Dieter Edbauer

List of Publications by Year
in descending order

92	13,583	26630 56	45317 90
papers	citations	h-index	g-index

100	100	100	13126
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The C9orf72 GGGGCC Repeat Is Translated into Aggregating Dipeptide-Repeat Proteins in FTLD/ALS. Science, 2013, 339, 1335-1338.	12.6	1,095
2	Reconstitution of Î³-secretase activity. Nature Cell Biology, 2003, 5, 486-488.	10.3	850
3	ALS-associated fused in sarcoma (FUS) mutations disrupt Transportin-mediated nuclear import. EMBO Journal, 2010, 29, 2841-2857.	7.8	717
4	Regulation of Synaptic Structure and Function by FMRP-Associated MicroRNAs miR-125b and miR-132. Neuron, 2010, 65, 373-384.	8.1	657
5	Gain of Toxicity from ALS/FTD-Linked Repeat Expansions in C9ORF72 Is Alleviated by Antisense Oligonucleotides Targeting GGGGCC-Containing RNAs. Neuron, 2016, 90, 535-550.	8.1	437
6	Bidirectional transcripts of the expanded C9orf72 hexanucleotide repeat are translated into aggregating dipeptide repeat proteins. Acta Neuropathologica, 2013, 126, 881-893.	7.7	427
7	Loss of TREM2 function increases amyloid seeding but reduces plaque-associated ApoE. Nature Neuroscience, 2019, 22, 191-204.	14.8	358
8	C9ORF72 repeat expansions in mice cause TDP-43 pathology, neuronal loss, and behavioral deficits. Science, 2015, 348, 1151-1154.	12.6	332
9	In Situ Structure of Neuronal C9orf72 Poly-GA Aggregates Reveals Proteasome Recruitment. Cell, 2018, 172, 696-705.e12.	28.9	311
10	microRNA-34c is a novel target to treat dementias. EMBO Journal, 2011, 30, 4299-4308.	7.8	302
11	hnRNP A3 binds to GGGGCC repeats and is a constituent of p62-positive/TDP43-negative inclusions in the hippocampus of patients with C9orf72 mutations. Acta Neuropathologica, 2013, 125, 413-423.	7.7	302
12	C9orf72 FTLD/ALS-associated Gly-Ala dipeptide repeat proteins cause neuronal toxicity and Unc119 sequestration. Acta Neuropathologica, 2014, 128, 485-503.	7.7	300
13	Dipeptide repeat protein pathology in C9ORF72 mutation cases: clinico-pathological correlations. Acta Neuropathologica, 2013, 126, 859-879.	7.7	298
14	MicroRNA-132 dysregulation in schizophrenia has implications for both neurodevelopment and adult brain function. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3125-3130.	7.1	277
15	C9ORF72 poly(GA) aggregates sequester and impair HR23 and nucleocytoplasmic transport proteins. Nature Neuroscience, 2016, 19, 668-677.	14.8	268
16	Presenilin-1 mutations of leucine 166 equally affect the generation of the Notch and APP intracellular domains independent of their effect on Aî² ₄₂ production. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8025-8030.	7.1	265
17	Micro<scp>RNA</scp>â€125b induces tau hyperphosphorylation and cognitive deficits in Alzheimer's disease. EMBO Journal, 2014, 33, 1667-1680.	7.8	257
18	Role of Septin Cytoskeleton in Spine Morphogenesis and Dendrite Development in Neurons. Current Biology, 2007, 17, 1752-1758.	3.9	255

