

# Oliver Wirths

## List of Publications by Citations

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112  
papers

5,516  
citations

42  
h-index

72  
g-index

131  
ext. papers

6,195  
ext. citations

6  
avg, IF

5.69  
L-index

#	Paper	IF	Citations
112	Massive CA1/2 neuronal loss with intraneuronal and N-terminal truncated Abeta42 accumulation in a novel Alzheimer transgenic model. <i>American Journal of Pathology</i> , <b>2004</b> , 165, 1289-300	5.8	338
111	A modified beta-amyloid hypothesis: intraneuronal accumulation of the beta-amyloid peptide--the first step of a fatal cascade. <i>Journal of Neurochemistry</i> , <b>2004</b> , 91, 513-20	6	304
110	Intraneuronal Abeta accumulation precedes plaque formation in beta-amyloid precursor protein and presenilin-1 double-transgenic mice. <i>Neuroscience Letters</i> , <b>2001</b> , 306, 116-20	3.3	285
109	Motor deficits, neuron loss, and reduced anxiety coinciding with axonal degeneration and intraneuronal Aβ aggregation in the 5XFAD mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2012</b> , 33, 196.e29-40	5.6	281
108	Time sequence of maturation of dystrophic neurites associated with Abeta deposits in APP/PS1 transgenic mice. <i>Experimental Neurology</i> , <b>2003</b> , 184, 247-63	5.7	225
107	Hippocampal neuron loss exceeds amyloid plaque load in a transgenic mouse model of Alzheimer's disease. <i>American Journal of Pathology</i> , <b>2004</b> , 164, 1495-502	5.8	212
106	Pyroglutamate amyloid-β (Aβ) a hatchet man in Alzheimer disease. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 38825-32	5.4	146
105	Key factors in Alzheimer's disease: beta-amyloid precursor protein processing, metabolism and intraneuronal transport. <i>Brain Pathology</i> , <b>2001</b> , 11, 1-11	6	136
104	Intraneuronal pyroglutamate-Aβ 3-42 triggers neurodegeneration and lethal neurological deficits in a transgenic mouse model. <i>Acta Neuropathologica</i> , <b>2009</b> , 118, 487-96	14.3	132
103	Intracellular accumulation of amyloid-Beta - a predictor for synaptic dysfunction and neuron loss in Alzheimer's disease. <i>Frontiers in Aging Neuroscience</i> , <b>2010</b> , 2, 8	5.3	126
102	N-truncated amyloid β(Aβ)4-42 forms stable aggregates and induces acute and long-lasting behavioral deficits. <i>Acta Neuropathologica</i> , <b>2013</b> , 126, 189-205	14.3	123
101	Overexpression of human Dickkopf-1, an antagonist of wingless/WNT signaling, in human hepatoblastomas and Wilms' tumors. <i>Laboratory Investigation</i> , <b>2003</b> , 83, 429-34	5.9	122
100	Intraneuronal APP/Aβ 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
99	Focusing the amyloid cascade hypothesis on N-truncated Abeta peptides as drug targets against Alzheimer's disease. <i>Acta Neuropathologica</i> , <b>2014</b> , 127, 787-801	14.3	99
98	Transient intraneuronal Aβ rather than extracellular plaque pathology correlates with neuron loss in the frontal cortex of APP/PS1KI mice. <i>Acta Neuropathologica</i> , <b>2008</b> , 116, 647-55	14.3	98
97	Histone deacetylase inhibitor valproic acid inhibits cancer cell proliferation via down-regulation of the alzheimer amyloid precursor protein. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 10678-89	5.4	94
96	Axonopathy in an APP/PS1 transgenic mouse model of Alzheimer's disease. <i>Acta Neuropathologica</i> , <b>2006</b> , 111, 312-9	14.3	94

