2017, 355, 161-174.	1.1	36
112	Infantile Amnesia: A Critical Period of Learning to Learn and Remember. Journal of Neuroscience, 2017, 37, 5783-5795.	1.7	131
113	Parvalbumin neurons and perineuronal nets in the mouse prefrontal cortex. Neuroscience, 2017, 343, 115-127.	1.1	62
114	Region-specific impairments in parvalbumin interneurons in social isolation-reared mice. Neuroscience, 2017, 359, 196-208.	1.1	46
115	The role of human natural killer-1 (HNK-1) carbohydrate in neuronal plasticity and disease. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2455-2461.	1.1	33
116	Developmental pathway genes and neural plasticity underlying emotional learning and stress-related disorders. Learning and Memory, 2017, 24, 492-501.	0.5	7
117	Brain extracellular space, hyaluronan, and the prevention of epileptic seizures. Reviews in the Neurosciences, 2017, 28, 869-892.	1.4	39
118	Molecular heterogeneity of aggrecanâ€based perineuronal nets around five subclasses of parvalbuminâ€expressing neurons in the mouse hippocampus. Journal of Comparative Neurology, 2017, 525, 1234-1249.	0.9	46
119	Dynamic Brains and the Changing Rules of Neuroplasticity: Implications for Learning and Recovery. Frontiers in Psychology, 2017, 8, 1657.	1.1	108
120	Expression of aggrecan components in perineuronal nets in the mouse cerebral cortex. IBRO Reports, 2018, 4, 22-37.	0.3	31
121	Releasing Addiction Memories Trapped in Perineuronal Nets. Trends in Genetics, 2018, 34, 197-208.	2.9	51
122	Respiratory dysfunction following neonatal sustained hypoxia exposure during a critical window of brain stem extracellular matrix formation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R216-R227.	0.9	10
123	NG2/CSPG4 and progranulin in the posttraumatic glial scar. Matrix Biology, 2018, 68-69, 571-588.	1.5	51
124	Genetic Reduction of Matrix Metalloproteinase-9 Promotes Formation of Perineuronal Nets Around Parvalbumin-Expressing Interneurons and Normalizes Auditory Cortex Responses in Developing Fmr1 Knock-Out Mice. Cerebral Cortex, 2018, 28, 3951-3964.	1.6	110
125	A lack of GluN2A-containing NMDA receptors confers a vulnerability to redox dysregulation: Consequences on parvalbumin interneurons, and their perineuronal nets. Neurobiology of Disease, 2018, 109, 64-75.	2.1	32
126	Disruption of perineuronal nets increases the frequency of sharp wave ripple events. Hippocampus, 2018, 28, 42-52.	0.9	40
127	A Brain without Brakes: Reduced Inhibition Is Associated with Enhanced but Dysregulated Plasticity in the Aged Rat Auditory Cortex. ENeuro, 2018, 5, ENEURO.0051-18.2018.	0.9	39

#	Article	IF	CITATIONS
128	Distribution and development of molecularly distinct perineuronal nets in visual thalamus. Journal of Neurochemistry, 2018, 147, 626-646.	2.1	23
129	Adolescence as a neurobiological critical period for the development of higher-order cognition. Neuroscience and Biobehavioral Reviews, 2018, 94, 179-195.	2.9	374
130	Proteolytic Remodeling of Perineuronal Nets: Effects on Synaptic Plasticity and Neuronal Population Dynamics. Neural Plasticity, 2018, 2018, 1-13.	1.0	64
131	Structural Variation of Chondroitin Sulfate Chains Contributes to the Molecular Heterogeneity of Perineuronal Nets. Frontiers in Integrative Neuroscience, 2018, 12, 3.	1.0	51
132	The Impact of Perineuronal Net Digestion Using Chondroitinase ABC on the Intrinsic Physiology of Cortical Neurons. Neuroscience, 2018, 388, 23-35.	1.1	24
133	Neuroanatomical characterization of perineuronal net components in the human cochlear nucleus and superior olivary complex. Hearing Research, 2018, 367, 32-47.	0.9	4
134	Anti-Chondroitin Sulfate Proteoglycan Strategies in Spinal Cord Injury: Temporal and Spatial Considerations Explain the Balance between Neuroplasticity and Neuroprotection. Journal of Neurotrauma, 2018, 35, 1958-1969.	1.7	7
135	Hyaluronic acid is present on specific perineuronal nets in the mouse cerebral cortex. Brain Research, 2018, 1698, 139-150.	1.1	5
136	Normal Development of the Perineuronal Net in Humans; In Patients with and without Epilepsy. Neuroscience, 2018, 384, 350-360.	1.1	39