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19	Presenilin-dependent Intramembrane Proteolysis of CD44 Leads to the Liberation of Its Intracellular Domain and the Secretion of an AÎ²-like Peptide. Journal of Biological Chemistry, 2002, 277, 44754-44759.	3.4	253
20	Sequestration of multiple RNA recognition motif-containing proteins by C9orf72 repeat expansions. Brain, 2014, 137, 2040-2051.	7.6	253
21	PEN-2 Is an Integral Component of the Î³-Secretase Complex Required for Coordinated Expression of Presenilin and Nicastrin. Journal of Biological Chemistry, 2002, 277, 39062-39065.	3.4	244
22	Presenilin and nicastrin regulate each other and determine amyloid Â-peptide production via complex formation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8666-8671.	7.1	229
23	Quantitative analysis and clinico-pathological correlations of different dipeptide repeat protein pathologies in C9ORF72 mutation carriers. Acta Neuropathologica, 2015, 130, 845-861.	7.7	204
24	The C9orf72 repeat size correlates with onset age of disease, DNA methylation and transcriptional downregulation of the promoter. Molecular Psychiatry, 2016, 21, 1112-1124.	7.9	201
25	Insulin-degrading Enzyme Rapidly Removes the Î²-Amyloid Precursor Protein Intracellular Domain (AICD). Journal of Biological Chemistry, 2002, 277, 13389-13393.	3.4	185
26	Distinct Roles of NR2A and NR2B Cytoplasmic Tails in Long-Term Potentiation. Journal of Neuroscience, 2010, 30, 2676-2685.	3.6	184
27	Presenilin-1 affects trafficking and processing of Î²APP and is targeted in a complex with nicastrin to the plasma membrane. Journal of Cell Biology, 2002, 158, 551-561.	5.2	179
28	miR-132, an experience-dependent microRNA, is essential for visual cortex plasticity. Nature Neuroscience, 2011, 14, 1240-1242.	14.8	167
29	Distribution of dipeptide repeat proteins in cellular models and C9orf72 mutation cases suggests link to transcriptional silencing. Acta Neuropathologica, 2015, 130, 537-555.	7.7	157
30	Identification of Distinct Î³-Secretase Complexes with Different APH-1 Variants. Journal of Biological Chemistry, 2004, 279, 41340-41345.	3.4	149
31	Good guy or bad guy: the opposing roles of microRNA 125b in cancer. Cell Communication and Signaling, 2014, 12, 30.	6.5	144
32	Membrane Orientation and Subcellular Localization of Transmembrane Protein 106B (TMEM106B), a Major Risk Factor for Frontotemporal Lobar Degeneration. Journal of Biological Chemistry, 2012, 287, 19355-19365.	3.4	126
33	Loss of ALS-associated TDP-43 in zebrafish causes muscle degeneration, vascular dysfunction, and reduced motor neuron axon outgrowth. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4986-4991.	7.1	126
34	The FTLD risk factor TMEM106B and MAP6 control dendritic trafficking of lysosomes. EMBO Journal, 2013, 33, n/a-n/a.	7.8	122
35	RNA-Dependent Intergenerational Inheritance of Enhanced Synaptic Plasticity after Environmental Enrichment. Cell Reports, 2018, 23, 546-554.	6.4	113
36	Genetic modifications of the adeno-associated virus type 2 capsid reduce the affinity and the neutralizing effects of human serum antibodies. Gene Therapy, 2003, 10, 2139-2147.	4.5	112

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37	Requirement of PEN-2 for Stabilization of the Presenilin N-/C-terminal Fragment Heterodimer within the Î³-Secretase Complex. Journal of Biological Chemistry, 2004, 279, 23255-23261.	3.4	107
38	Dual Cleavage of Neuregulin 1 Type III by BACE1 and ADAM17 Liberates Its EGF-Like Domain and Allows Paracrine Signaling. Journal of Neuroscience, 2013, 33, 7856-7869.	3.6	104
39	Novel clinical associations with specific C9ORF72 transcripts in patients with repeat expansions in C9ORF72. Acta Neuropathologica, 2015, 130, 863-876.	7.7	104
40	Spinal poly-GA inclusions in a C9orf72 mouse model trigger motor deficits and inflammation without neuron loss. Acta Neuropathologica, 2017, 134, 241-254.	7.7	99
41	The presenilin C-terminus is required for ER-retention, nicastrin-binding and Î³-secretase activity. EMBO Journal, 2004, 23, 4738-4748.	7.8	91
42	Polyâ€<scp>GP</scp> in cerebrospinal fluid links C9orf72â€associated dipeptide repeat expression to the asymptomatic phase of <scp>ALS</scp>/<scp>FTD</scp>. EMBO Molecular Medicine, 2017, 9, 859-868.	6.9	90
43	Genome-wide analyses as part of the international FTLD-TDP whole-genome sequencing consortium reveals novel disease risk factors and increases support for immune dysfunction in FTLD. Acta Neuropathologica, 2019, 137, 879-899.	7.7	90
44	Î³-Secretase Activity Is Associated with a Conformational Change of Nicastrin. Journal of Biological Chemistry, 2003, 278, 16474-16477.	3.4	89
45	Cerebellar c9RAN proteins associate with clinical and neuropathological characteristics of C9ORF72 repeat expansion carriers. Acta Neuropathologica, 2015, 130, 559-573.	7.7	89
46	Proteomics and C9orf72 neuropathology identify ribosomes as poly-GR/PR interactors driving toxicity. Life Science Alliance, 2018, 1, e201800070.	2.8	88
47	Novel antibodies reveal presynaptic localization of C9orf72 protein and reduced protein levels in C9orf72 mutation carriers. Acta Neuropathologica Communications, 2018, 6, 72.	5.2	87
48	Cytoplasmic poly-GA aggregates impair nuclear import of TDP-43 in C9orf72 ALS/FTLD. Human Molecular Genetics, 2017, 26, ddw432.	2.9	82
49	Staufen2 Regulates Neuronal Target RNAs. Cell Reports, 2013, 5, 1511-1518.	6.4	78
50	TDPâ€43 loss of function inhibits endosomal trafficking and alters trophic signaling in neurons. EMBO Journal, 2016, 35, 2350-2370.	7.8	76
51	Monomethylated and unmethylated FUS exhibit increased binding to Transportin and distinguish FTLD-FUS from ALS-FUS. Acta Neuropathologica, 2016, 131, 587-604.	7.7	76
52	Loss of fused in sarcoma (FUS) promotes pathological Tau splicing. EMBO Reports, 2012, 13, 759-764.	4.5	73
53	Antibodies inhibit transmission and aggregation of C9orf72 polyâ€•<scp>GA</scp> dipeptide repeat proteins. EMBO Molecular Medicine, 2017, 9, 687-702.	6.9	70
54	Nuclear Import Receptors Directly Bind to Arginine-Rich Dipeptide Repeat Proteins and Suppress Their Pathological Interactions. Cell Reports, 2020, 33, 108538.	6.4	69

