

# Dieter Edbauer

## List of Publications by Year in descending order

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92  
papers

13,583  
citations

26567

56  
h-index

45213

90  
g-index

100  
all docs

100  
docs citations

100  
times ranked

13126  
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>C9orf72</i> GGGGCC Repeat Is Translated into Aggregating Dipeptide-Repeat Proteins in FTLD/ALS. <i>Science</i> , 2013, 339, 1335-1338.	6.0	1,095
2	Reconstitution of $\beta$ -secretase activity. <i>Nature Cell Biology</i> , 2003, 5, 486-488.	4.6	850
3	ALS-associated fused in sarcoma (FUS) mutations disrupt Transportin-mediated nuclear import. <i>EMBO Journal</i> , 2010, 29, 2841-2857.	3.5	717
4	Regulation of Synaptic Structure and Function by FMRP-Associated MicroRNAs miR-125b and miR-132. <i>Neuron</i> , 2010, 65, 373-384.	3.8	657
5	Gain of Toxicity from ALS/FTD-Linked Repeat Expansions in C9ORF72 Is Alleviated by Antisense Oligonucleotides Targeting GGGGCC-Containing RNAs. <i>Neuron</i> , 2016, 90, 535-550.	3.8	437
6	Bidirectional transcripts of the expanded C9orf72 hexanucleotide repeat are translated into aggregating dipeptide repeat proteins. <i>Acta Neuropathologica</i> , 2013, 126, 881-893.	3.9	427
7	Loss of TREM2 function increases amyloid seeding but reduces plaque-associated ApoE. <i>Nature Neuroscience</i> , 2019, 22, 191-204.	7.1	358
8	<i>C9ORF72</i> repeat expansions in mice cause TDP-43 pathology, neuronal loss, and behavioral deficits. <i>Science</i> , 2015, 348, 1151-1154.	6.0	332
9	In Situ Structure of Neuronal C9orf72 Poly-GA Aggregates Reveals Proteasome Recruitment. <i>Cell</i> , 2018, 172, 696-705.e12.	13.5	311
10	microRNA-34c is a novel target to treat dementias. <i>EMBO Journal</i> , 2011, 30, 4299-4308.	3.5	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. <i>Acta Neuropathologica</i> , 2013, 125, 413-423.	3.9	302
12	C9orf72 FTLD/ALS-associated Gly-Ala dipeptide repeat proteins cause neuronal toxicity and Unc119 sequestration. <i>Acta Neuropathologica</i> , 2014, 128, 485-503.	3.9	300
13	Dipeptide repeat protein pathology in C9ORF72 mutation cases: clinico-pathological correlations. <i>Acta Neuropathologica</i> , 2013, 126, 859-879.	3.9	298
14	MicroRNA-132 dysregulation in schizophrenia has implications for both neurodevelopment and adult brain function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3125-3130.	3.3	277
15	C9ORF72 poly(GA) aggregates sequester and impair HR23 and nucleocytoplasmic transport proteins. <i>Nature Neuroscience</i> , 2016, 19, 668-677.	7.1	268
16	Presenilin-1 mutations of leucine 166 equally affect the generation of the Notch and APP intracellular domains independent of their effect on A $\beta$ 42 production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8025-8030.	3.3	265
17	MicroRNA-125b induces tau hyperphosphorylation and cognitive deficits in Alzheimer's disease. <i>EMBO Journal</i> , 2014, 33, 1667-1680.	3.5	257
18	Role of Septin Cytoskeleton in Spine Morphogenesis and Dendrite Development in Neurons. <i>Current Biology</i> , 2007, 17, 1752-1758.	1.8	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 A $\beta$ -like Peptide. <i>Journal of Biological Chemistry</i> , 2002, 277, 44754-44759.	1.6	253
20	Sequestration of multiple RNA recognition motif-containing proteins by C9orf72 repeat expansions. <i>Brain</i> , 2014, 137, 2040-2051.	3.7	253
21	PEN-2 Is an Integral Component of the $\gamma$ -Secretase Complex Required for Coordinated Expression of Presenilin and Nicastrin. <i>Journal of Biological Chemistry</i> , 2002, 277, 39062-39065.	1.6	244
22	Presenilin and nicastrin regulate each other and determine amyloid A-peptide production via complex formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8666-8671.	3.3	229
23	Quantitative analysis and clinico-pathological correlations of different dipeptide repeat protein pathologies in C9ORF72 mutation carriers. <i>Acta Neuropathologica</i> , 2015, 130, 845-861.	3.9	204
24	The C9orf72 repeat size correlates with onset age of disease, DNA methylation and transcriptional downregulation of the promoter. <i>Molecular Psychiatry</i> , 2016, 21, 1112-1124.	4.1	201
25	Insulin-degrading Enzyme Rapidly Removes the $\beta$ -Amyloid Precursor Protein Intracellular Domain (AICD). <i>Journal of Biological Chemistry</i> , 2002, 277, 13389-13393.	1.6	185
26	Distinct Roles of NR2A and NR2B Cytoplasmic Tails in Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2010, 30, 2676-2685.	1.7	184
27	Presenilin-1 affects trafficking and processing of $\beta$ APP and is targeted in a complex with nicastrin to the plasma membrane. <i>Journal of Cell Biology</i> , 2002, 158, 551-561.	2.3	179
28	miR-132, an experience-dependent microRNA, is essential for visual cortex plasticity. <i>Nature Neuroscience</i> , 2011, 14, 1240-1242.	7.1	167
29	Distribution of dipeptide repeat proteins in cellular models and C9orf72 mutation cases suggests link to transcriptional silencing. <i>Acta Neuropathologica</i> , 2015, 130, 537-555.	3.9	157
30	Identification of Distinct $\gamma$ -Secretase Complexes with Different APH-1 Variants. <i>Journal of Biological Chemistry</i> , 2004, 279, 41340-41345.	1.6	149
31	Good guy or bad guy: the opposing roles of microRNA 125b in cancer. <i>Cell Communication and Signaling</i> , 2014, 12, 30.	2.7	144
32	Membrane Orientation and Subcellular Localization of Transmembrane Protein 106B (TMEM106B), a Major Risk Factor for Frontotemporal Lobar Degeneration. <i>Journal of Biological Chemistry</i> , 2012, 287, 19355-19365.	1.6	126
33	Loss of ALS-associated TDP-43 in zebrafish causes muscle degeneration, vascular dysfunction, and reduced motor neuron axon outgrowth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4986-4991.	3.3	126
34	The FTL risk factor TMEM106B and MAP6 control dendritic trafficking of lysosomes. <i>EMBO Journal</i> , 2013, 33, n/a-n/a.	3.5	122
35	RNA-Dependent Intergenerational Inheritance of Enhanced Synaptic Plasticity after Environmental Enrichment. <i>Cell Reports</i> , 2018, 23, 546-554.	2.9	113
36	Genetic modifications of the adeno-associated virus type 2 capsid reduce the affinity and the neutralizing effects of human serum antibodies. <i>Gene Therapy</i> , 2003, 10, 2139-2147.	2.3	112

