

# Gerhard Multhaup

## List of Publications by Citations

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66

papers

7,748

citations

33

h-index

69

g-index

69

ext. papers

8,279

ext. citations

6.8

avg, IF

4.9

L-index

#	Paper	IF	Citations
66	The precursor of Alzheimer's disease amyloid A4 protein resembles a cell-surface receptor. <i>Nature</i> , <b>1987</b> , 325, 733-6	50.4	4170
65	Presenilin-dependent gamma-secretase processing of beta-amyloid precursor protein at a site corresponding to the S3 cleavage of Notch. <i>EMBO Reports</i> , <b>2001</b> , 2, 835-41	6.5	424
64	GxxxG motifs within the amyloid precursor protein transmembrane sequence are critical for the etiology of Abeta42. <i>EMBO Journal</i> , <b>2007</b> , 26, 1702-12	13	232
63	The beta A4 amyloid precursor protein binding to copper. <i>FEBS Letters</i> , <b>1994</b> , 349, 109-16	3.8	206
62	Crystal structure of the N-terminal, growth factor-like domain of Alzheimer amyloid precursor protein. <i>Nature Structural Biology</i> , <b>1999</b> , 6, 327-31		199
61	The cellular prion protein mediates neurotoxic signalling of beta-sheet-rich conformers independent of prion replication. <i>EMBO Journal</i> , <b>2011</b> , 30, 2057-70	13	181
60	Copper inhibits amyloid production and stimulates the non-amyloidogenic pathway of amyloid-precursor-protein secretion. <i>Biochemical Journal</i> , <b>1999</b> , 344, 461-467	3.8	144
59	Copper-binding amyloid precursor protein undergoes a site-specific fragmentation in the reduction of hydrogen peroxide. <i>Biochemistry</i> , <b>1998</b> , 37, 7224-30	3.2	120
58	Clioquinol mediates copper uptake and counteracts copper efflux activities of the amyloid precursor protein of Alzheimer's disease. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 51958-64	5.4	108
57	Intraneuronal APP/A beta trafficking and plaque formation in beta-amyloid precursor protein and presenilin-1 transgenic mice. <i>Brain Pathology</i> , <b>2002</b> , 12, 275-86	6	104
56	Mutations in the transmembrane domain of APP altering gamma-secretase specificity. <i>Biochemistry</i> , <b>1997</b> , 36, 15396-403	3.2	97
55	Regulation and expression of the Alzheimer's beta/A4 amyloid protein precursor in health, disease, and Down's syndrome. <i>Annals of the New York Academy of Sciences</i> , <b>1993</b> , 695, 91-102	6.5	93
54	Dimerization of beta-site beta-amyloid precursor protein-cleaving enzyme. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 53205-12	5.4	90
53	Role of amyloid-beta glycine 33 in oligomerization, toxicity, and neuronal plasticity. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 7582-90	6.6	87
52	Subcellular localization and dimerization of APLP1 are strikingly different from APP and APLP2. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 368-77	5.3	78
51	Metal binding dictates conformation and function of the amyloid precursor protein (APP) E2 domain. <i>Journal of Molecular Biology</i> , <b>2012</b> , 416, 438-52	6.5	77
50	Interaction between the zinc (II) and the heparin binding site of the Alzheimer's disease beta A4 amyloid precursor protein (APP). <i>FEBS Letters</i> , <b>1994</b> , 355, 151-4	3.8	75