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55	Diseaseâ€linked TDPâ€43 hyperphosphorylation suppresses TDPâ€43 condensation and aggregation. EMBO Journal, 2022, 41, e108443.	7.8	68
56	Early dipeptide repeat pathology in a frontotemporal dementia kindred with C9ORF72 mutation and intellectual disability. Acta Neuropathologica, 2014, 127, 451-458.	7.7	67
57	Immature nicastrin stabilizes APHâ€1 independent of PENâ€2 and presenilin: identification of nicastrin mutants that selectively interact with APHâ€1. Journal of Neurochemistry, 2004, 89, 1520-1527.	3.9	60
58	An amyloid-like cascade hypothesis for C9orf72 ALS/FTD. Current Opinion in Neurobiology, 2016, 36, 99-106.	4.2	59
59	Glycine-alanine dipeptide repeat protein contributes to toxicity in a zebrafish model of C9orf72 associated neurodegeneration. Molecular Neurodegeneration, 2017, 12, 6.	10.8	57
60	Nicastrin Interacts with Î³-Secretase Complex Components via the N-terminal Part of Its Transmembrane Domain. Journal of Biological Chemistry, 2003, 278, 52519-52523.	3.4	54
61	Cellâ€toâ€cell transmission of C9orf72 polyâ€(Glyâ€Ala) triggers key features of <scp>ALS</scp> / <scp>FTD</scp>. EMBO Journal, 2020, 39, e102811.	7.8	51
62	Poly-glycineâ€“alanine exacerbates C9orf72 repeat expansion-mediated DNA damage via sequestration of phosphorylated ATM and loss of nuclear hnRNPA3. Acta Neuropathologica, 2020, 139, 99-118.	7.7	49
63	Knocking out C9ORF72 Exacerbates Axonal Trafficking Defects Associated with Hexanucleotide Repeat Expansion and Reduces Levels of Heat Shock Proteins. Stem Cell Reports, 2020, 14, 390-405.	4.8	48
64	Congenic expression of poly-GA but not poly-PR in mice triggers selective neuron loss and interferon responses found in C9orf72 ALS. Acta Neuropathologica, 2020, 140, 121-142.	7.7	44
65	Promoter DNA methylation regulates progranulin expression and is altered in FTLD. Acta Neuropathologica Communications, 2013, 1, 16.	5.2	43
66	A novel CHCHD10 mutation implicates a Mia40â€dependent mitochondrial import deficit in ALS. EMBO Molecular Medicine, 2018, 10, .	6.9	43
67	Proteolytic Processing of Neuregulin 1 Type III by Three Intramembrane-cleaving Proteases. Journal of Biological Chemistry, 2016, 291, 318-333.	3.4	42
68	Atrophy in the Thalamus But Not Cerebellum Is Specific for C9orf72 FTD and ALS Patients â€“ An Atlas-Based Volumetric MRI Study. Frontiers in Aging Neuroscience, 2018, 10, 45.	3.4	40
69	FUS-mediated alternative splicing in the nervous system: consequences for ALS and FTLD. Journal of Molecular Medicine, 2013, 91, 1343-1354.	3.9	39
70	Reduced hn <scp>RNPA</scp> 3 increases C9orf72 repeat <scp>RNA</scp> levels and dipeptideâ€repeat protein deposition. EMBO Reports, 2016, 17, 1314-1325.	4.5	39
71	Active polyâ€GA vaccination prevents microglia activation and motor deficits in a C9orf72 mouse model. EMBO Molecular Medicine, 2020, 12, e10919.	6.9	39
72	Synaptic dysfunction induced by glycineâ€alanine dipeptides in C9orf72â€•<scp>ALS</scp> / <scp>FTD</scp> is rescued by <scp>SV</scp> 2 replenishment. EMBO Molecular Medicine, 2020, 12, e10722.	6.9	38