95	Age-dependent axonal degeneration in an Alzheimer mouse model. <i>Neurobiology of Aging</i> , <b>2007</b> , 28, 1689-99	5.6	91
94	Inflammatory changes are tightly associated with neurodegeneration in the brain and spinal cord of the APP/PS1KI mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2010</b> , 31, 747-57	5.6	85
93	Pyroglutamate Abeta pathology in APP/PS1KI mice, sporadic and familial Alzheimer's disease cases. <i>Journal of Neural Transmission</i> , <b>2010</b> , 117, 85-96	4.3	80
92	Identification of low molecular weight pyroglutamate A{beta} oligomers in Alzheimer disease: a novel tool for therapy and diagnosis. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 41517-24	5.4	75
91	Accumulation of intraneuronal Abeta correlates with ApoE4 genotype. <i>Acta Neuropathologica</i> , <b>2010</b> , 119, 555-66	14.3	72
90	APP/PS1KI bigenic mice develop early synaptic deficits and hippocampus atrophy. <i>Acta Neuropathologica</i> , <b>2009</b> , 117, 677-85	14.3	67
89	Intraneuronal Aβ accumulation and neurodegeneration: lessons from transgenic models. <i>Life Sciences</i> , <b>2012</b> , 91, 1148-52	6.8	65
88	Phosphorylation of the amyloid β peptide at Ser26 stabilizes oligomeric assembly and increases neurotoxicity. <i>Acta Neuropathologica</i> , <b>2016</b> , 131, 525-37	14.3	65
87	Overexpression of glutaminyl cyclase, the enzyme responsible for pyroglutamate A{beta} formation, induces behavioral deficits, and glutaminyl cyclase knock-out rescues the behavioral phenotype in 5XFAD mice. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 4454-60	5.4	64
86	Deficits in working memory and motor performance in the APP/PS1ki mouse model for Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2008</b> , 29, 891-901	5.6	64
85	Environmental enrichment fails to rescue working memory deficits, neuron loss, and neurogenesis in APP/PS1KI mice. <i>Neurobiology of Aging</i> , <b>2012</b> , 33, 96-107	5.6	63
84	Early intraneuronal accumulation and increased aggregation of phosphorylated Abeta in a mouse model of Alzheimer's disease. <i>Acta Neuropathologica</i> , <b>2013</b> , 125, 699-709	14.3	60
83	Pyroglutamate amyloid [[A]] aggravates behavioral deficits in transgenic amyloid mouse model for Alzheimer disease. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 8154-62	5.4	60
82	Deciphering the molecular profile of plaques, memory decline and neuron loss in two mouse models for Alzheimer's disease by deep sequencing. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 75	5.3	57
81	OTX1 and OTX2 expression correlates with the clinicopathologic classification of medulloblastomas. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2006</b> , 65, 176-86	3.1	57
80	Intracellular Aβ triggers neuron loss in the cholinergic system of the APP/PS1KI mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2010</b> , 31, 1153-63	5.6	56
79	Traumatic brain injury: cause or risk of Alzheimer's disease? A review of experimental studies. <i>Journal of Neural Transmission</i> , <b>2005</b> , 112, 1547-64	4.3	56
78	Effects of Long-Term Environmental Enrichment on Anxiety, Memory, Hippocampal Plasticity and Overall Brain Gene Expression in C57BL6 Mice. <i>Frontiers in Molecular Neuroscience</i> , <b>2016</b> , 9, 62	6.1	52

77	Motor impairment in Alzheimer's disease and transgenic Alzheimer's disease mouse models. <i>Genes, Brain and Behavior</i> , <b>2008</b> , 7 Suppl 1, 1-5	3.6	51
76	Reelin in plaques of beta-amyloid precursor protein and presenilin-1 double-transgenic mice. <i>Neuroscience Letters</i> , <b>2001</b> , 316, 145-8	3.3	50
75	Neuron loss in transgenic mouse models of Alzheimer's disease. <i>International Journal of Alzheimers Disease</i> , <b>2010</b> , 2010,	3.7	49
74	Physical activity delays hippocampal neurodegeneration and rescues memory deficits in an Alzheimer disease mouse model. <i>Translational Psychiatry</i> , <b>2016</b> , 6, e800	8.6	48
73	Accelerated tau pathology with synaptic and neuronal loss in a novel triple transgenic mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2013</b> , 34, 2564-73	5.6	45
72	Neprilysin deficiency alters the neuropathological and behavioral phenotype in the 5XFAD mouse model of Alzheimer's disease. <i>Journal of Alzheimers Disease</i> , <b>2015</b> , 44, 1291-302	4.3	45
71	Glycoprotein NMB: a novel Alzheimer's disease associated marker expressed in a subset of activated microglia. <i>Acta Neuropathologica Communications</i> , <b>2018</b> , 6, 108	7.3	44
70	Effect of copper intake on CSF parameters in patients with mild Alzheimer's disease: a pilot phase 2 clinical trial. <i>Journal of Neural Transmission</i> , <b>2008</b> , 115, 1651-9	4.3	42
69	Lewy body variant of Alzheimer's disease: alpha-synuclein in dystrophic neurites of A beta plaques. <i>NeuroReport</i> , <b>2000</b> , 11, 3737-41	1.7	42
68	Gender dependent APP processing in a transgenic mouse model of Alzheimer's disease. <i>Journal of Neural Transmission</i> , <b>2007</b> , 114, 387-94	4.3	40
67	Review on the APP/PS1KI mouse model: intraneuronal Abeta accumulation triggers axonopathy, neuron loss and working memory impairment. <i>Genes, Brain and Behavior</i> , <b>2008</b> , 7 Suppl 1, 6-11	3.6	39
66	Gene Dosage Dependent Aggravation of the Neurological Phenotype in the 5XFAD Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimers Disease</i> , <b>2015</b> , 45, 1223-36	4.3	38
65	Gene expression of neuregulin-1 isoforms in different brain regions of elderly schizophrenia patients. <i>World Journal of Biological Psychiatry</i> , <b>2010</b> , 11, 243-50	3.8	37
64	No alterations of hippocampal neuronal number and synaptic bouton number in a transgenic mouse model expressing the beta-cleaved C-terminal APP fragment. <i>Neurobiology of Disease</i> , <b>2003</b> , 12, 110-20	7.5	37
63	Alpha-synuclein, Abeta and Alzheimer's disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2003</b> , 27, 103-8	5.5	32
62	N-truncated Abeta starting with position four: early intraneuronal accumulation and rescue of toxicity using NT4X-167, a novel monoclonal antibody. <i>Acta Neuropathologica Communications</i> , <b>2013</b> , 1, 56	7.3	31
61	Altered neurogenesis in mouse models of Alzheimer disease. <i>Neurogenesis (Austin, Tex)</i> , <b>2017</b> , 4, e1327002		31
60	Limited Effects of Prolonged Environmental Enrichment on the Pathology of 5XFAD Mice. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 6542-6555	6.2	30

