Jessica C F Kwok

List of Publications by Citations

48 papers	2,672 citations	24 h-index	51 g-index
57 ext. papers	3,235 ext. citations	5.8 avg, IF	5.12 L-index

#	Paper	IF	Citations
48	Animals lacking link protein have attenuated perineuronal nets and persistent plasticity. *Brain*, **2010**, 133, 2331-47	11.2	329
47	Extracellular matrix and perineuronal nets in CNS repair. *Developmental Neurobiology*, **2011**, 71, 1073-89	3.2	287
46	The relationship between glial cell mechanosensitivity and foreign body reactions in the central nervous system. *Biomaterials*, **2014**, 35, 3919-25	15.6	231
45	Casting a Wide Net: Role of Perineuronal Nets in Neural Plasticity. *Journal of Neuroscience*, **2016**, 36, 11459-11468	6.6	218
44	Distribution and synthesis of extracellular matrix proteoglycans, hyaluronan, link proteins and tenascin-R in the rat spinal cord. *European Journal of Neuroscience*, **2008**, 27, 1373-90	3.5	143
43	Proteoglycans in the central nervous system: plasticity, regeneration and their stimulation with chondroitinase ABC. *Restorative Neurology and Neuroscience*, **2008**, 26, 131-45	2.8	132
42	Integrin activation promotes axon growth on inhibitory chondroitin sulfate proteoglycans by enhancing integrin signaling. *Journal of Neuroscience*, **2011**, 31, 6289-95	6.6	120
41	In vitro modeling of perineuronal nets: hyaluronan synthase and link protein are necessary for their formation and integrity. *Journal of Neurochemistry*, **2010**, 114, 1447-59	6	102
40	Semaphorin 3A binds to the perineuronal nets via chondroitin sulfate type E motifs in rodent brains. *Journal of Biological Chemistry*, **2013**, 288, 27384-27395	5.4	94
39	Chondroitin sulfate: a key molecule in the brain matrix. *International Journal of Biochemistry and Cell Biology*, **2012**, 44, 582-6	5.6	91
38	The chemorepulsive axon guidance protein semaphorin3A is a constituent of perineuronal nets in the adult rodent brain. *Molecular and Cellular Neurosciences*, **2013**, 56, 186-200	4.8	86
37	6-Sulphated chondroitins have a positive influence on axonal regeneration. *PLoS ONE*, **2011**, 6, e21499	3.7	83
36	"GAG-ing with the neuron": The role of glycosaminoglycan patterning in the central nervous system. *Experimental Neurology*, **2015**, 274, 100-14	5.7	77
35	Schwann cell migration is integrin-dependent and inhibited by astrocyte-produced aggrecan. *Glia*, **2010**, 58, 857-69	9	73
34	Chondroitinase ABC has a long-lasting effect on chondroitin sulphate glycosaminoglycan content in the injured rat brain. *Journal of Neurochemistry*, **2008**, 104, 400-8	6	68
33	Brain ageing changes proteoglycan sulfation, rendering perineuronal nets more inhibitory. *Aging*, **2017**, 9, 1607-1622	5.6	64
32	Selective rab11 transport and the intrinsic regenerative ability of CNS axons. *ELife*, **2017**, 6,	8.9	44

