

# William L Klein

## List of Publications by Year in descending order

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44  
papers

8,259  
citations

159585

30  
h-index

276875

41  
g-index

46  
all docs

46  
docs citations

46  
times ranked

9393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alzheimer's disease-affected brain: Presence of oligomeric A $\beta$ ligands (ADDLs) suggests a molecular basis for reversible memory loss. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10417-10422.	7.1	995
2	Synaptic Targeting by Alzheimer's-Related Amyloid $\beta$ Oligomers. <i>Journal of Neuroscience</i> , 2004, 24, 10191-10200.	3.6	905
3	Nanoparticle-based detection in cerebral spinal fluid of a soluble pathogenic biomarker for Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2273-2276.	7.1	790
4	Modeling Alzheimer's Disease with iPSCs Reveals Stress Phenotypes Associated with Intracellular A $\beta$ and Differential Drug Responsiveness. <i>Cell Stem Cell</i> , 2013, 12, 487-496.	11.1	652
5	The Amyloid- $\beta$ Oligomer Hypothesis: Beginning of the Third Decade. <i>Journal of Alzheimer's Disease</i> , 2018, 64, S567-S610.	2.6	572
6	Self-Assembly of A $\beta$ into Globular Neurotoxins. <i>Biochemistry</i> , 2003, 42, 12749-12760.	2.5	511
7	Amyloid $\beta$ oligomers in Alzheimer's disease pathogenesis, treatment, and diagnosis. <i>Acta Neuropathologica</i> , 2015, 129, 183-206.	7.7	490
8	Alzheimer's disease-type neuronal tau hyperphosphorylation induced by A $\beta$ oligomers. <i>Neurobiology of Aging</i> , 2008, 29, 1334-1347.	3.1	386
9	A Mouse Model of Amyloid $\beta$ Oligomers: Their Contribution to Synaptic Alteration, Abnormal Tau Phosphorylation, Glial Activation, and Neuronal Loss <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2010, 30, 4845-4856.	3.6	348
10	Temporal Profile of Amyloid- $\beta$ (A $\beta$ ) Oligomerization in an <i>In Vivo</i> Model of Alzheimer Disease. <i>Journal of Biological Chemistry</i> , 2006, 281, 1599-1604.	3.4	342
11	Vaccination with soluble A $\beta$ oligomers generates toxicity-neutralizing antibodies. <i>Journal of Neurochemistry</i> , 2001, 79, 595-605.	3.9	309
12	Monoclonal antibodies that target pathological assemblies of A $\beta$ . <i>Journal of Neurochemistry</i> , 2007, 100, 23-35.	3.9	308
13	Alzheimer's Disease-Like Pathology Induced by Amyloid- $\beta$ Oligomers in Nonhuman Primates. <i>Journal of Neuroscience</i> , 2014, 34, 13629-13643.	3.6	189
14	The diabetes drug liraglutide reverses cognitive impairment in mice and attenuates insulin receptor and synaptic pathology in a non-human primate model of Alzheimer's disease. <i>Journal of Pathology</i> , 2018, 245, 85-100.	4.5	180
15	Synaptotoxic Amyloid- $\beta$ Oligomers: A Molecular Basis for the Cause, Diagnosis, and Treatment of Alzheimer's Disease?. <i>Journal of Alzheimer's Disease</i> , 2012, 33, S49-S65.	2.6	112
16	Synaptic targeting by A $\beta$ oligomers (ADDLS) as a basis for memory loss in early Alzheimer's disease. , 2006, 2, 43-55.		103
17	Rifampicin is a candidate preventive medicine against amyloid- $\beta$ and tau oligomers. <i>Brain</i> , 2016, 139, 1568-1586.	7.6	96
18	Different $\beta$ -amyloid oligomer assemblies in Alzheimer brains correlate with age of disease onset and impaired cholinergic activity. <i>Neurobiology of Aging</i> , 2012, 33, 825.e1-825.e13.	3.1	86