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37	Requirement of PEN-2 for Stabilization of the Presenilin N-/C-terminal Fragment Heterodimer within the $\beta$ -Secretase Complex. <i>Journal of Biological Chemistry</i> , 2004, 279, 23255-23261.	1.6	107
38	Dual Cleavage of Neuregulin 1 Type III by BACE1 and ADAM17 Liberates Its EGF-Like Domain and Allows Paracrine Signaling. <i>Journal of Neuroscience</i> , 2013, 33, 7856-7869.	1.7	104
39	Novel clinical associations with specific C9ORF72 transcripts in patients with repeat expansions in C9ORF72. <i>Acta Neuropathologica</i> , 2015, 130, 863-876.	3.9	104
40	Spinal poly-GA inclusions in a C9orf72 mouse model trigger motor deficits and inflammation without neuron loss. <i>Acta Neuropathologica</i> , 2017, 134, 241-254.	3.9	99
41	The presenilin C-terminus is required for ER-retention, nicastrin-binding and $\beta$ -secretase activity. <i>EMBO Journal</i> , 2004, 23, 4738-4748.	3.5	91
42	Poly $\epsilon$ -GP in cerebrospinal fluid links C9orf72-associated dipeptide repeat expression to the asymptomatic phase of ALS/FTD. <i>EMBO Molecular Medicine</i> , 2017, 9, 859-868.	3.3	90
43	Genome-wide analyses as part of the international FTLT-DTP whole-genome sequencing consortium reveals novel disease risk factors and increases support for immune dysfunction in FTLT. <i>Acta Neuropathologica</i> , 2019, 137, 879-899.	3.9	90
44	$\beta$ -Secretase Activity Is Associated with a Conformational Change of Nicastrin. <i>Journal of Biological Chemistry</i> , 2003, 278, 16474-16477.	1.6	89
45	Cerebellar c9RAN proteins associate with clinical and neuropathological characteristics of C9ORF72 repeat expansion carriers. <i>Acta Neuropathologica</i> , 2015, 130, 559-573.	3.9	89
46	Proteomics and C9orf72 neuropathology identify ribosomes as poly-GR/PR interactors driving toxicity. <i>Life Science Alliance</i> , 2018, 1, e201800070.	1.3	88
47	Novel antibodies reveal presynaptic localization of C9orf72 protein and reduced protein levels in C9orf72 mutation carriers. <i>Acta Neuropathologica Communications</i> , 2018, 6, 72.	2.4	87
48	Cytoplasmic poly-GA aggregates impair nuclear import of TDP-43 in C9orf72 ALS/FTLD. <i>Human Molecular Genetics</i> , 2017, 26, ddw432.	1.4	82
49	Staufen2 Regulates Neuronal Target RNAs. <i>Cell Reports</i> , 2013, 5, 1511-1518.	2.9	78
50	TDP-43 loss of function inhibits endosomal trafficking and alters trophic signaling in neurons. <i>EMBO Journal</i> , 2016, 35, 2350-2370.	3.5	76
51	Monomethylated and unmethylated FUS exhibit increased binding to Transportin and distinguish FTLT-FUS from ALS-FUS. <i>Acta Neuropathologica</i> , 2016, 131, 587-604.	3.9	76
52	Loss of fused in sarcoma (FUS) promotes pathological Tau splicing. <i>EMBO Reports</i> , 2012, 13, 759-764.	2.0	73
53	Antibodies inhibit transmission and aggregation of C9orf72 poly $\epsilon$ -GA dipeptide repeat proteins. <i>EMBO Molecular Medicine</i> , 2017, 9, 687-702.	3.3	70
54	Nuclear Import Receptors Directly Bind to Arginine-Rich Dipeptide Repeat Proteins and Suppress Their Pathological Interactions. <i>Cell Reports</i> , 2020, 33, 108538.	2.9	69