137	Sensory deafferentation modulates and redistributes neurocan in the rat auditory brainstem. Brain and Behavior, 2019, 9, e01353.	1.0	6
138	Reduced perineuronal net expression in Fmr1 KO mice auditory cortex and amygdala is linked to impaired fear-associated memory. Neurobiology of Learning and Memory, 2019, 164, 107042.	1.0	25
139	The roles of perineuronal nets and the perinodal extracellular matrix inÂneuronal function. Nature Reviews Neuroscience, 2019, 20, 451-465.	4.9	320
140	Developmental abnormalities in cortical GABAergic system in mice lacking mGlu3 metabotropic glutamate receptors. FASEB Journal, 2019, 33, 14204-14220.	0.2	5
141	Environmental Enrichment From Birth Impacts Parvalbumin Expressing Cells and Wisteria Floribunda Agglutinin Labelled Peri-Neuronal Nets Within the Developing Murine Striatum. Frontiers in Neuroanatomy, 2019, 13, 90.	0.9	15
142	Effects of developmental noise exposure on inhibitory cell densities and perineuronal nets in A1 and AAF of mice. Hearing Research, 2019, 381, 107781.	0.9	12
143	Region-specific reduction of parvalbumin neurons and behavioral changes in adult mice following single exposure to cranial irradiation. International Journal of Radiation Biology, 2019, 95, 611-625.	1.0	6
144	Perineuronal net formation during the critical period for neuronal maturation in the hypothalamic arcuate nucleus. Nature Metabolism, 2019, 1, 212-221.	5.1	35
145	Quantitative changes in perineuronal nets in development and posttraumatic condition. Journal of Molecular Histology, 2019, 50, 203-216.	1.0	18

#	Article	IF	CITATIONS
146	The Structural and Compositional Changes of Chondroitin Sulfate Chains in the Aged Mouse Hippocampus. Juntendo Medical Journal, 2019, 65, 64-70.	0.1	3
147	Alteration of Extracellular Matrix Molecules and Perineuronal Nets in the Hippocampus of Pentylenetetrazol-Kindled Mice. Neural Plasticity, 2019, 2019, 1-14.	1.0	6
148	Layer-specific expression of extracellular matrix molecules in the mouse somatosensory and piriform cortices. IBRO Reports, 2019, 6, 1-17.	0.3	19
149	Regulatory roles of perineuronal nets and semaphorin 3A in the postnatal maturation of the central vestibular circuitry for graviceptive reflex. Brain Structure and Function, 2019, 224, 613-626.	1.2	6
150	Alteration of parvalbumin expression and perineuronal nets formation in the cerebral cortex of aged mice. Molecular and Cellular Neurosciences, 2019, 95, 31-42.	1.0	13
151	Neonatal Ethanol Disturbs the Normal Maturation of Parvalbumin Interneurons Surrounded by Subsets of Perineuronal Nets in the Cerebral Cortex: Partial Reversal by Lithium. Cerebral Cortex, 2019, 29, 1383-1397.	1.6	23
152	Dysregulation of auditory neuroplasticity in schizophrenia. Schizophrenia Research, 2019, 207, 3-11.	1.1	14
153	Deletion of Fmr1 from Forebrain Excitatory Neurons Triggers Abnormal Cellular, EEG, and Behavioral Phenotypes in the Auditory Cortex of a Mouse Model of Fragile X Syndrome. Cerebral Cortex, 2020, 30, 969-988.	1.6	55
154	Development and sensory experience dependent regulation of microglia in barrel cortex. Journal of Comparative Neurology, 2020, 528, 559-573.	0.9	12
155	The protein tyrosine phosphatase RPTPζ/phosphacan is critical for perineuronal net structure. Journal of Biological Chemistry, 2020, 295, 955-968.	1.6	11
156	Testosterone stimulates perineuronal nets development around parvalbumin cells in the adult canary brain in parallel with song crystallization. Hormones and Behavior, 2020, 119, 104643.	1.0	20
157	Functional maturation of neocortical inhibitory interneurons. , 2020, , 423-442.		2
158	Alpha-pinene and dizocilpine (MK-801) attenuate kindling development and astrocytosis in an experimental mouse model of epilepsy. IBRO Reports, 2020, 9, 102-114.	0.3	13
159	Pentylenetetrazol kindling induces cortical astrocytosis and increased expression of extracellular matrix molecules in mice. Brain Research Bulletin, 2020, 163, 120-134.	1.4	4
160	EHMT1 regulates Parvalbumin-positive interneuron development and GABAergic input in sensory cortical areas. Brain Structure and Function, 2020, 225, 2701-2716.	1.2	13