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19	Amyloid- $\beta^2$ and Tau Pathology of Alzheimer's Disease Induced by Diabetes in a Rabbit Animal Model. <i>Journal of Alzheimer's Disease</i> , 2012, 32, 291-305.	2.6	81
20	Iron Levels Modulate $\beta$ -Secretase Cleavage of Amyloid Precursor Protein. <i>Journal of Neurochemistry</i> , 1995, 64, 307-315.	3.9	80
21	Femtomole Immunodetection of Synthetic and Endogenous Amyloid- $\beta^2$ Oligomers and Its Application to Alzheimer's Disease Drug Candidate Screening. <i>Journal of Molecular Neuroscience</i> , 2003, 20, 305-314.	2.3	77
22	Inhibition of Choline Acetyltransferase as a Mechanism for Cholinergic Dysfunction Induced by Amyloid- $\beta^2$ Peptide Oligomers. <i>Journal of Biological Chemistry</i> , 2012, 287, 19377-19385.	3.4	77
23	Early intraneuronal amyloid triggers neuron-derived inflammatory signaling in APP transgenic rats and human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6844-6854.	7.1	62
24	Amyloid Beta Oligomers Target to Extracellular and Intracellular Neuronal Synaptic Proteins in Alzheimer's Disease. <i>Frontiers in Neurology</i> , 2019, 10, 1140.	2.4	46
25	Phosphorylated Tau Epitope of Alzheimer's Disease Is Coupled to Axon Development in the Avian Central Nervous System. <i>Experimental Neurology</i> , 1993, 120, 106-113.	4.1	45
26	Altered succinylation of mitochondrial proteins, APP and tau in Alzheimer's disease. <i>Nature Communications</i> , 2022, 13, 159.	12.8	42
27	Receptor-Mediated Increases in Phosphatidylinositol Turnover in Neuron-Like Cell Lines. <i>Journal of Neurochemistry</i> , 1983, 40, 547-554.	3.9	41
28	Protein kinase C and F-actin are essential for stimulation of neuronal FAK tyrosine phosphorylation by G-proteins and amyloid beta protein. <i>FEBS Letters</i> , 1996, 386, 185-188.	2.8	40
29	Effective anti-Alzheimer $A\beta^2$ therapy involves depletion of specific $A\beta^2$ oligomer subtypes. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2016, 3, e237.	6.0	39
30	Specificity of Muscarinic Acetylcholine Receptor Regulation by Receptor Activity. <i>Journal of Neurochemistry</i> , 1981, 37, 1099-1108.	3.9	30
31	Glycoprotein Properties of Muscarinic Acetylcholine Receptors from Bovine Cerebral Cortex. <i>Journal of Neurochemistry</i> , 1986, 46, 23-32.	3.9	30
32	Parallel Postnatal Development of Choline Acetyltransferase Activity and Muscarinic Acetylcholine Receptors in the Rat Olfactory Bulb. <i>Journal of Neurochemistry</i> , 1986, 46, 671-680.	3.9	30
33	Targeting Generation of Antibodies Specific to Conformational Epitopes of Amyloid $\beta$ -Derived Neurotoxins. <i>CNS and Neurological Disorders - Drug Targets</i> , 2009, 8, 65-81.	1.4	29
34	CNS neuronal focal adhesion kinase forms clusters that co-localize with vinculin. <i>Journal of Neuroscience Research</i> , 1996, 46, 445-455.	2.9	27
35	Identification of intraneuronal amyloid beta oligomers in locus coeruleus neurons of Alzheimer's disease patients and their potential impact on inhibitory neurotransmitter receptors and neuronal excitability. <i>Neuropathology and Applied Neurobiology</i> , 2021, 47, 488-505.	3.2	25
36	Rapid impact of $\beta$ -amyloid on Paxillin in a neural cell line. , 1997, 50, 979-989.		23

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37	Alzheimer's Toxic Amyloid Beta Oligomers: Unwelcome Visitors to the Na/K ATPase alpha3 Docking Station. <i>Yale Journal of Biology and Medicine</i> , 2017, 90, 45-61.	0.2	23
38	Induction of inverted morphology in brain organoids by vertical-mixing bioreactors. <i>Communications Biology</i> , 2021, 4, 1213.	4.4	13
39	Muscarinic Acetylcholine Receptors from Avian Retina and Heart Undergo Different Patterns of Molecular Maturation. <i>Journal of Neurochemistry</i> , 1988, 50, 1403-1411.	3.9	9
40	Insights into the mechanism of Alzheimer's $\beta$ -amyloid aggregation as a function of concentration by using atomic force microscopy. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	7
41	An Essential Role for Alzheimer's-Linked Amyloid Beta Oligomers in Neurodevelopment: Transient Expression of Multiple Proteoforms during Retina Histogenesis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2208.	4.1	5
42	Transient expression of adhesion molecules during chick retinal development. <i>Journal of Neurobiology</i> , 1992, 23, 720-738.	3.6	3
43	Cholinergic differentiation in neurogenic basal forebrain cultures. <i>Journal of Neurobiology</i> , 1992, 23, 252-269.	3.6	1
44	Increased protein tyrosine phosphorylation in apoptotic neural cell death due to microtubule perturbations. <i>Neurotoxicity Research</i> , 2000, 2, 357-372.	2.7	0