

Dieter Edbauer

List of Publications by Year in descending order

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92
papers

13,583
citations

26630

56
h-index

45317

90
g-index

100
all docs

100
docs citations

100
times ranked

13126
citing authors

#	ARTICLE	IF	CITATIONS
1	Disease-linked TDP43 hyperphosphorylation suppresses TDP43 condensation and aggregation. <i>EMBO Journal</i> , 2022, 41, e108443.	7.8	68
2	Gel-like inclusions of C-terminal fragments of TDP43 sequester stalled proteasomes in neurons. <i>EMBO Reports</i> , 2022, 23, e53890.	4.5	28
3	Drug screen in iPSC-Neurons identifies nucleoside analogs as inhibitors of (G4C2) _n expression in C9orf72 ALS/FTD. <i>Cell Reports</i> , 2022, 39, 110913.	6.4	7
4	Multi-omics profiling identifies a deregulated FUS-MAP1B axis in ALS/FTD-associated UBQLN2 mutants. <i>Life Science Alliance</i> , 2022, 5, e202101327.	2.8	6
5	Chronic T cell proliferation in brains after stroke could interfere with the efficacy of immunotherapies. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	26
6	Low-degree trisomy 21 mosaicism promotes early-onset Alzheimer disease. <i>Neurobiology of Aging</i> , 2021, 103, 147.e1-147.e5.	3.1	4
7	The porphyrin TMPyP4 inhibits elongation during the noncanonical translation of the FTL/ALS-associated GGGGCC repeat in the C9orf72 gene. <i>Journal of Biological Chemistry</i> , 2021, 297, 101120.	3.4	17
8	Poly-glycine-alanine exacerbates C9orf72 repeat expansion-mediated DNA damage via sequestration of phosphorylated ATM and loss of nuclear hnRNP3. <i>Acta Neuropathologica</i> , 2020, 139, 99-118.	7.7	49
9	Active poly-GA vaccination prevents microglia activation and motor deficits in a C9orf72 mouse model. <i>EMBO Molecular Medicine</i> , 2020, 12, e10919.	6.9	39
10	Nuclear Import Receptors Directly Bind to Arginine-Rich Dipeptide Repeat Proteins and Suppress Their Pathological Interactions. <i>Cell Reports</i> , 2020, 33, 108538.	6.4	69
11	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.	7.7	44
12	Cell-to-cell transmission of C9orf72 poly(Gly-Ala) triggers key features of ALS / FTD. <i>EMBO Journal</i> , 2020, 39, e102811.	7.8	51
13	Synaptic dysfunction induced by glycine-alanine dipeptides in C9orf72 ALS / FTD is rescued by SV2 replenishment. <i>EMBO Molecular Medicine</i> , 2020, 12, e10722.	6.9	38
14	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.	4.8	48
15	Loss of TMEM106B potentiates lysosomal and FTL-like pathology in progranulin-deficient mice. <i>EMBO Reports</i> , 2020, 21, e50241.	4.5	37
16	FDG-PET underscores the key role of the thalamus in frontotemporal lobar degeneration caused by C9ORF72 mutations. <i>Translational Psychiatry</i> , 2019, 9, 54.	4.8	28
17	Genome-wide analyses as part of the international FTL/ALS whole-genome sequencing consortium reveals novel disease risk factors and increases support for immune dysfunction in FTL. <i>Acta Neuropathologica</i> , 2019, 137, 879-899.	7.7	90
18	Loss of TREM2 function increases amyloid seeding but reduces plaque-associated ApoE. <i>Nature Neuroscience</i> , 2019, 22, 191-204.	14.8	358