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55	Disease-linked TDP <sup>43</sup> hyperphosphorylation suppresses TDP <sup>43</sup> condensation and aggregation. <i>EMBO Journal</i> , 2022, 41, e108443.	3.5	68
56	Early dipeptide repeat pathology in a frontotemporal dementia kindred with C9ORF72 mutation and intellectual disability. <i>Acta Neuropathologica</i> , 2014, 127, 451-458.	3.9	67
57	Immature nicastrin stabilizes APH <sup>1</sup> independent of PEN <sup>2</sup> and presenilin: identification of nicastrin mutants that selectively interact with APH <sup>1</sup> . <i>Journal of Neurochemistry</i> , 2004, 89, 1520-1527.	2.1	60
58	An amyloid-like cascade hypothesis for C9orf72 ALS/FTD. <i>Current Opinion in Neurobiology</i> , 2016, 36, 99-106.	2.0	59
59	Glycine-alanine dipeptide repeat protein contributes to toxicity in a zebrafish model of C9orf72 associated neurodegeneration. <i>Molecular Neurodegeneration</i> , 2017, 12, 6.	4.4	57
60	Nicastrin Interacts with $\beta$ -Secretase Complex Components via the N-terminal Part of Its Transmembrane Domain. <i>Journal of Biological Chemistry</i> , 2003, 278, 52519-52523.	1.6	54
61	Cell-to-cell transmission of C9orf72 poly(Gly-Ala) triggers key features of ALS / FTD. <i>EMBO Journal</i> , 2020, 39, e102811.	3.5	51
62	Poly-glycine-alanine exacerbates C9orf72 repeat expansion-mediated DNA damage via sequestration of phosphorylated ATM and loss of nuclear hnRNP A3. <i>Acta Neuropathologica</i> , 2020, 139, 99-118.	3.9	49
63	Knocking out C9ORF72 Exacerbates Axonal Trafficking Defects Associated with Hexanucleotide Repeat Expansion and Reduces Levels of Heat Shock Proteins. <i>Stem Cell Reports</i> , 2020, 14, 390-405.	2.3	48
64	Congenetic expression of poly-GA but not poly-PR in mice triggers selective neuron loss and interferon responses found in C9orf72 ALS. <i>Acta Neuropathologica</i> , 2020, 140, 121-142.	3.9	44
65	Promoter DNA methylation regulates progranulin expression and is altered in FTL. <i>Acta Neuropathologica Communications</i> , 2013, 1, 16.	2.4	43
66	A novel CHCHD10 mutation implicates a Mia40-dependent mitochondrial import deficit in ALS. <i>EMBO Molecular Medicine</i> , 2018, 10, .	3.3	43
67	Proteolytic Processing of Neuregulin 1 Type III by Three Intramembrane-cleaving Proteases. <i>Journal of Biological Chemistry</i> , 2016, 291, 318-333.	1.6	42
68	Atrophy in the Thalamus But Not Cerebellum Is Specific for C9orf72 FTD and ALS Patients – An Atlas-Based Volumetric MRI Study. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 45.	1.7	40
69	FUS-mediated alternative splicing in the nervous system: consequences for ALS and FTL. <i>Journal of Molecular Medicine</i> , 2013, 91, 1343-1354.	1.7	39
70	Reduced hnRNP A3 increases C9orf72 repeat RNA levels and dipeptide repeat protein deposition. <i>EMBO Reports</i> , 2016, 17, 1314-1325.	2.0	39
71	Active poly-GA vaccination prevents microglia activation and motor deficits in a C9orf72 mouse model. <i>EMBO Molecular Medicine</i> , 2020, 12, e10919.	3.3	39
72	Synaptic dysfunction induced by glycine-alanine dipeptides in C9orf72 ALS / FTD is rescued by SV2 replenishment. <i>EMBO Molecular Medicine</i> , 2020, 12, e10722.	3.3	38

