Michel Khrestchatisky

List of Publications by Year in Descending Order

67 papers	3,833 citations	33 h-index	61 g-index
69 ext. papers	4,377 ext. citations	5.6 avg, IF	5.04 L-index

#	Paper	IF	Citations
67	MT5-MMP promotes neuroinflammation, neuronal excitability and A production in primary neuron/astrocyte cultures from the 5xFAD mouse model of Alzheimer's disease.. *Journal of Neuroinflammation*, **2022**, 19, 65	10.1	1
66	The Helico Maze allows testing of early learning and subcategories of long-term memory in mice. *Behavioural Brain Research*, **2021**, 406, 113242	3.4	1
65	MT5-MMP controls APP and CTF/C99 metabolism through proteolytic-dependent and -independent mechanisms relevant for Alzheimer's disease. *FASEB Journal*, **2021**, 35, e21727	0.9	2
64	Neurotensin receptor 2 is induced in astrocytes and brain endothelial cells in relation to neuroinflammation following pilocarpine-induced seizures in rats. *Glia*, **2021**, 69, 2618-2643	9	1
63	The actin binding protein actinin-2 expression is associated with dendritic spine plasticity and migrating granule cells in the rat dentate gyrus following pilocarpine-induced seizures. *Experimental Neurology*, **2021**, 335, 113512	5.7	3
62	LDL receptor-peptide conjugate as in vivo tool for specific targeting of pancreatic ductal adenocarcinoma. *Communications Biology*, **2021**, 4, 987	6.7	0
61	Metalloproteinases and their tissue inhibitors in Alzheimer's disease and other neurodegenerative disorders. *Cellular and Molecular Life Sciences*, **2019**, 76, 3167-3191	10.3	41
60	High levels of serum soluble TWEAK are associated with neuroinflammation during multiple sclerosis. *Journal of Translational Medicine*, **2019**, 17, 51	8.5	7
59	Long-Term Pantethine Treatment Counteracts Pathologic Gene Dysregulation and Decreases Alzheimer's Disease Pathogenesis in a Transgenic Mouse Model. *Neurotherapeutics*, **2019**, 16, 1237-1254	6.4	3
58	Proamyloidogenic effects of membrane type 1 matrix metalloproteinase involve MMP-2 and BACE-1 activities, and the modulation of APP trafficking. *FASEB Journal*, **2019**, 33, 2910-2927	0.9	15
57	Grafts of Olfactory Stem Cells Restore Breathing and Motor Functions after Rat Spinal Cord Injury. *Journal of Neurotrauma*, **2018**, 35, 1765-1780	5.4	10
56	Isolation and characterization of olfactory ecto-mesenchymal stem cells from eight mammalian genera. *BMC Veterinary Research*, **2018**, 14, 17	2.7	15
55	Identification and characterization of highly versatile peptide-vectors that bind non-competitively to the low-density lipoprotein receptor for in vivo targeting and delivery of small molecules and protein cargos. *PLoS ONE*, **2018**, 13, e0191052	3.7	4
54	Syngeneic Transplantation of Olfactory Ectomesenchymal Stem Cells Restores Learning and Memory Abilities in a Rat Model of Global Cerebral Ischemia. *Stem Cells International*, **2018**, 2018, 2683989	5	6
53	Use of LDL receptor-targeting peptide vectors for and cargo transport across the blood-brain barrier. *FASEB Journal*, **2017**, 31, 1807-1827	0.9	45
52	Global cerebral ischemia in rats leads to amnesia due to selective neuronal death followed by astroglial scar formation in the CA1 layer. *Neurobiology of Learning and Memory*, **2017**, 141, 168-178	3.1	10
51	From Blood to Lesioned Brain: An In Vitro Study on Migration Mechanisms of Human Nasal Olfactory Stem Cells. *Stem Cells International*, **2017**, 2017, 1478606	5	13