49	Intake of copper has no effect on cognition in patients with mild Alzheimer's disease: a pilot phase 2 clinical trial. <i>Journal of Neural Transmission</i> , <b>2008</b> , 115, 1181-7	4.3	74
48	Characterization of intermediate steps in amyloid beta (A $\beta$ ) production under near-native conditions. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 1540-50	5.4	72
47	Evidence for Heterodimerization and Functional Interaction of the Angiotensin Type 2 Receptor and the Receptor MAS. <i>Hypertension</i> , <b>2017</b> , 69, 1128-1135	8.5	69
46	Human BACE forms dimers and colocalizes with APP. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 39710-7	5.4	62
45	Novel APP/A $\beta$ mutation K16N produces highly toxic heteromeric A $\beta$ oligomers. <i>EMBO Molecular Medicine</i> , <b>2012</b> , 4, 647-59	12	58
44	Amyloid Precursor Protein (APP) Metabolites APP Intracellular Fragment (AICD), A $\beta$ 2, and Tau in Nuclear Roles. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 23515-22	5.4	55
43	Aberrant amyloid precursor protein (APP) processing in hereditary forms of Alzheimer disease caused by APP familial Alzheimer disease mutations can be rescued by mutations in the APP GxxxG motif. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 21636-43	5.4	53
42	Identification of a beta-secretase activity, which truncates amyloid beta-peptide after its presenilin-dependent generation. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 5531-8	5.4	51
41	Nuclear translocation uncovers the amyloid peptide A $\beta$ 2 as a regulator of gene transcription. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 20182-91	5.4	50
40	Human amyloid precursor-like protein 1--cDNA cloning, ectopic expression in COS-7 cells and identification of soluble forms in the cerebrospinal fluid. <i>FEBS Journal</i> , <b>1997</b> , 250, 354-63		49
39	Proteolytic fragments of Alzheimer's disease-associated presenilin 1 are present in synaptic organelles and growth cone membranes of rat brain. <i>Journal of Neurochemistry</i> , <b>1999</b> , 72, 1564-73	6	47
38	Human brain beta A4 amyloid protein precursor of Alzheimer's disease: purification and partial characterization. <i>Journal of Neurochemistry</i> , <b>1992</b> , 59, 1490-8	6	45
37	A novel substrate for analyzing Alzheimer's disease gamma-secretase. <i>FEBS Letters</i> , <b>1999</b> , 453, 288-92	3.8	41
36	The amyloid precursor protein and its homologues: structural and functional aspects of native and pathogenic oligomerization. <i>European Journal of Cell Biology</i> , <b>2012</b> , 91, 234-9	6.1	38
35	Sulindac Sulfide Induces the Formation of Large Oligomeric Aggregates of the Alzheimer's Disease Amyloid- $\beta$ Peptide Which Exhibit Reduced Neurotoxicity. <i>Biochemistry</i> , <b>2016</b> , 55, 1839-49	3.2	37
34	Alzheimer amyloid peptide a $\beta$ 2 regulates gene expression of transcription and growth factors. <i>Journal of Alzheimer's Disease</i> , <b>2015</b> , 44, 613-24	4.3	35
33	Amyloid precursor-like protein 1 accumulates in neuritic plaques in Alzheimer's disease. <i>Acta Neuropathologica</i> , <b>1997</b> , 94, 519-24	14.3	31
32	APP dimer formation is initiated in the endoplasmic reticulum and differs between APP isoforms. <i>Cellular and Molecular Life Sciences</i> , <b>2012</b> , 69, 1353-75	10.3	30