161	Shifting Developmental Trajectories During Critical Periods of Brain Formation. Frontiers in Cellular Neuroscience, 2020, 14, 283.	1.8	63
162	Regulation of auditory plasticity during critical periods and following hearing loss. Hearing Research, 2020, 397, 107976.	0.9	27
163	Fine structure analysis of perineuronal nets in the ketamine model of schizophrenia. European Journal of Neuroscience, 2021, 53, 3988-4004.	1.2	20

#	Article	IF	CITATIONS
164	Chondroitin sulfate proteoglycans: key modulators of neuronal plasticity, long-term memory, neurodegenerative, and psychiatric disorders. Reviews in the Neurosciences, 2020, 31, 555-568.	1.4	18
165	A Composite Sketch of Fast-Spiking Parvalbumin-Positive Neurons. Cerebral Cortex Communications, 2020, 1, tgaa026.	0.7	15
166	Decreased Density of Perineuronal Net in Prelimbic Cortex Is Linked to Depressive-Like Behavior in Young-Aged Rats. Frontiers in Molecular Neuroscience, 2020, 13, 4.	1.4	24
167	Noise exposure alters MMP9 and brevican expression in the rat primary auditory cortex. BMC Neuroscience, 2020, 21, 16.	0.8	3
168	Contribution of Interneuron Subtype-Specific GABAergic Signaling to Emergent Sensory Processing in Mouse Somatosensory Whisker Barrel Cortex. Cerebral Cortex, 2022, 32, 2538-2554.	1.6	7
169	Potential involvement of perineuronal nets in brain aging. , 2021, , 163-172.		0
170	Adultâ€born granule cell mossy fibers preferentially target parvalbuminâ€positive interneurons surrounded by perineuronal nets. Hippocampus, 2021, 31, 375-388.	0.9	8
172	Development of parvalbumin neurons and perineuronal nets in the visual cortex of normal and darkâ€exposed cats. Journal of Comparative Neurology, 2021, 529, 2827-2841.	0.9	5
173	Diurnal changes in perineuronal nets and parvalbumin neurons in the rat medial prefrontal cortex. Brain Structure and Function, 2021, 226, 1135-1153.	1.2	24
174	Perineuronal nets are under the control of type-5 metabotropic glutamate receptors in the developing somatosensory cortex. Translational Psychiatry, 2021, 11, 109.	2.4	5
175	An Extracellular Perspective on CNS Maturation: Perineuronal Nets and the Control of Plasticity. International Journal of Molecular Sciences, 2021, 22, 2434.	1.8	62
176	The emerging role of the chondroitin sulfate proteoglycan family in neurodegenerative diseases. Reviews in the Neurosciences, 2021, 32, 737-750.	1.4	11
178	Regulation of Perineuronal Nets in the Adult Cortex by the Activity of the Cortical Network. Journal of Neuroscience, 2021, 41, 5779-5790.	1.7	31
180	Coherence and cognition in the cortex: the fundamental role of parvalbumin, myelin, and the perineuronal net. Brain Structure and Function, 2021, 226, 2041-2055.	1.2	11
181	Role of the Extracellular Matrix in Alzheimer's Disease. Frontiers in Aging Neuroscience, 2021, 13, 707466.	1.7	44
182	Microglia as hackers of the matrix: sculpting synapses and the extracellular space. Cellular and Molecular Immunology, 2021, 18, 2472-2488.	4.8	61
183	Perineuronal net degradation rescues CA2 plasticity in a mouse model of Rett syndrome. Journal of Clinical Investigation, 2021, 131, .	3.9	35
184	Perineuronal net abnormalities in Slc13a4 mice are rescued by postnatal administration of N-acetylcysteine. Experimental Neurology, 2021, 342, 113734.	2.0	2

#	Article	IF	Citations
185	Effects of Early Life Stress on the Developing Basolateral Amygdala-Prefrontal Cortex Circuit: The Emerging Role of Local Inhibition and Perineuronal Nets. Frontiers in Human Neuroscience, 2021, 15, 669120.	1.0	29
186	Targeting Inhibitory Chondroitin Sulphate Proteoglycans to Promote Plasticity After Injury. Methods in Molecular Biology, 2014, 1162, 127-138.	0.4	12
187	The protein tyrosine phosphatase RPTPζ/phosphacan is critical for perineuronal net structure. Journal of Biological Chemistry, 2020, 295, 955-968.	1.6	14
189	Perineuronal Nets Play a Role in Regulating Striatal Function in the Mouse. PLoS ONE, 2012, 7, e32747.	1.1	32