50	Identification of LRP-1 as an endocytosis and recycling receptor for β1-integrin in thyroid cancer cells. *Oncotarget*, **2017**, 8, 78614-78632	3.3	15
49	MT5-MMP is a new pro-amyloidogenic proteinase that promotes amyloid pathology and cognitive decline in a transgenic mouse model of Alzheimer's disease. *Cellular and Molecular Life Sciences*, **2016**, 73, 217-36	10.3	68
48	The FVB/N mice: A well suited strain to study learning and memory processes using olfactory cues. *Behavioural Brain Research*, **2016**, 296, 254-259	3.4	6
47	MT5-MMP Promotes Alzheimer's Pathogenesis in the Frontal Cortex of 5xFAD Mice and APP Trafficking. *Frontiers in Molecular Neuroscience*, **2016**, 9, 163	6.1	21
46	MT5-MMP, just a new APP processing proteinase in Alzheimer's disease?. *Journal of Neuroinflammation*, **2016**, 13, 167	10.1	16
45	Gene expression comparison reveals distinct basal expression of HOX members and differential TNF-induced response between brain- and spinal cord-derived microvascular endothelial cells. *Journal of Neuroinflammation*, **2016**, 13, 290	10.1	10
44	Optimization and in Vivo Validation of Peptide Vectors Targeting the LDL Receptor. *Molecular Pharmaceutics*, **2016**, 13, 4094-4105	5.6	8
43	Cholecalciferol (vitamin D3) improves functional recovery when delivered during the acute phase after a spinal cord trauma. *Journal of Steroid Biochemistry and Molecular Biology*, **2015**, 154, 23-31	5.1	13
42	Onset of hippocampus-dependent memory impairments in 5XFAD transgenic mouse model of Alzheimer's disease. *Hippocampus*, **2014**, 24, 762-72	3.5	55
41	Setting-up an in vitro model of rat blood-brain barrier (BBB): a focus on BBB impermeability and receptor-mediated transport. *Journal of Visualized Experiments*, **2014**, e51278	1.6	31
40	Low-density lipoprotein receptor-related protein-1 mediates endocytic clearance of tissue inhibitor of metalloproteinases-1 and promotes its cytokine-like activities. *PLoS ONE*, **2014**, 9, e103839	3.7	24
39	Differential spatio-temporal regulation of MMPs in the 5xFAD mouse model of Alzheimer's disease: evidence for a pro-amyloidogenic role of MT1-MMP. *Frontiers in Aging Neuroscience*, **2014**, 6, 247	5.3	45
38	Tissue inhibitor of matrix metalloproteinases-1 loaded poly(lactic-co-glycolic acid) nanoparticles for delivery across the blood-brain barrier. *International Journal of Nanomedicine*, **2014**, 9, 575-88	7.3	40
37	Endogenous and synthetic MMP inhibitors in CNS physiopathology. *Progress in Brain Research*, **2014**, 214, 313-51	2.9	28
36	Temporal gene profiling of the 5XFAD transgenic mouse model highlights the importance of microglial activation in Alzheimer's disease. *Molecular Neurodegeneration*, **2014**, 9, 33	19	88
35	A unique method for the isolation of nasal olfactory stem cells in living rats. *Stem Cell Research*, **2014**, 12, 673-9	1.6	19
34	Medicinal chemistry based approaches and nanotechnology-based systems to improve CNS drug targeting and delivery. *Medicinal Research Reviews*, **2013**, 33, 457-516	14.4	56
33	TWEAK/Fn14 pathway modulates properties of a human microvascular endothelial cell model of blood brain barrier. *Journal of Neuroinflammation*, **2013**, 10, 9	10.1	44

