

Carmela Abraham

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

10,056
citations

46
h-index

100
g-index

138
ext. papers

10,946
ext. citations

7.4
avg, IF

5.51
L-index

#	Paper	IF	Citations
130	AAV-mediated expression of secreted and transmembrane Klotho isoforms rescues relevant aging hallmarks in senescent SAMP8 mice.. <i>Aging Cell</i> , 2022 , e13581	9.9	1
129	Klotho, PTSD, and advanced epigenetic age in cortical tissue. <i>Neuropsychopharmacology</i> , 2021 , 46, 721-789	7.9	8
128	miR-142-3p regulates cortical oligodendrocyte gene co-expression networks associated with tauopathy. <i>Human Molecular Genetics</i> , 2021 , 30, 103-118	5.6	0
127	Small heat shock protein β -crystallin potentiates A β neurotoxicity by hetero-oligomeric stabilization.. <i>Alzheimers and Dementia</i> , 2021 , 17 Suppl 3, e055265	1.2	0
126	Identification of the cleavage sites leading to the shed forms of human and mouse anti-aging and cognition-enhancing protein Klotho. <i>PLoS ONE</i> , 2020 , 15, e0226382	3.7	5
125	A method to specifically activate the Klotho promoter by using zinc finger proteins constructed from modular building blocks and from naturally engineered Egr1 transcription factor backbone. <i>FASEB Journal</i> , 2020 , 34, 7234-7246	0.9	1
124	PTSD and the klotho longevity gene: Evaluation of longitudinal effects on inflammation via DNA methylation. <i>Psychoneuroendocrinology</i> , 2020 , 117, 104656	5	7
123	Klotho regulation by albuminuria is dependent on ATF3 and endoplasmic reticulum stress. <i>FASEB Journal</i> , 2020 , 34, 2087-2104	0.9	9
122	Identification of the cleavage sites leading to the shed forms of human and mouse anti-aging and cognition-enhancing protein Klotho 2020 , 15, e0226382		
121	Identification of the cleavage sites leading to the shed forms of human and mouse anti-aging and cognition-enhancing protein Klotho 2020 , 15, e0226382		
120	Identification of the cleavage sites leading to the shed forms of human and mouse anti-aging and cognition-enhancing protein Klotho 2020 , 15, e0226382		
119	Identification of the cleavage sites leading to the shed forms of human and mouse anti-aging and cognition-enhancing protein Klotho 2020 , 15, e0226382		
118	Klotho Is Neuroprotective in the Superoxide Dismutase (SOD1) Mouse Model of ALS. <i>Journal of Molecular Neuroscience</i> , 2019 , 69, 264-285	3.3	14
117	Circulating fibroblast growth factor 23 levels and incident dementia: The Framingham heart study. <i>PLoS ONE</i> , 2019 , 14, e0213321	3.7	19
116	Small Molecule Amyloid- β Protein Precursor Processing Modulators Lower Amyloid- β Peptide Levels via cKit Signaling. <i>Journal of Alzheimers Disease</i> , 2019 , 67, 1089-1106	4.3	4
115	Activation of the Anti-Aging and Cognition-Enhancing Gene Klotho by CRISPR-dCas9 Transcriptional Effector Complex. <i>Journal of Molecular Neuroscience</i> , 2018 , 64, 175-184	3.3	22
114	Candidate molecular pathways of white matter vulnerability in the brain of normal aging rhesus monkeys. <i>GeroScience</i> , 2018 , 40, 31-47	8.9	7