59	No improvement after chronic ibuprofen treatment in the 5XFAD mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2012</b> , 33, 833.e39-50	5.6	29
58	Formic acid is essential for immunohistochemical detection of aggregated intraneuronal Abeta peptides in mouse models of Alzheimer's disease. <i>Brain Research</i> , <b>2009</b> , 1301, 116-25	3.7	29
57	The Arctic A $\beta$ P mutation leads to Alzheimer's disease pathology with highly variable topographic deposition of differentially truncated A $\beta$ . <i>Acta Neuropathologica Communications</i> , <b>2013</b> , 1, 60	7.3	27
56	A $\beta$ P accumulation and/or intraneuronal amyloid- $\beta$ accumulation? The 3xTg-AD mouse model revisited. <i>Journal of Alzheimers Disease</i> , <b>2012</b> , 28, 897-904	4.3	27
55	N-truncated A $\beta$ peptides in sporadic Alzheimer's disease cases and transgenic Alzheimer mouse models. <i>Alzheimers Research and Therapy</i> , <b>2017</b> , 9, 80	9	26
54	Immunolesion-induced loss of cholinergic projection neurones promotes $\beta$ amyloidosis and tau hyperphosphorylation in the hippocampus of triple-transgenic mice. <i>Neuropathology and Applied Neurobiology</i> , <b>2014</b> , 40, 106-20	5.2	25
53	Concomitant detection of beta-amyloid peptides with N-terminal truncation and different C-terminal endings in cortical plaques from cases with Alzheimer's disease, senile monkeys and triple transgenic mice. <i>Journal of Chemical Neuroanatomy</i> , <b>2010</b> , 40, 82-92	3.2	25
52	A two-step immunoassay for the simultaneous assessment of A $\beta$ 8, A $\beta$ 0 and A $\beta$ 2 in human blood plasma supports the A $\beta$ 2/A $\beta$ 0 ratio as a promising biomarker candidate of Alzheimer's disease. <i>Alzheimers Research and Therapy</i> , <b>2018</b> , 10, 121	9	25
51	Emerging roles of N- and C-terminally truncated A $\beta$ species in Alzheimer's disease. <i>Expert Opinion on Therapeutic Targets</i> , <b>2019</b> , 23, 991-1004	6.4	24
50	The metalloprotease ADAMTS4 generates N-truncated A $\beta$ -x species and marks oligodendrocytes as a source of amyloidogenic peptides in Alzheimer's disease. <i>Acta Neuropathologica</i> , <b>2019</b> , 137, 239-257	14.3	24
49	Intraneuronal A $\beta$ s a trigger for neuron loss: can this be translated into human pathology?. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 857-61	5.1	23
48	Deposition of C-terminally truncated A $\beta$ species A $\beta$ 7 and A $\beta$ 9 in Alzheimer's disease and transgenic mouse models. <i>Acta Neuropathologica Communications</i> , <b>2016</b> , 4, 24	7.3	22
47	Axonal degeneration in an Alzheimer mouse model is PS1 gene dose dependent and linked to intraneuronal A $\beta$ accumulation. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 139	5.3	21
46	Reduced levels of IgM autoantibodies against N-truncated pyroglutamate A $\beta$ n in plasma of patients with Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2011</b> , 32, 1379-87	5.6	21
45	The Cannabinoid CB1/CB2 Agonist WIN55212.2 Promotes Oligodendrocyte Differentiation In Vitro and Neuroprotection During the Cuprizone-Induced Central Nervous System Demyelination. <i>CNS Neuroscience and Therapeutics</i> , <b>2016</b> , 22, 387-95	6.8	21
44	A $\beta$ 8 in the brains of patients with sporadic and familial Alzheimer's disease and transgenic mouse models. <i>Journal of Alzheimers Disease</i> , <b>2014</b> , 39, 871-81	4.3	19
43	Circulating immune complexes of Abeta and IgM in plasma of patients with Alzheimer's disease. <i>Journal of Neural Transmission</i> , <b>2009</b> , 116, 913-20	4.3	19
42	Abundance of A $\beta$ k like immunoreactivity in transgenic 5XFAD, APP/PS1KI and 3xTG mice, sporadic and familial Alzheimer's disease. <i>Molecular Neurodegeneration</i> , <b>2014</b> , 9, 13	19	18