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73	Loss of <sc>TMEM</sc> 106B potentiates lysosomal and <sc>FTLD</sc> -like pathology in progranulin-deficient mice. EMBO Reports, 2020, 21, e50241.	2.0	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.	2.5	35
75	FDG-PET underscores the key role of the thalamus in frontotemporal lobar degeneration caused by C9ORF72 mutations. Translational Psychiatry, 2019, 9, 54.	2.4	28
76	Gel-like inclusions of C-terminal fragments of TDP43 sequester stalled proteasomes in neurons. EMBO Reports, 2022, 23, e53890.	2.0	28
77	Chronic T cell proliferation in brains after stroke could interfere with the efficacy of immunotherapies. Journal of Experimental Medicine, 2021, 218, .	4.2	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.	1.6	25
79	The porphyrin TMPyP4 inhibits elongation during the noncanonical translation of the FTL/ALS-associated GGGGCC repeat in the C9orf72 gene. Journal of Biological Chemistry, 2021, 297, 101120.	1.6	17
80	Targeting RNA G-quadruplexes as new treatment strategy for C9orf72 ALS / FTD. EMBO Molecular Medicine, 2018, 10, 4-6.	3.3	10
81	Three novel presenilin 1 mutations marking the wide spectrum of age at onset and clinical patterns in familial Alzheimer's disease. Journal of Neural Transmission, 2015, 122, 1715-1719.	1.4	8
82	RNA versus protein toxicity in C9orf72 ALS/FTLD. Acta Neuropathologica, 2018, 135, 475-479.	3.9	8
83	Drug screen in iPSC-Neurons identifies nucleoside analogs as inhibitors of (G4C2) <sub>n</sub> expression in C9orf72 ALS/FTD. Cell Reports, 2022, 39, 110913.	2.9	7
84	Multi-omics profiling identifies a deregulated FUS-MAP1B axis in ALS/FTD-associated UBQLN2 mutants. Life Science Alliance, 2022, 5, e202101327.	1.3	6
85	Regulation of Synaptic Structure and Function by FMRP-Associated MicroRNAs miR-125b and miR-132. Neuron, 2010, 68, 161.	3.8	4
86	The ER under rapid fire. EMBO Journal, 2014, 33, 1195-7.	3.5	4
87	Low-degree trisomy 21 mosaicism promotes early-onset Alzheimer disease. Neurobiology of Aging, 2021, 103, 147.e1-147.e5.	1.5	4
88	Strategies to Generate Molecular and Cellular Tumor Vaccines for Low Grade Non-Hodgkin's Lymphoma. Arzneimittelforschung, 1999, 49, 171-171.	0.5	0
89	P4-192 Structure-function analysis of the gamma-secretase complex subunit PEN-2. Neurobiology of Aging, 2004, 25, S530.	1.5	0
90	O4-04-06 A2-Amyloid precursor protein intracellular domain (AICD) strongly enhances resting free cytosolic calcium levels. Neurobiology of Aging, 2004, 25, S81.	1.5	0

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91	Editorial. Journal of Neural Transmission, 2015, 122, 933-936.	1.4	0
92	[S5â€™01â€™03]: C9ORF72 TRANSLATION AND DISEASE. Alzheimer's and Dementia, 2017, 13, P1444.	0.4	0