113	Tau Phosphorylation is Impacted by Rare AKAP9 Mutations Associated with Alzheimer Disease in African Americans. <i>Journal of NeuroImmune Pharmacology</i> , 2018 , 13, 254-264	6.9	13
112	[P3092]: TAU PHOSPHORYLATION IS IMPACTED BY RARE AD-ASSOCIATED AKAP9 MUTATIONS SPECIFIC TO AFRICAN AMERICANS 2017 , 13, P969-P969		
111	Klotho Is a Neuroprotective and Cognition-Enhancing Protein. <i>Vitamins and Hormones</i> , 2016 , 101, 215-382.5	39	
110	The Anti-Aging Protein Klotho Enhances Remyelination Following Cuprizone-Induced Demyelination. <i>Journal of Molecular Neuroscience</i> , 2015 , 57, 185-96	3.3	34
109	The anti-aging and tumor suppressor protein Klotho enhances differentiation of a human oligodendrocytic hybrid cell line. <i>Journal of Molecular Neuroscience</i> , 2015 , 55, 76-90	3.3	31
108	Life extension factor klotho prevents mortality and enhances cognition in hAPP transgenic mice. <i>Journal of Neuroscience</i> , 2015 , 35, 2358-71	6.6	105
107	PLXNA4 is associated with Alzheimer disease and modulates tau phosphorylation. <i>Annals of Neurology</i> , 2014 , 76, 379-92	9.4	48
106	Identification of cleavage sites leading to the shed form of the anti-aging protein klotho. <i>Biochemistry</i> , 2014 , 53, 5579-87	3.2	74
105	Life extension factor klotho enhances cognition. <i>Cell Reports</i> , 2014 , 7, 1065-76	10.6	166
104	MicroRNA-339 and microRNA-556 regulate Klotho expression in vitro. <i>Age</i> , 2014 , 36, 141-9		21
103	The neuroprotective effect of Klotho is mediated via regulation of members of the redox system. <i>Journal of Biological Chemistry</i> , 2014 , 289, 24700-15	5.4	132
102	Acylaminoacyl-Peptidase 2013 , 3401-3403		2
101	The spectrum of disease in chronic traumatic encephalopathy. <i>Brain</i> , 2013 , 136, 43-64	11.2	1313
100	The antiaging protein Klotho enhances oligodendrocyte maturation and myelination of the CNS. <i>Journal of Neuroscience</i> , 2013 , 33, 1927-39	6.6	108
99	Biochemical and functional characterization of the klotho-VS polymorphism implicated in aging and disease risk. <i>Journal of Biological Chemistry</i> , 2013 , 288, 36302-11	5.4	31
98	Comparable dimerization found in wildtype and familial Alzheimer's disease amyloid precursor protein mutants. <i>American Journal of Neurodegenerative Disease</i> , 2013 , 2, 15-28	2.5	6
97	Identification of novel small molecules that elevate Klotho expression. <i>Biochemical Journal</i> , 2012 , 441, 453-61	3.8	42
96	Small-molecule Klotho enhancers as novel treatment of neurodegeneration. <i>Future Medicinal Chemistry</i> , 2012 , 4, 1671-9	4.1	45