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73	Loss of <scp>TMEM</scp> 106B potentiates lysosomal and <scp>FTLD</scp> â€like pathology in progranulinâ€deficient mice. EMBO Reports, 2020, 21, e50241.	4.5	37
74	Identification and Characterization of Neuronal Mitogen-activated Protein Kinase Substrates Using a Specific Phosphomotif Antibody. Molecular and Cellular Proteomics, 2009, 8, 681-695.	3.8	35
75	FDG-PET underscores the key role of the thalamus in frontotemporal lobar degeneration caused by C9ORF72 mutations. Translational Psychiatry, 2019, 9, 54.	4.8	28
76	Gelâ€like inclusions of Câ€terminal fragments of TDPâ€43 sequester stalled proteasomes in neurons. EMBO Reports, 2022, 23, e53890.	4.5	28
77	Chronic T cell proliferation in brains after stroke could interfere with the efficacy of immunotherapies. Journal of Experimental Medicine, 2021, 218, .	8.5	26
78	Co-expression of Nicastrin and Presenilin Rescues a Loss of Function Mutant of APH-1. Journal of Biological Chemistry, 2004, 279, 37311-37315.	3.4	25
79	The porphyrin TMPyP4 inhibits elongation during the noncanonical translation of the FTLD/ALS-associated GGGGCC repeat in the C9orf72 gene. Journal of Biological Chemistry, 2021, 297, 101120.	3.4	17
80	Targeting RNA Gâ€quadruplexes as new treatment strategy for C9orf72 ALS / FTD. EMBO Molecular Medicine, 2018, 10, 4-6.	6.9	10
81	Three novel presenilin 1 mutations marking the wide spectrum of age at onset and clinical patterns in familial Alzheimerâ€™s disease. Journal of Neural Transmission, 2015, 122, 1715-1719.	2.8	8
82	RNA versus protein toxicity in C9orf72 ALS/FTLD. Acta Neuropathologica, 2018, 135, 475-479.	7.7	8
83	Drug screen in iPSC-Neurons identifies nucleoside analogs as inhibitors of (G4C2)n expression in C9orf72 ALS/FTD. Cell Reports, 2022, 39, 110913.	6.4	7
84	Multi-omics profiling identifies a deregulated FUS-MAP1B axis in ALS/FTDâ€“associated UBQLN2 mutants. Life Science Alliance, 2022, 5, e202101327.	2.8	6
85	Regulation of Synaptic Structure and Function by FMRP-Associated MicroRNAs miR-125b and miR-132. Neuron, 2010, 68, 161.	8.1	4
86	The ER under rapid fire. EMBO Journal, 2014, 33, 1195-7.	7.8	4
87	Low-degree trisomy 21 mosaicism promotes early-onset Alzheimer disease. Neurobiology of Aging, 2021, 103, 147.e1-147.e5.	3.1	4
88	Strategies to Generate Molecular and Cellular Tumor Vaccines for Low Grade Non-Hodgkinâ€™s Lymphoma. Arzneimittelforschung, 1999, 49, 171-171.	0.4	0
89	P4-192 Structure-function analysis of the gamma-secretase complex subunit PEN-2. Neurobiology of Aging, 2004, 25, S530.	3.1	0
90	O4-04-06 Î²-Amyloid precursor protein intracellular domain (AICD) strongly enhances resting free cytosolic calcium levels. Neurobiology of Aging, 2004, 25, S81.	3.1	0

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91	Editorial. Journal of Neural Transmission, 2015, 122, 933-936.	2.8	0
92	[S5â€“01â€“03]: C9ORF72 TRANSLATION AND DISEASE. Alzheimer's and Dementia, 2017, 13, P1444.	0.8	0