41	Age-dependent loss of dentate gyrus granule cells in APP/PS1KI mice. <i>Brain Research</i> , <b>2008</b> , 1222, 207-133	7	18
40	Decreased plasma cholesterol levels during aging in transgenic mouse models of Alzheimer's disease. <i>Experimental Gerontology</i> , <b>2006</b> , 41, 220-4	4.5	16
39	Antibody 9D5 recognizes oligomeric pyroglutamate amyloid- $\beta$ in a fraction of amyloid- $\beta$ deposits in Alzheimer's disease without cross-reactivity with other protein aggregates. <i>Journal of Alzheimers Disease</i> , <b>2012</b> , 29, 361-71	4.3	15
38	Oligomeric pyroglutamate amyloid- $\beta$ s present in microglia and a subfraction of vessels in patients with Alzheimer's disease: implications for immunotherapy. <i>Journal of Alzheimers Disease</i> , <b>2013</b> , 35, 741-53	4.3	14
37	Intraneuronal beta-amyloid is a major risk factor--novel evidence from the APP/PS1KI mouse model. <i>Neurodegenerative Diseases</i> , <b>2008</b> , 5, 140-2	2.3	13
36	N-terminal heterogeneity of parenchymal and vascular amyloid- $\beta$ deposits in Alzheimer's disease. <i>Neuropathology and Applied Neurobiology</i> , <b>2020</b> , 46, 673-685	5.2	12
35	Abundant pyroglutamate-modified A $\beta$ 1 and A $\beta$ 2 peptides in extracellular and vascular amyloid deposits in familial British and Danish dementias. <i>Neurobiology of Aging</i> , <b>2013</b> , 34, 1416-25	5.6	12
34	Endogenous Apolipoprotein E (ApoE) Fragmentation Is Linked to Amyloid Pathology in Transgenic Mouse Models of Alzheimer's Disease. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 319-327	6.2	11
33	Amyloid precursor protein is a biomarker for transformed human pluripotent stem cells. <i>American Journal of Pathology</i> , <b>2012</b> , 180, 1636-52	5.8	11
32	Chronic Memantine Treatment Ameliorates Behavioral Deficits, Neuron Loss, and Impaired Neurogenesis in a Model of Alzheimer's Disease. <i>Molecular Neurobiology</i> , <b>2021</b> , 58, 204-216	6.2	11
31	N-Terminal Truncated A $\beta$ -42 Is a Substrate for Neprilysin Degradation in vitro and in vivo. <i>Journal of Alzheimers Disease</i> , <b>2019</b> , 67, 849-858	4.3	10
30	Synergistic Effect on Neurodegeneration by N-Truncated A $\beta$ and Pyroglutamate A $\beta$ in a Mouse Model of Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , <b>2018</b> , 10, 64	5.3	10
29	I716F A $\beta$ PP mutation associates with the deposition of oligomeric pyroglutamate amyloid- $\beta$ and $\beta$ -synucleinopathy with Lewy bodies. <i>Journal of Alzheimers Disease</i> , <b>2015</b> , 44, 103-14	4.3	9
28	N-truncated A $\beta$ -X starting with position two in sporadic Alzheimer's disease cases and two Alzheimer mouse models. <i>Journal of Alzheimers Disease</i> , <b>2016</b> , 49, 101-10	4.3	8
27	Preparation of Crude Synaptosomal Fractions from Mouse Brains and Spinal Cords. <i>Bio-protocol</i> , <b>2017</b> , 7, e2423	0.9	8
26	Neuron Loss in Alzheimer's Disease: Translation in Transgenic Mouse Models. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	8
25	Gene Expression Profiling in the APP/PS1KI Mouse Model of Familial Alzheimer's Disease. <i>Journal of Alzheimers Disease</i> , <b>2016</b> , 50, 397-409	4.3	7
24	Physical Activity Ameliorates Impaired Hippocampal Neurogenesis in the Tg4-42 Mouse Model of Alzheimer's Disease. <i>ASN Neuro</i> , <b>2019</b> , 11, 1759091419892692	5.3	7