95	Promoter methylation and age-related downregulation of Klotho in rhesus monkey. <i>Age</i> , 2012 , 34, 1405-19		61
94	Serum paraoxonase activity is associated with variants in the PON gene cluster and risk of Alzheimer disease. <i>Neurobiology of Aging</i> , 2012 , 33, 1015.e7-23	5.6	22
93	Lowering of amyloid beta peptide production with a small molecule inhibitor of amyloid- β precursor protein dimerization. <i>American Journal of Neurodegenerative Disease</i> , 2012 , 1, 75-87	2.5	14
92	Amyloid Beta Peptide and the Amyloid Cascade Hypothesis 2011 , 262-276		
91	Detection of amyloid- β protein precursor homo-interactions using beta-galactosidase enzyme fragment complementation. <i>Journal of Alzheimer's Disease</i> , 2011 , 26, 647-55	4.3	1
90	Cell-type dependent modulation of Notch signaling by the amyloid precursor protein. <i>Journal of Neurochemistry</i> , 2010 , 113, 262-74	6	14
89	Acyl peptide hydrolase degrades monomeric and oligomeric amyloid-beta peptide. <i>Molecular Neurodegeneration</i> , 2009 , 4, 33	19	42
88	Oxysterol-binding protein-1 (OSBP1) modulates processing and trafficking of the amyloid precursor protein. <i>Molecular Neurodegeneration</i> , 2008 , 3, 5	19	26
87	Gene profile analysis implicates Klotho as an important contributor to aging changes in brain white matter of the rhesus monkey. <i>Glia</i> , 2008 , 56, 106-17	9	92
86	Age-dependent accumulation of ubiquitinated 2',3'-cyclic nucleotide 3'-phosphodiesterase in myelin lipid rafts. <i>Glia</i> , 2008 , 56, 118-33	9	34
85	Acyl peptide hydrolase, a serine proteinase isolated from conditioned medium of neuroblastoma cells, degrades the amyloid-beta peptide. <i>Journal of Neurochemistry</i> , 2007 , 100, 458-67	6	31
84	What's behind the decline? The role of white matter in brain aging. <i>Neurochemical Research</i> , 2007 , 32, 2023-31	4.6	53
83	Insulin stimulates the cleavage and release of the extracellular domain of Klotho by ADAM10 and ADAM17. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19796-801	11.5	396
82	Age-related molecular reorganization at the node of Ranvier. <i>Journal of Comparative Neurology</i> , 2006 , 495, 351-62	3.4	66
81	Activation of early components of complement targets myelin and oligodendrocytes in the aged rhesus monkey brain. <i>Neurobiology of Aging</i> , 2006 , 27, 633-44	5.6	26
80	Visualization of APP dimerization and APP-Notch2 heterodimerization in living cells using bimolecular fluorescence complementation. <i>Journal of Neurochemistry</i> , 2006 , 97, 30-43	6	56
79	β -Antichymotrypsin Inhibits A β Degradation in Vitro and in Vivo. <i>Annals of the New York Academy of Sciences</i> , 2006 , 920, 245-248	6.5	18
78	Amyloid precursor protein interacts with notch receptors. <i>Journal of Neuroscience Research</i> , 2005 , 82, 32-42	4.4	39

77	Activation of calpain-1 in myelin and microglia in the white matter of the aged rhesus monkey. <i>Journal of Neurochemistry</i> , 2004 , 89, 430-41	6	26
76	Age-dependent myelin degeneration and proteolysis of oligodendrocyte proteins is associated with the activation of calpain-1 in the rhesus monkey. <i>Journal of Neurochemistry</i> , 2003 , 84, 157-68	6	69
75	The cytosolic endopeptidase, thimet oligopeptidase, destroys antigenic peptides and limits the extent of MHC class I antigen presentation. <i>Immunity</i> , 2003 , 18, 429-40	32.3	125
74	Metalloendopeptidase EC 3.4.24.15 in Neurodegeneration 2002 , 101-116		
73	Reactive astrocytes and alpha1-antichymotrypsin in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2001 , 22, 931-6	5.6	67
72	Astrocytic hypertrophy and altered GFAP degradation with age in subcortical white matter of the rhesus monkey. <i>Brain Research</i> , 2000 , 862, 1-10	3.7	73
71	Amyloid beta peptide: a century of discoveries. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2000 , 7, 7-9	2.7	2
70	Astroglial expression of human alpha(1)-antichymotrypsin enhances alzheimer-like pathology in amyloid protein precursor transgenic mice. <i>American Journal of Pathology</i> , 2000 , 157, 2003-10	5.8	100
69	Alpha 1-antichymotrypsin inhibits A beta degradation in vitro and in vivo. <i>Annals of the New York Academy of Sciences</i> , 2000 , 920, 245-8	6.5	7
68	Metalloendopeptidase EC 3.4.24.15 is necessary for Alzheimer's amyloid-beta peptide degradation. <i>Journal of Biological Chemistry</i> , 1999 , 274, 18777-84	5.4	70
67	Platelets and DAMI megakaryocytes possess beta-secretase-like activity. <i>Translational Research</i> , 1999 , 133, 507-15		12
66	Increased microglial activation and protein nitration in white matter of the aging monkey. <i>Neurobiology of Aging</i> , 1999 , 20, 395-405	5.6	178
65	Association between bleomycin hydrolase and Alzheimer's disease in caucasians. <i>Annals of Neurology</i> , 1998 , 44, 808-11	9.4	39
64	Identification of a novel serine protease-like molecule in human brain. <i>Molecular Brain Research</i> , 1998 , 55, 181-97		4
63	Induction of matrix metalloproteinase-2 in human immunodeficiency virus-1 glycoprotein 120 transgenic mouse brains. <i>Neuroscience Letters</i> , 1998 , 254, 97-100	3.3	31
62	Blood brain barrier endothelial cells express candidate amyloid precursor protein-cleaving secretases. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1998 , 5, 153-62	2.7	16
61	Hypothesis: Amyloid precursor protein is a key sorting and targeting receptor for neuropeptidases. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1997 , 4, 233-239	2.7	
60	Interaction of nascent ApoE2, ApoE3, and ApoE4 isoforms expressed in mammalian cells with amyloid peptide beta (1-40). Relevance to Alzheimer's disease. <i>Biochemistry</i> , 1997 , 36, 10571-80	3.2	121