31	Kindlin-1 enhances axon growth on inhibitory chondroitin sulfate proteoglycans and promotes sensory axon regeneration. *Journal of Neuroscience*, **2012**, 32, 7325-35	6.6	44
30	Effects of digesting chondroitin sulfate proteoglycans on plasticity in cat primary visual cortex. *Journal of Neuroscience*, **2013**, 33, 234-43	6.6	41
29	Role of extracellular factors in axon regeneration in the CNS: implications for therapy. *Regenerative Medicine*, **2008**, 3, 907-23	2.5	41
28	A Sweet Talk: The Molecular Systems of Perineuronal Nets in Controlling Neuronal Communication. *Frontiers in Integrative Neuroscience*, **2017**, 11, 33	3.2	36
27	Antibody recognizing 4-sulfated chondroitin sulfate proteoglycans restores memory in tauopathy-induced neurodegeneration. *Neurobiology of Aging*, **2017**, 59, 197-209	5.6	33
26	Glycosaminoglycans in extracellular matrix organisation: are concepts from soft matter physics key to understanding the formation of perineuronal nets?. *Current Opinion in Structural Biology*, **2018**, 50, 65-74	8.1	32
25	Glycosaminoglycans and glycomimetics in the central nervous system. *Molecules*, **2015**, 20, 3527-48	4.8	22
24	Neural ECM in regeneration and rehabilitation. *Progress in Brain Research*, **2014**, 214, 179-92	2.9	20
23	Full length talin stimulates integrin activation and axon regeneration. *Molecular and Cellular Neurosciences*, **2015**, 68, 1-8	4.8	16
22	Perineuronal Nets in Spinal Motoneurones: Chondroitin Sulphate Proteoglycan around Alpha Motoneurones. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	14
21	A Method for the Isolation and Culture of Adult Rat Retinal Pigment Epithelial (RPE) Cells to Study Retinal Diseases. *Frontiers in Cellular Neuroscience*, **2015**, 9, 449	6.1	12
20	Neuronal Pentraxin 2 Binds PNNs and Enhances PNN Formation. *Neural Plasticity*, **2019**, 2019, 6804575	3.3	10
19	Systemic α-synuclein injection triggers selective neuronal pathology as seen in patients with Parkinson's disease. *Molecular Psychiatry*, **2021**, 26, 556-567	15.1	10
18	The potential of memory enhancement through modulation of perineuronal nets. *British Journal of Pharmacology*, **2019**, 176, 3611-3621	8.6	9
17	Chondroitin sulfates in the developing rat hindbrain confine commissural projections of vestibular nuclear neurons. *Neural Development*, **2012**, 7, 6	3.9	9
16	Targeting inhibitory chondroitin sulphate proteoglycans to promote plasticity after injury. *Methods in Molecular Biology*, **2014**, 1162, 127-38	1.4	8
15	MiR-29 coordinates age-dependent plasticity brakes in the adult visual cortex. *EMBO Reports*, **2020**, 21, e50431	6.5	7
14	Secretion of a mammalian chondroitinase ABC aids glial integration at PNS/CNS boundaries. *Scientific Reports*, **2020**, 10, 11262	4.9	6

13	Transplantation of Neural Precursors Derived from Induced Pluripotent Cells Preserve Perineuronal Nets and Stimulate Neural Plasticity in ALS Rats. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	5
12	The Extracellular Matrix in the Nervous System: The Good and the Bad Aspects **2016**,		5
11	Perineuronal Nets: A Special Structure in the Central Nervous System Extracellular Matrix. *Neuromethods*, **2015**, 23-32	0.4	4
10	Chondroitin 6-sulphate is required for neuroplasticity and memory in ageing. *Molecular Psychiatry*, **2021**,	15.1	4
9	Oral treatment of 4-methylumbelliferone reduced perineuronal nets and improved recognition memory in mice.. *Brain Research Bulletin*, **2022**,	3.9	3
8	Semaphorin 3A binding to chondroitin sulfate E enhances the biological activity of the protein, and cross-links and rigidifies glycosaminoglycan matrices		3
7	Oxygen transport kinetics underpin rapid and robust diaphragm recovery following chronic spinal cord injury. *Journal of Physiology*, **2021**, 599, 1199-1224	3.9	3
6	Chondroitin Sulfates in Axon Regeneration and Plasticity. *Trends in Glycoscience and Glycotechnology*, **2011**, 23, 201-211	0.1	2
5	Long-Term Cultures of Spinal Cord Interneurons.. *Frontiers in Cellular Neuroscience*, **2022**, 16, 827628	6.1	1
4	Visualization of Perineuronal Nets in Central Nervous System Tissue Sections. *Methods in Molecular Biology*, **2020**, 2043, 251-260	1.4	1
3	Restoring the pattern of proteoglycan sulphation in perineuronal nets corrects age-related memory loss		1
2	Transvascular delivery of synuclein preformed fibrils, using the RVG9R delivery system, generates synuclein pathology in the duodenal myenteric plexus of non-transgenic rats. *Molecular Psychiatry*, **2021**, 26, 365-365	15.1	1
1	Substrate Specificity and Biochemical Characteristics of an Engineered Mammalian Chondroitinase ABC. *ACS Omega*, **2021**, 6, 11223-11230	3.9	