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19	RNA-Dependent Intergenerational Inheritance of Enhanced Synaptic Plasticity after Environmental Enrichment. <i>Cell Reports</i> , 2018, 23, 546-554.	6.4	113
20	RNA versus protein toxicity in C9orf72 ALS/FTLD. <i>Acta Neuropathologica</i> , 2018, 135, 475-479.	7.7	8
21	In Situ Structure of Neuronal C9orf72 Poly-GA Aggregates Reveals Proteasome Recruitment. <i>Cell</i> , 2018, 172, 696-705.e12.	28.9	311
22	Targeting RNA Gâ€quadruplexes as new treatment strategy for C9orf72 ALS / FTD. <i>EMBO Molecular Medicine</i> , 2018, 10, 4-6.	6.9	10
23	A novel CHCHD10 mutation implicates a Mia40â€dependent mitochondrial import deficit in ALS. <i>EMBO Molecular Medicine</i> , 2018, 10, .	6.9	43
24	Novel antibodies reveal presynaptic localization of C9orf72 protein and reduced protein levels in C9orf72 mutation carriers. <i>Acta Neuropathologica Communications</i> , 2018, 6, 72.	5.2	87
25	Atrophy in the Thalamus But Not Cerebellum Is Specific for C9orf72 FTD and ALS Patients â€ An Atlas-Based Volumetric MRI Study. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 45.	3.4	40
26	Proteomics and <i>C9orf72</i> neuropathology identify ribosomes as poly-GR/PR interactors driving toxicity. <i>Life Science Alliance</i> , 2018, 1, e201800070.	2.8	88
27	Cytoplasmic poly-GA aggregates impair nuclear import of TDP-43 in <i>C9orf72</i> ALS/FTLD. <i>Human Molecular Genetics</i> , 2017, 26, ddw432.	2.9	82
28	Glycine-alanine dipeptide repeat protein contributes to toxicity in a zebrafish model of C9orf72 associated neurodegeneration. <i>Molecular Neurodegeneration</i> , 2017, 12, 6.	10.8	57
29	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.	7.7	99
30	Polyâ€scp>GP</scp> in cerebrospinal fluid links <i>C9orf72</i>â€associated dipeptide repeat expression to the asymptomatic phase of <sc>ALS</sc></sc>FTD</sc>. <i>EMBO Molecular Medicine</i> , 2017, 9, 859-868.	6.9	90
31	Antibodies inhibit transmission and aggregation of <i>C9orf72</i> polyâ€•sc>GA</sc> dipeptide repeat proteins. <i>EMBO Molecular Medicine</i> , 2017, 9, 687-702.	6.9	70
32	[S5â€01â€03]: C9ORF72 TRANSLATION AND DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P1444.	0.8	0
33	TDPâ€43 loss of function inhibits endosomal trafficking and alters trophic signaling in neurons. <i>EMBO Journal</i> , 2016, 35, 2350-2370.	7.8	76
34	Reduced hn <sc>RNPA</sc> 3 increases <i>C9orf72</i> repeat <sc>RNA</sc> levels and dipeptideâ€repeat protein deposition. <i>EMBO Reports</i> , 2016, 17, 1314-1325.	4.5	39
35	Gain of Toxicity from ALS/FTD-Linked Repeat Expansions in C9ORF72 Is Alleviated by Antisense Oligonucleotides Targeting GGGCCC-Containing RNAs. <i>Neuron</i> , 2016, 90, 535-550.	8.1	437
36	C9ORF72 poly(GA) aggregates sequester and impair HR23 and nucleocytoplasmic transport proteins. <i>Nature Neuroscience</i> , 2016, 19, 668-677.	14.8	268