59	Evidence for local production of acute phase response apolipoprotein serum amyloid A in Alzheimer's disease brain. <i>Neuroscience Letters</i> , 1997 , 225, 73-6	3.3	61
58	Amyloid precursor proteins protect neurons of transgenic mice against acute and chronic excitotoxic injuries in vivo. <i>Neuroscience</i> , 1997 , 78, 135-46	3.9	105
57	Lack of correlation between plaque burden and cognition in the aged monkey. <i>Acta Neuropathologica</i> , 1997 , 94, 471-8	14.3	72
56	Apolipoprotein E is synthesized in the retina by Müller glial cells, secreted into the vitreous, and rapidly transported into the optic nerve by retinal ganglion cells. <i>Journal of Biological Chemistry</i> , 1996 , 271, 5628-32	5.4	68
55	Monoclonal antibodies against the human metalloprotease EC 3.4.24.15 label neurofibrillary tangles in Alzheimer's disease brain. <i>Journal of Neurochemistry</i> , 1996 , 66, 2011-8	6	13
54	Synthesis and secretion of active alpha 1-antichymotrypsin by murine primary astrocytes. <i>Neurobiology of Aging</i> , 1996 , 17, 767-71	5.6	16
53	Neurotrophic and neuroprotective effects of hAPP in transgenic mice. <i>Annals of the New York Academy of Sciences</i> , 1996 , 777, 82-8	6.5	67
52	A novel brain cysteine protease forms an SDS stable complex with the beta-amyloid precursor protein. <i>Annals of the New York Academy of Sciences</i> , 1996 , 777, 183-8	6.5	11
51	The fibril forming region of the beta-amyloid precursor differs from that of the amyloid A precursor in its interaction with lipids. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 219, 962-7	3.4	6
50	Human endopeptidase (THOP1) is localized on chromosome 19 within the linkage region for the late-onset alzheimer disease AD2 locus. <i>Genomics</i> , 1996 , 31, 246-9	4.3	11
49	Neurobiological bases of age-related cognitive decline in the rhesus monkey. <i>Journal of Neuropathology and Experimental Neurology</i> , 1996 , 55, 861-74	3.1	219
48	Protection against HIV-1 gp120-induced brain damage by neuronal expression of human amyloid precursor protein. <i>Journal of Experimental Medicine</i> , 1995 , 181, 1551-6	16.6	85
47	Allele epsilon 4 of apolipoprotein E shows a dose effect on age at onset of Pick disease. <i>Experimental Neurology</i> , 1995 , 136, 162-70	5.7	37
46	Amyloid β protein precursor and apolipoprotein E production in cultured cerebral endothelial cells isolated from brains of patients with neurodegenerative disorders at autopsy. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1995 , 2, 213-216	2.7	6
45	The identification of an Alzheimer's disease gene on chromosome 14 opens new avenues for research. The views of an amyloidologist. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1995 , 2, 213-216	2.7	
44	Synaptotrophic effects of human amyloid beta protein precursors in the cortex of transgenic mice. <i>Brain Research</i> , 1994 , 666, 151-67	3.7	259
43	Central nervous system damage produced by expression of the HIV-1 coat protein gp120 in transgenic mice. <i>Nature</i> , 1994 , 367, 188-93	50.4	604
42	Identification of full length β amyloid precursor protein in human neuronal and non-neuronal cell culture supernatant: a possible extracellular source for the generation of A β . <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1994 , 1, 222-229	2.7	4

