

Michael Willem

List of Publications by Year in descending order

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57
papers

7,335
citations

87888

38
h-index

149698

56
g-index

57
all docs

57
docs citations

57
times ranked

9706
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of Peripheral Nerve Myelination by the γ -Secretase BACE1. <i>Science</i> , 2006, 314, 664-666.	12.6	652
2	TREM2 mutations implicated in neurodegeneration impair cell surface transport and phagocytosis. <i>Science Translational Medicine</i> , 2014, 6, 243ra86.	12.4	600
3	A β -secretase inhibitor blocks Notch signaling <i>in vivo</i> and causes a severe neurogenic phenotype in zebrafish. <i>EMBO Reports</i> , 2002, 3, 688-694.	4.5	459
4	Migratory Activity and Functional Changes of Green Fluorescent Effector Cells before and during Experimental Autoimmune Encephalomyelitis. <i>Immunity</i> , 2001, 14, 547-560.	14.3	428
5	Loss of TREM2 function increases amyloid seeding but reduces plaque-associated ApoE. <i>Nature Neuroscience</i> , 2019, 22, 191-204.	14.8	358
6	The β -Secretase BACE1 in Alzheimer's Disease. <i>Biological Psychiatry</i> , 2021, 89, 745-756.	1.3	336
7	β -Secretase processing of APP inhibits neuronal activity in the hippocampus. <i>Nature</i> , 2015, 526, 443-447.	27.8	308
8	Secretome protein enrichment identifies physiological BACE1 protease substrates in neurons. <i>EMBO Journal</i> , 2012, 31, 3157-3168.	7.8	279
9	Mitochondrion-Derived Reactive Oxygen Species Lead to Enhanced Amyloid Beta Formation. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 1421-1433.	5.4	273
10	A Critical Function of the Pial Basement Membrane in Cortical Histogenesis. <i>Journal of Neuroscience</i> , 2002, 22, 6029-6040.	3.6	261
11	Phosphorylation Regulates Intracellular Trafficking of β -Secretase. <i>Journal of Biological Chemistry</i> , 2001, 276, 14634-14641.	3.4	248
12	Maturation and Pro-peptide Cleavage of β -Secretase. <i>Journal of Biological Chemistry</i> , 2000, 275, 30849-30854.	3.4	229
13	Insulin-degrading Enzyme Rapidly Removes the β -Amyloid Precursor Protein Intracellular Domain (AICD). <i>Journal of Biological Chemistry</i> , 2002, 277, 13389-13393.	3.4	185
14	Enhancing protective microglial activities with a dual function β -TREM2 antibody to the stalk region. <i>EMBO Molecular Medicine</i> , 2020, 12, e11227.	6.9	155
15	Gene transfer into CD4+ T lymphocytes: Green fluorescent protein-engineered, encephalitogenic T cells illuminate brain autoimmune responses. <i>Nature Medicine</i> , 1999, 5, 843-847.	30.7	135
16	Amyloid Precursor Protein and Notch Intracellular Domains are Generated after Transport of their Precursors to the Cell Surface. <i>Traffic</i> , 2006, 7, 408-415.	2.7	133
17	Young microglia restore amyloid plaque clearance of aged microglia. <i>EMBO Journal</i> , 2017, 36, 583-603.	7.8	124
18	Bace1 and Neuregulin-1 cooperate to control formation and maintenance of muscle spindles. <i>EMBO Journal</i> , 2013, 32, 2015-2028.	7.8	122

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19	Rescue of Progranulin Deficiency Associated with Frontotemporal Lobar Degeneration by Alkalizing Reagents and Inhibition of Vacuolar ATPase. <i>Journal of Neuroscience</i> , 2011, 31, 1885-1894.	3.6	121
20	Microglial activation states drive glucose uptake and FDG-PET alterations in neurodegenerative diseases. <i>Science Translational Medicine</i> , 2021, 13, eabe5640.	12.4	108
21	Postnatal Disruption of the Disintegrin/Metalloproteinase ADAM10 in Brain Causes Epileptic Seizures, Learning Deficits, Altered Spine Morphology, and Defective Synaptic Functions. <i>Journal of Neuroscience</i> , 2013, 33, 12915-12928.	3.6	107
22	PPAR β Co-Activator-1 α (PGC-1 α) Reduces Amyloid- β Generation Through a PPAR β -Dependent Mechanism. <i>Journal of Alzheimer's Disease</i> , 2011, 25, 151-162.	2.6	104
23	Dual Cleavage of Neuregulin 1 Type III by BACE1 and ADAM17 Liberates Its EGF-Like Domain and Allows Paracrine Signaling. <i>Journal of Neuroscience</i> , 2013, 33, 7856-7869.	3.6	104
24	Dimerization of β -Site β -Amyloid Precursor Protein-cleaving Enzyme. <i>Journal of Biological Chemistry</i> , 2004, 279, 53205-53212.	3.4	103
25	A non-amyloidogenic function of BACE α 2 in the secretory pathway. <i>Journal of Neurochemistry</i> , 2002, 81, 1011-1020.	3.9	99
26	Absence of β 7 integrin in dystrophin-deficient mice causes a myopathy similar to Duchenne muscular dystrophy. <i>Human Molecular Genetics</i> , 2006, 15, 989-998.	2.9	97
27	Specific Inhibition of β -Secretase Processing of the Alzheimer Disease Amyloid Precursor Protein. <i>Cell Reports</i> , 2016, 14, 2127-2141.	6.4	87
28	Fibrillar A β triggers microglial proteome alterations and dysfunction in Alzheimer mouse models. <i>ELife</i> , 2020, 9, .	6.0	80
29	A β -induced acceleration of Alzheimer-related τ -pathology spreading and its association with prion protein. <i>Acta Neuropathologica</i> , 2019, 138, 913-941.	7.7	75
30	Function, regulation and therapeutic properties of β -secretase (BACE1). <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 175-182.	5.0	73
31	Bace1 processing of NRG1 type III produces a myelin-inducing signal but is not essential for the stimulation of myelination. <i>Glia</i> , 2012, 60, 203-217.	4.9	73
32	Basement Membrane-Dependent Survival of Retinal Ganglion Cells. , 2005, 46, 1000.		70
33	Translational Repression of the Disintegrin and Metalloprotease ADAM10 by a Stable G-quadruplex Secondary Structure in Its 5'-Untranslated Region. <i>Journal of Biological Chemistry</i> , 2011, 286, 45063-45072.	3.4	68
34	Constitutive properties, not molecular adaptations, mediate extraocular muscle sparing in dystrophicmdxmice. <i>FASEB Journal</i> , 2003, 17, 1-27.	0.5	66
35	Identification of a β -Secretase Activity, Which Truncates Amyloid β -Peptide after Its Presenilin-dependent Generation. <i>Journal of Biological Chemistry</i> , 2003, 278, 5531-5538.	3.4	62
36	BACE1 Dependent Neuregulin Processing: Review. <i>Current Alzheimer Research</i> , 2012, 9, 178-183.	1.4	62