23	Loss of Hippocampal Calretinin and Parvalbumin Interneurons in the 5XFAD Mouse Model of Alzheimer's Disease. <i>ASN Neuro</i> , <b>2020</b> , 12, 1759091420925356	5.3	6
22	Altered cholesterol metabolism in APP695-transfected neuroblastoma cells. <i>Brain Research</i> , <b>2007</b> , 1152, 209-14	3.7	6
21	Development and Technical Validation of an Immunoassay for the Detection of APP (A $\beta$ ) in Biological Samples. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	5
20	Long-term caffeine treatment of Alzheimer mouse models ameliorates behavioural deficits and neuron loss and promotes cellular and molecular markers of neurogenesis.. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 79, 1	10.3	4
19	Immunotherapy Against N-Truncated Amyloid- $\beta$ Oligomers. <i>Methods in Pharmacology and Toxicology</i> , <b>2016</b> , 37-50	1.1	3
18	The presubiculum is preserved from neurodegenerative changes in Alzheimer's disease. <i>Acta Neuropathologica Communications</i> , <b>2018</b> , 6, 62	7.3	3
17	A microRNA signature that correlates with cognition and is a target against cognitive decline. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e13659	12	3
16	Ageing-associated myelin dysfunction drives amyloid deposition in mouse models of Alzheimer's disease		3
15	N-Terminally Truncated A $\beta$ Peptide Variants in Alzheimer's Disease107-122		2
14	Early Intraneuronal $\beta$ Amyloid Pathology: Do Transgenic Mice Represent Valid Model Systems? <b>2008</b> , 2, 7-12		2
13	Extraction of Soluble and Insoluble Protein Fractions from Mouse Brains and Spinal Cords. <i>Bio-protocol</i> , <b>2017</b> , 7, e2422	0.9	2
12	Evaluation of cerebrospinal fluid glycoprotein NMB (GPNMB) as a potential biomarker for Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , <b>2021</b> , 13, 94	9	2
11	Physical activity and cognitive stimulation ameliorate learning and motor deficits in a transgenic mouse model of Alzheimer's disease. <i>Behavioural Brain Research</i> , <b>2021</b> , 397, 112951	3.4	2
10	Detection and Quantification of A $\beta$ -40 (APP669-711) in Cerebrospinal Fluid.. <i>Journal of Neurochemistry</i> , <b>2022</b> ,	6	1
9	Interferon-driven brain phenotype in a mouse model of RNaseT2 deficient leukoencephalopathy. <i>Nature Communications</i> , <b>2021</b> , 12, 6530	17.4	1
8	Immunotherapy Targeting Amyloid- $\beta$ Peptides in Alzheimer's Disease23-49		1
7	Characterization of a Mouse Model of Alzheimer's Disease Expressing A $\beta$ -42 and Human Mutant Tau. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
6	The anti-parallel dimer binding interface in STAT3 transcription factor is required for the inactivation of cytokine-mediated signal transduction. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2021</b> , 1868, 119118	4.9	0

- 5 Meprin  $\beta$  knockout reduces brain A $\beta$  levels and rescues learning and memory impairments in the APP/Jon mouse model for Alzheimer's disease.. *Cellular and Molecular Life Sciences*, **2022**, 79, 168 10.3 0
- 4 Problems During Aging (Alzheimer's and Others) **2013**, 2953-2969
- 3 Die modifizierte Amyloid-Hypothese der Alzheimer-Demenz  $\beta$  Intra neuronales Abeta induziert Neurodegeneration. *E-Neuroforum*, **2009**, 15, 76-83
- 2 Immunocytochemical Detection of Intra neuronal A $\beta$  Peptides in Mouse Models of Alzheimer's Disease. *Neuro methods*, **2015**, 179-193 0.4
- 1 An inhibitory effect on the nuclear accumulation of phospho-STAT1 by its unphosphorylated form.. *Cell Communication and Signaling*, **2022**, 20, 42 7.5