41	Identification of a metalloprotease from Alzheimer's disease brain able to degrade the beta-amyloid precursor protein and generate amyloidogenic fragments. <i>Biochemistry</i> , 1994 , 33, 192-9	3.2	52
40	Amyloid precursor protein is synthesized by retinal ganglion cells, rapidly transported to the optic nerve plasma membrane and nerve terminals, and metabolized. <i>Journal of Neurochemistry</i> , 1993 , 61, 464-73	6	82
39	Neutrophil proteases associated with amyloid fibrils. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 197, 130-6	3.4	24
38	Purification and cloning of monkey proteases involved in the processing of the beta-amyloid precursor protein. <i>Neurobiology of Aging</i> , 1993 , 14, 677-9	5.6	
37	Neurologic disease induced in transgenic mice by cerebral overexpression of interleukin 6. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 10061-5	11.5	839
36	Alpha 1-antichymotrypsin binding to Alzheimer A beta peptides is sequence specific and induces fibril disaggregation in vitro. <i>Journal of Neurochemistry</i> , 1993 , 61, 298-305	6	132
35	Expression of cathepsin G-like and alpha 1-antichymotrypsin-like proteins in reactive astrocytes. <i>Brain Research</i> , 1993 , 621, 222-32	3.7	29
34	The role of the acute-phase protein alpha 1-antichymotrypsin in brain dysfunction and injury. <i>Research in Immunology</i> , 1992 , 143, 631-6		36
33	Purification and cloning of brain proteases capable of degrading the beta-amyloid precursor protein. <i>Annals of the New York Academy of Sciences</i> , 1992 , 674, 174-9	6.5	12
32	A calcium-stimulated serine protease from monkey brain degrades the beta-amyloid precursor protein. <i>Brain Research</i> , 1992 , 589, 207-16	3.7	44
31	Demonstration of plasma proteinase inhibitors in beta 2-microglobulin amyloid deposits. <i>Kidney International</i> , 1992 , 42, 915-23	9.9	34
30	Studies on the proteolytic degradation of the beta-protein precursor by proteases purified from Alzheimer's disease brain. <i>Annals of the New York Academy of Sciences</i> , 1991 , 640, 161-5	6.5	4
29	Developmental expression of alpha 1-antichymotrypsin in brain may be related to astrogliosis. <i>Neurobiology of Aging</i> , 1991 , 12, 495-501	5.6	43
28	A calcium-activated protease from Alzheimer's disease brain cleaves at the N-terminus of the amyloid beta-protein. <i>Biochemical and Biophysical Research Communications</i> , 1991 , 174, 790-6	3.4	59
27	Transplants of mouse trisomy 16 hippocampus provide a model of Alzheimer's disease neuropathology. <i>EMBO Journal</i> , 1991 , 10, 297-303	13	51
26	Transplants of mouse trisomy 16 hippocampus provide a model of Alzheimer's disease neuropathology. <i>EMBO Journal</i> , 1991 , 10, 297-303	13	9
25	Proteolytic Processing of β Amyloid Protein-Related Synthetic Peptides and the β Protein Precursor by a Protease Purified from Alzheimer's Disease Brain 1991 , 718-721		
24	Alpha 1-antichymotrypsin is associated solely with amyloid deposits containing the beta-protein. Amyloid and cell localization of alpha 1-antichymotrypsin. <i>Neurobiology of Aging</i> , 1990 , 11, 123-9	5.6	143