32	Role of matrix metalloproteinases in migration and neurotrophic properties of nasal olfactory stem and ensheathing cells. *Cell Transplantation*, **2013**, 22, 993-1010	4	34
31	Evidence for early cognitive impairment related to frontal cortex in the 5XFAD mouse model of Alzheimer's disease. *Journal of Alzheimer's Disease*, **2013**, 33, 781-96	4.3	58
30	Area-specific alterations of synaptic plasticity in the 5XFAD mouse model of Alzheimer's disease: dissociation between somatosensory cortex and hippocampus. *PLoS ONE*, **2013**, 8, e74667	3.7	53
29	Cholecalciferol (vitamin D) improves myelination and recovery after nerve injury. *PLoS ONE*, **2013**, 8, e65034	3.7	83
28	Can the benefits of cannabinoid receptor stimulation on neuroinflammation, neurogenesis and memory during normal aging be useful in AD prevention?. *Journal of Neuroinflammation*, **2012**, 9, 10	10.1	11
27	Drebrin A expression is altered after pilocarpine-induced seizures: time course of changes is consistent for a role in the integrity and stability of dendritic spines of hippocampal granule cells. *Hippocampus*, **2012**, 22, 477-93	3.5	12
26	LRP-1--CD44, a new cell surface complex regulating tumor cell adhesion. *Molecular and Cellular Biology*, **2012**, 32, 3293-307	4.8	33
25	Chemical optimization of new ligands of the low-density lipoprotein receptor as potential vectors for central nervous system targeting. *Journal of Medicinal Chemistry*, **2012**, 55, 2227-41	8.3	53
24	The potential role of metalloproteinases in neurogenesis in the gerbil hippocampus following global forebrain ischemia. *PLoS ONE*, **2011**, 6, e22465	3.7	26
23	Trafficking and secretion of matrix metalloproteinase-2 in olfactory ensheathing glial cells: A role in cell migration?. *Glia*, **2011**, 59, 750-70	9	32
22	Engraftment of human nasal olfactory stem cells restores neuroplasticity in mice with hippocampal lesions. *Journal of Clinical Investigation*, **2011**, 121, 2808-20	15.9	84
21	Olfactory stem cells, a new cellular model for studying molecular mechanisms underlying familial dysautonomia. *PLoS ONE*, **2010**, 5, e15590	3.7	40
20	RAGE-TXNIP axis is required for S100B-promoted Schwann cell migration, fibronectin expression and cytokine secretion. *Journal of Cell Science*, **2010**, 123, 4332-9	5.3	63
19	Metzincin proteases and their inhibitors: foes or friends in nervous system physiology?. *Journal of Neuroscience*, **2010**, 30, 15337-57	6.6	172
18	Mapping of domains on HIV envelope protein mediating association with calnexin and protein-disulfide isomerase. *Journal of Biological Chemistry*, **2010**, 285, 13788-96	5.4	10
17	The human nose harbors a niche of olfactory ectomesenchymal stem cells displaying neurogenic and osteogenic properties. *Stem Cells and Development*, **2010**, 19, 853-66	4.4	164
16	Severity of experimental autoimmune encephalomyelitis is unexpectedly reduced in mice born to vitamin D-deficient mothers. *Journal of Steroid Biochemistry and Molecular Biology*, **2010**, 121, 250-3	5.1	40
15	Developmental vitamin D deficiency alters learning in C57Bl/6J mice. *Behavioural Brain Research*, **2010**, 208, 603-8	3.4	52

14	Differential vesicular distribution and trafficking of MMP-2, MMP-9, and their inhibitors in astrocytes. *Glia*, **2010**, 58, 344-66	9	90
13	Synthetic therapeutic peptides: science and market. *Drug Discovery Today*, **2010**, 15, 40-56	8.8	1014
12	Resuscitation of newborn piglets. short-term influence of FiO2 on matrix metalloproteinases, caspase-3 and BDNF. *PLoS ONE*, **2010**, 5, e14261	3.7	17
11	TWEAK is expressed at the cell surface of monocytes during multiple sclerosis. *Journal of Leukocyte Biology*, **2009**, 85, 132-5	6.5	32
10	A new role for TIMP-1 in modulating neurite outgrowth and morphology of cortical neurons. *PLoS ONE*, **2009**, 4, e8289	3.7	46
9	Vesicular trafficking and secretion of matrix metalloproteinases-2, -9 and tissue inhibitor of metalloproteinases-1 in neuronal cells. *Molecular and Cellular Neurosciences*, **2008**, 39, 549-68	4.8	78
8	Vitamin D2 potentiates axon regeneration. *Journal of Neurotrauma*, **2008**, 25, 1247-56	5.4	74
7	Matrix metalloproteinase-2 (MMP-2) regulates astrocyte motility in connection with the actin cytoskeleton and integrins. *Glia*, **2006**, 54, 272-84	9	96
6	Tissue inhibitor of metalloproteinases-1 (TIMP-1) modulates neuronal death, axonal plasticity, and learning and memory. *European Journal of Neuroscience*, **2005**, 22, 2569-78	3.5	62
5	Astrocyte reactivity to Fas activation is attenuated in TIMP-1 deficient mice, an in vitro study. *BMC Neuroscience*, **2005**, 6, 68	3.2	20
4	Neuronal activity-dependent increase of net matrix metalloproteinase activity is associated with MMP-9 neurotoxicity after kainate. *European Journal of Neuroscience*, **2003**, 18, 1507-17	3.5	147
3	TWEAK is expressed by glial cells, induces astrocyte proliferation and increases EAE severity. *Journal of Neuroimmunology*, **2002**, 133, 116-23	3.5	112
2	Gelatinase B and TIMP-1 are regulated in a cell- and time-dependent manner in association with neuronal death and glial reactivity after global forebrain ischemia. *European Journal of Neuroscience*, **2002**, 15, 19-32	3.5	120
1	Tissue inhibitor of metalloproteinases-1 (TIMP-1) is differentially induced in neurons and astrocytes after seizures: evidence for developmental, immediate early gene, and lesion response. *Journal of Neuroscience*, **1997**, 17, 4223-35	6.6	125