

# Gerhard Multhaup

## 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.

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	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
65	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
64	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
63	Wechselwirkung von Polyelektrolyt-Architekturen mit Proteinen und Biosystemen. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3926-3950	3.6	3
62	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
61	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
60	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
59	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
58	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
57	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
56	Amyloid Precursor Protein Dimerisation Reduces Neurite Outgrowth. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 13-28	6.2	8
55	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
54	APLP1 is endoproteolytically cleaved by $\beta$ secretase without previous ectodomain shedding. <i>Scientific Reports</i> , <b>2018</b> , 8, 1916	4.9	16
53	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
52	Hyperbranched Polyglycerol Derivatives as Prospective Copper Nanotransporter Candidates. <i>Molecules</i> , <b>2018</b> , 23,	4.8	6
51	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
50	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 <sup>5</sup>	2.5	21

49	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
48	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
47	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
46	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
45	Impact of amyloid precursor protein hydrophilic transmembrane residues on amyloid-beta generation. <i>Biochemistry</i> , <b>2015</b> , 54, 2777-84	3.2	13
44	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
43	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
42	Alzheimer amyloid peptide $\alpha\beta 2$ regulates gene expression of transcription and growth factors. <i>Journal of Alzheimers Disease</i> , <b>2015</b> , 44, 613-24	4.3	35
41	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
40	Amyloid Precursor Protein (APP) Metabolites APP Intracellular Fragment (AICD), $\alpha\beta 2$ , and Tau in Nuclear Roles. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 23515-22	5.4	55
39	$\alpha\beta 2$ -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
38	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
37	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
36	Nuclear translocation uncovers the amyloid peptide $\alpha\beta 2$ as a regulator of gene transcription. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 20182-91	5.4	50
35	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
34	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
33	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
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	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
30	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
29	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
28	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
27	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
26	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
25	Intake of copper has no effect on cognition in patients with mild Alzheimer disease: a pilot phase 2 clinical trial. <i>Journal of Neural Transmission</i> , <b>2008</b> , 115, 1181-7	4.3	74
24	GxxxG motifs within the amyloid precursor protein transmembrane sequence are critical for the etiology of A $\beta$ 42. <i>EMBO Journal</i> , <b>2007</b> , 26, 1702-12	13	232
23	Clioquinol mediates copper uptake and counteracts copper efflux activities of the amyloid precursor protein of Alzheimer disease. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 51958-64	5.4	108
22	Human BACE forms dimers and colocalizes with APP. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 39710-7	5.4	62
21	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
20	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
19	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
18	Possible mechanisms of APP-mediated oxidative stress in Alzheimer disease. <i>Free Radical Biology and Medicine</i> , <b>2002</b> , 33, 45-51	7.8	25
17	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
16	Crystal Structure of the N-terminal Heparin-Binding Domain of Alzheimer Amyloid Precursor Protein. <i>Biochemical Society Transactions</i> , <b>2000</b> , 28, A447-A447	5.1	
15	Proteolytic fragments of Alzheimer 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
14	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

13	A novel substrate for analyzing Alzheimer's disease gamma-secretase. <i>FEBS Letters</i> , <b>1999</b> , 453, 288-92	3.8	41
12	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
11	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
10	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
9	Mutations in the transmembrane domain of APP altering gamma-secretase specificity. <i>Biochemistry</i> , <b>1997</b> , 36, 15396-403	3.2	97
8	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
7	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
6	The beta A4 amyloid precursor protein binding to copper. <i>FEBS Letters</i> , <b>1994</b> , 349, 109-16	3.8	206
5	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
4	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
3	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
2	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
1	Alzheimer's Disease: Genesis of Amyloid. <i>Novartis Foundation Symposium</i> , 119-131		1