23	Facile and sensitive assay for monitoring proteolytic activities with defined specificities: studies on amyloid beta-protein processing in Alzheimer's disease. <i>Peptide Research</i> , 1990 , 3, 211-5		1
22	Antichymotrypsin 1990 , 75-88		
21	Proteolytic Processing of Protein Precursor-Related Synthetic Peptides. <i>Advances in Behavioral Biology</i> , 1990 , 69-74		
20	The Serpin, Antichymotrypsin, in Brain Aging and Diseases of the Nervous System 1990 , 321-327		1
19	The protease inhibitor, alpha 1-antichymotrypsin, is a component of the brain amyloid deposits in normal aging and Alzheimer's disease. <i>Annals of Medicine</i> , 1989 , 21, 77-81	1.5	30
18	. <i>Nature Biotechnology</i> , 1989 , 7, 147-153	44.5	32
17	Potential roles of protease inhibitors in Alzheimer's disease. <i>Neurobiology of Aging</i> , 1989 , 10, 463-5; discussion 477-8	5.6	15
16	Alpha 1-antichymotrypsin is present together with the beta-protein in monkey brain amyloid deposits. <i>Neuroscience</i> , 1989 , 32, 715-20	3.9	58
15	Alpha 1-antichymotrypsin in brain aging and disease. <i>Progress in Clinical and Biological Research</i> , 1989 , 317, 1037-48		6
14	A latent collagenase in human aqueous humor. <i>Investigative Ophthalmology and Visual Science</i> , 1989 , 30, 332-5		12
13	Astrocytes in Alzheimer's disease gray matter express alpha 1-antichymotrypsin mRNA. <i>American Journal of Pathology</i> , 1989 , 135, 827-34	5.8	101
12	Immunochemical identification of the serine protease inhibitor alpha 1-antichymotrypsin in the brain amyloid deposits of Alzheimer's disease. <i>Cell</i> , 1988 , 52, 487-501	56.2	861
11	HPLC Analysis of Proteins from Alzheimer Paired Helical Filaments. <i>Annals of the New York Academy of Sciences</i> , 1987 , 494, 369-372	6.5	
10	Isolation of low-molecular-weight proteins from amyloid plaque fibers in Alzheimer's disease. <i>Journal of Neurochemistry</i> , 1986 , 46, 1820-34	6	310
9	X-ray diffraction from intraneuronal paired helical filaments and extraneuronal amyloid fibers in Alzheimer disease indicates cross-beta conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986 , 83, 503-7	11.5	492
8	Isolation of paired helical filaments and amyloid fibers from human brain. <i>Methods in Enzymology</i> , 1986 , 134, 388-404	1.7	17
7	Biochemical and Structural Studies of Paired Helical Filaments and Senile Plaque Amyloid in Alzheimer Disease 1986 , 709-715		1
6	Molecular Properties of Paired Helical Filaments and Senile Plaque Amyloid Fibers in Alzheimer Disease. <i>Advances in Behavioral Biology</i> , 1986 , 37-42		

5	Alzheimer's disease: immunoreactivity of neurofibrillary tangles with anti-neurofilament and anti-paired helical filament antibodies. <i>Brain Research</i> , 1984 , 310, 249-60	3.7	79
4	Microtubule-associated protein 2: monoclonal antibodies demonstrate the selective incorporation of certain epitopes into Alzheimer neurofibrillary tangles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984 , 81, 7941-5	11.5	206
3	Antibodies to paired helical filaments in Alzheimer's disease do not recognize normal brain proteins. <i>Nature</i> , 1983 , 304, 727-30	50.4	259
2	Huntington's disease: changes in striatal proteins reflect astrocytic gliosis. <i>Brain Research</i> , 1982 , 245, 117-25	3.7	56
1	Protection against hemorrhagic shock in the cat by human plasma containing endotoxin-specific antibodies. <i>Journal of Surgical Research</i> , 1981 , 31, 18-21	2.5	43