190	N-Acetylgalactosamine Positive Perineuronal Nets in the Saccade-Related-Part of the Cerebellar Fastigial Nucleus Do Not Maintain Saccade Gain. PLoS ONE, 2014, 9, e86154.	1.1	4
191	Enriched Housing Enhances Recovery of Limb Placement Ability and Reduces Aggrecan-Containing Perineuronal Nets in the Rat Somatosensory Cortex after Experimental Stroke. PLoS ONE, 2014, 9, e93121.	1.1	62
192	A Sulfated Glycosaminoglycan Linkage Region Is a Novel Type of Human Natural Killer-1 (HNK-1) Epitope Expressed on Aggrecan in Perineuronal Nets. PLoS ONE, 2015, 10, e0144560.	1.1	20
193	Impaired Cognitive Function after Perineuronal Net Degradation in the Medial Prefrontal Cortex. ENeuro, 2018, 5, ENEURO.0253-18.2018.	0.9	24
194	The Absence of Brain-Specific Link Protein Bral2 in Perineuronal Nets Hampers Auditory Temporal Resolution and Neural Adaptation in Mice. Physiological Research, 2017, 66, 867-880.	0.4	11
195	Oligodendrocyte and Extracellular Matrix Contributions to Central Nervous System Motor Function: Implications for Dystonia. Movement Disorders, 2022, 37, 456-463.	2.2	9
196	Crossâ€hierarchical plasticity of corticofugal projections to dLGN after neonatal monocular enucleation. Journal of Comparative Neurology, 2022, 530, 978-997.	0.9	9
197	Enzymatic Degradation of Cortical Perineuronal Nets Reverses GABAergic Interneuron Maturation. Molecular Neurobiology, 2022, 59, 2874-2893.	1.9	12
198	Sensory Experience as a Regulator of Structural Plasticity in the Developing Whisker-to-Barrel System. Frontiers in Cellular Neuroscience, 2021, 15, 770453.	1.8	3
202	Non-Cell-Autonomous Factors Implicated in Parvalbumin Interneuron Maturation and Critical Periods. Frontiers in Neural Circuits, 2022, 16, .	1.4	13
203	Parvalbumin-Positive Interneurons Regulate Cortical Sensory Plasticity in Adulthood and Development Through Shared Mechanisms. Frontiers in Neural Circuits, 2022, 16, .	1.4	19
204	A comprehensive atlas of Aggrecan, Versican, Neurocan and Phosphacan expression across time in wildtype retina and in retinal degeneration. Scientific Reports, 2022, 12, 7282.	1.6	4
205	Regulation of perineuronal net components in the synaptic bouton vicinity on lumbar α-motoneurons in the rat after spinalization and locomotor training: New insights from spatio-temporal changes in gene, protein expression and WFA labeling. Experimental Neurology, 2022, 354, 114098.	2.0	4
206	Postnatal development of the microstructure of cortical GABAergic synapses and perineuronal nets requires sensory input. Neuroscience Research, 2022, , .	1.0	0

#	Article	IF	CITATIONS
207	Fingolimod increases parvalbumin-positive neurons in adult mice. IBRO Neuroscience Reports, 2022, 13, 96-106.	0.7	0
208	Perineuronal Nets: Subtle Structures with Large Implications. Neuroscientist, 2023, 29, 569-590.	2.6	11
209	Small sensory spinal lesions that affect hand function in monkeys greatly alter primary afferent and motor neuron connections in the cord. Journal of Comparative Neurology, 2022, 530, 3039-3055.	0.9	1
210	Adolescent Neurocognitive Development. , 2022, , .		0
211	Perineuronal nets: Cruise from a honeycomb to the safety nets. Brain Research Bulletin, 2022, 190, 179-194.	1.4	4
212	Altered Extracellular Matrix as an Alternative Risk Factor for Epileptogenicity in Brain Tumors. Biomedicines, 2022, 10, 2475.	1.4	3
213	A glial perspective on the extracellular matrix and perineuronal net remodeling in the central nervous system. Frontiers in Cellular Neuroscience, 0, 16, .	1.8	24
214	Chemistry and Function of Glycosaminoglycans in the Nervous System. Advances in Neurobiology, 2023, , 117-162.	1.3	6
215	Reduced expression of perineuronal nets in the normotopic somatosensory cortex of the tish rat. Brain Research, 2023, 1800, 148179.	1.1	0
216	Extracellular matrix and synapse formation. Bioscience Reports, 2023, 43, .	1.1	8
217	Component-specific reduction in perineuronal nets in senescence-accelerated mouse strains. IBRO Neuroscience Reports, 2023, 14, 111-121.	0.7	3
218	Regulation of the E/I-balance by the neural matrisome. Frontiers in Molecular Neuroscience, 0, 16, .	1.4	3