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37	Amyloid precursor protein intracellular domain modulates cellular calcium homeostasis and ATP content. <i>Journal of Neurochemistry</i> , 2007, 102, 1264-1275.	3.9	56
38	Loss of Bace2 in zebrafish affects melanocyte migration and is distinct from Bace1 knock out phenotypes. <i>Journal of Neurochemistry</i> , 2013, 127, 471-481.	3.9	56
39	Defective integrin switch and matrix composition at alpha 7-deficient myotendinous junctions precede the onset of muscular dystrophy in mice. <i>Human Molecular Genetics</i> , 2003, 12, 483-495.	2.9	42
40	Proteolytic Processing of Neuregulin 1 Type III by Three Intramembrane-cleaving Proteases. <i>Journal of Biological Chemistry</i> , 2016, 291, 318-333.	3.4	42
41	Proteolytic processing of Neuregulin-1. <i>Brain Research Bulletin</i> , 2016, 126, 178-182.	3.0	37
42	Physiological and pathophysiological control of synaptic GluN2B-NMDA receptors by the C-terminal domain of amyloid precursor protein. <i>ELife</i> , 2017, 6, .	6.0	29
43	Tetraspanin 3: A central endocytic membrane component regulating the expression of ADAM10, presenilin and the amyloid precursor protein. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 217-230.	4.1	26
44	Novel App knock-in mouse model shows key features of amyloid pathology and reveals profound metabolic dysregulation of microglia. <i>Molecular Neurodegeneration</i> , 2022, 17, .	10.8	26
45	Macrocyclic Statine-Based Inhibitors of BACE1. <i>ChemBioChem</i> , 2007, 8, 2078-2091.	2.6	22
46	Efficacy of chronic BACE1 inhibition in PS2APP mice depends on the regional A β 2 deposition rate and plaque burden at treatment initiation. <i>Theranostics</i> , 2018, 8, 4957-4968.	10.0	22
47	Asymmetry of Fibrillar Plaque Burden in Amyloid Mouse Models. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1825-1831.	5.0	19
48	Transgenic Overexpression of the Disordered Prion Protein N1 Fragment in Mice Does Not Protect Against Neurodegenerative Diseases Due to Impaired ER Translocation. <i>Molecular Neurobiology</i> , 2020, 57, 2812-2829.	4.0	17
49	Microglial activation in the right amygdala-entorhinal-hippocampal complex is associated with preserved spatial learning in App mice. <i>NeuroImage</i> , 2021, 230, 117707.	4.2	16
50	Secreted APP Modulates Synaptic Activity: A Novel Target for Therapeutic Intervention?. <i>Neuron</i> , 2019, 101, 557-559.	8.1	14
51	Glitter in the Darkness? Nonfibrillar A β 2-Amyloid Plaque Components Significantly Impact the A β 2-Amyloid PET Signal in Mouse Models of Alzheimer Disease. <i>Journal of Nuclear Medicine</i> , 2022, 63, 117-124.	5.0	14
52	Pre-therapeutic microglia activation and sex determine therapy effects of chronic immunomodulation. <i>Theranostics</i> , 2021, 11, 8964-8976.	10.0	12
53	Amyloid precursor protein-fragments-containing inclusions in cardiomyocytes with basophilic degeneration and its association with cerebral amyloid angiopathy and myocardial fibrosis. <i>Scientific Reports</i> , 2018, 8, 16594.	3.3	11
54	Destruxin E Decreases Beta-Amyloid Generation by Reducing Colocalization of Beta-Amyloid-Cleaving Enzyme 1 and Beta-Amyloid Protein Precursor. <i>Neurodegenerative Diseases</i> , 2009, 6, 230-239.	1.4	9

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55	Lack of β -amyloid cleaving enzyme-1 (BACE1) impairs long-term synaptic plasticity but enhances granule cell excitability and oscillatory activity in the dentate gyrus in vivo. <i>Brain Structure and Function</i> , 2019, 224, 1279-1290.	2.3	9
56	A molecular view of human amyloid- β folds. <i>Science</i> , 2022, 375, 147-148.	12.6	7
57	Chronic PPAR γ Stimulation Shifts Amyloidosis to Higher Fibrillarity but Improves Cognition. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 854031.	3.4	5