31	Inhibition of platelet activation by the Alzheimer's disease amyloid precursor protein. <i>British Journal of Haematology</i> , <b>1998</b> , 103, 402-15	4.5	26
30	Possible mechanisms of APP-mediated oxidative stress in Alzheimer's disease. <i>Free Radical Biology and Medicine</i> , <b>2002</b> , 33, 45-51	7.8	25
29	Structural Mechanism of the Interaction of Alzheimer Disease A $\beta$ Fibrils with the Non-steroidal Anti-inflammatory Drug (NSAID) Sulindac Sulfide. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 28737-45	5.4	21
28	Direct evidence of amyloid precursor-like protein 1 interactions in cell-cell adhesion platforms investigated via fluorescence fluctuation spectroscopy. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 3609-3620	3.5	21
27	A $\beta$ 2-oligomer Interacting Peptide (AIP) neutralizes toxic amyloid- $\beta$ 2 species and protects synaptic structure and function. <i>Scientific Reports</i> , <b>2015</b> , 5, 15410	4.9	21
26	Distinct age and differentiation-state dependent metabolic profiles of oligodendrocytes under optimal and stress conditions. <i>PLoS ONE</i> , <b>2017</b> , 12, e0182372	3.7	21
25	Understanding the Interaction of Polyelectrolyte Architectures with Proteins and Biosystems. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 3882-3904	16.4	21
24	A $\beta$ 4 is a BACE1-derived degradation intermediate associated with amyloid clearance and Alzheimer's disease progression. <i>Nature Communications</i> , <b>2019</b> , 10, 2240	17.4	20
23	Dendritic Polyglycerol Sulfates in the Prevention of Synaptic Loss and Mechanism of Action on Glia. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 260-271	5.7	19
22	Novel zinc-binding site in the E2 domain regulates amyloid precursor-like protein 1 (APLP1) oligomerization. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 19019-30	5.4	19
21	APLP1 is endoproteolytically cleaved by $\beta$ secretase without previous ectodomain shedding. <i>Scientific Reports</i> , <b>2018</b> , 8, 1916	4.9	16
20	Amyloid precursor-like protein 1 (APLP1) exhibits stronger zinc-dependent neuronal adhesion than amyloid precursor protein and APLP2. <i>Journal of Neurochemistry</i> , <b>2016</b> , 137, 266-76	6	16
19	Impact of amyloid precursor protein hydrophilic transmembrane residues on amyloid-beta generation. <i>Biochemistry</i> , <b>2015</b> , 54, 2777-84	3.2	13
18	Polyglycerol based coatings to reduce non-specific protein adsorption in sample vials and on SPR sensors. <i>Analytica Chimica Acta</i> , <b>2015</b> , 867, 47-55	6.6	13
17	Full-length cellular $\beta$ secretase has a trimeric subunit stoichiometry, and its sulfur-rich transmembrane interaction site modulates cytosolic copper compartmentalization. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 13258-13270	5.4	13
16	Model peptides uncover the role of the $\beta$ secretase transmembrane sequence in metal ion mediated oligomerization. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 19354-61	16.4	12
15	Dimerization of the cellular prion protein inhibits propagation of scrapie prions. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 8020-8031	5.4	9
14	Copper transport mediated by nanocarrier systems in a blood-brain barrier in vitro model. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1910-9	6.9	9

13	The amyloid- $\beta$ degradation intermediate A $\beta$ 4 is pericyte-associated and reduced in brain capillaries of patients with Alzheimer's disease. <i>Acta Neuropathologica Communications</i> , <b>2019</b> , 7, 194	7.3	9
12	Interaction of the amyloid precursor protein-like protein 1 (APLP1) E2 domain with heparan sulfate involves two distinct binding modes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2015</b> , 71, 494-504		8
11	Amyloid Precursor Protein Dimerisation Reduces Neurite Outgrowth. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 13-28	6.2	8
10	Neurodegenerative Disease-Related Proteins within the Epidermal Layer of the Human Skin. <i>Journal of Alzheimer's Disease</i> , <b>2019</b> , 69, 463-478	4.3	7
9	Hyperbranched Polyglycerol Derivatives as Prospective Copper Nanotransporter Candidates. <i>Molecules</i> , <b>2018</b> , 23,	4.8	6
8	Label-free distribution of anti-amyloid D-AIP in <i>Drosophila melanogaster</i> : prevention of A $\beta$ 2-induced toxicity without side effects in transgenic flies. <i>Journal of Neurochemistry</i> , <b>2019</b> , 150, 74-87 <sup>6</sup>		5
7	Wechselwirkung von Polyelektrolyt-Architekturen mit Proteinen und Biosystemen. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3926-3950	3.6	3
6	The Amyloid- $\beta$ oligomer interacting peptide D-AIP possesses favorable biostability, pharmacokinetics, and brain region distribution.. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 101483	5.4	1
5	Alzheimer's Disease: Genesis of Amyloid. <i>Novartis Foundation Symposium</i> , 119-131		1
4	Plasma Amyloid-Beta Levels in a Pre-Symptomatic Dutch-Type Hereditary Cerebral Amyloid Angiopathy Pedigree: A Cross-Sectional and Longitudinal Investigation. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
3	Presymptomatic Dutch-Type Hereditary Cerebral Amyloid Angiopathy-Related Blood Metabolite Alterations. <i>Journal of Alzheimer's Disease</i> , <b>2021</b> , 79, 895-903	4.3	1
2	Biophysical characterization as a tool to predict amyloidogenic and toxic properties of amyloid- $\beta$ peptides.. <i>FEBS Letters</i> , <b>2022</b> ,	3.8	0
1	Crystal Structure of the N-terminal Heparin-Binding Domain of Alzheimer's Amyloid Precursor Protein. <i>Biochemical Society Transactions</i> , <b>2000</b> , 28, A447-A447	5.1	