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37	Monomethylated and unmethylated FUS exhibit increased binding to Transportin and distinguish FTLD-FUS from ALS-FUS. <i>Acta Neuropathologica</i> , 2016, 131, 587-604.	7.7	76
38	An amyloid-like cascade hypothesis for C9orf72 ALS/FTD. <i>Current Opinion in Neurobiology</i> , 2016, 36, 99-106.	4.2	59
39	Proteolytic Processing of Neuregulin 1 Type III by Three Intramembrane-cleaving Proteases. <i>Journal of Biological Chemistry</i> , 2016, 291, 318-333.	3.4	42
40	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.	7.9	201
41	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.	7.7	157
42	C9ORF72 repeat expansions in mice cause TDP-43 pathology, neuronal loss, and behavioral deficits. <i>Science</i> , 2015, 348, 1151-1154.	12.6	332
43	Editorial. <i>Journal of Neural Transmission</i> , 2015, 122, 933-936.	2.8	0
44	Novel clinical associations with specific C9ORF72 transcripts in patients with repeat expansions in C9ORF72. <i>Acta Neuropathologica</i> , 2015, 130, 863-876.	7.7	104
45	Cerebellar c9RAN proteins associate with clinical and neuropathological characteristics of C9ORF72 repeat expansion carriers. <i>Acta Neuropathologica</i> , 2015, 130, 559-573.	7.7	89
46	Quantitative analysis and clinico-pathological correlations of different dipeptide repeat protein pathologies in C9ORF72 mutation carriers. <i>Acta Neuropathologica</i> , 2015, 130, 845-861.	7.7	204
47	Three novel presenilin 1 mutations marking the wide spectrum of age at onset and clinical patterns in familial Alzheimer's disease. <i>Journal of Neural Transmission</i> , 2015, 122, 1715-1719.	2.8	8
48	C9orf72 FTLD/ALS-associated Gly-Ala dipeptide repeat proteins cause neuronal toxicity and Unc119 sequestration. <i>Acta Neuropathologica</i> , 2014, 128, 485-503.	7.7	300
49	The ER under rapid fire. <i>EMBO Journal</i> , 2014, 33, 1195-7.	7.8	4
50	Sequestration of multiple RNA recognition motif-containing proteins by C9orf72 repeat expansions. <i>Brain</i> , 2014, 137, 2040-2051.	7.6	253
51	MicroRNA 125b induces tau hyperphosphorylation and cognitive deficits in Alzheimer's disease. <i>EMBO Journal</i> , 2014, 33, 1667-1680.	7.8	257
52	Early dipeptide repeat pathology in a frontotemporal dementia kindred with C9ORF72 mutation and intellectual disability. <i>Acta Neuropathologica</i> , 2014, 127, 451-458.	7.7	67
53	Good guy or bad guy: the opposing roles of microRNA 125b in cancer. <i>Cell Communication and Signaling</i> , 2014, 12, 30.	6.5	144
54	Promoter DNA methylation regulates progranulin expression and is altered in FTLD. <i>Acta Neuropathologica Communications</i> , 2013, 1, 16.	5.2	43

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55	Bidirectional transcripts of the expanded C9orf72 hexanucleotide repeat are translated into aggregating dipeptide repeat proteins. <i>Acta Neuropathologica</i> , 2013, 126, 881-893.	7.7	427
56	FUS-mediated alternative splicing in the nervous system: consequences for ALS and FTL. <i>Journal of Molecular Medicine</i> , 2013, 91, 1343-1354.	3.9	39
57	Staufen2 Regulates Neuronal Target RNAs. <i>Cell Reports</i> , 2013, 5, 1511-1518.	6.4	78
58	The <i>C9orf72</i> GGGGCC Repeat Is Translated into Aggregating Dipeptide-Repeat Proteins in FTL/ALS. <i>Science</i> , 2013, 339, 1335-1338.	12.6	1,095
59	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.	7.7	302
60	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.	7.1	126
61	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.	3.6	104
62	Dipeptide repeat protein pathology in C9ORF72 mutation cases: clinico-pathological correlations. <i>Acta Neuropathologica</i> , 2013, 126, 859-879.	7.7	298
63	The FTL risk factor TMEM106B and MAP6 control dendritic trafficking of lysosomes. <i>EMBO Journal</i> , 2013, 33, n/a-n/a.	7.8	122
64	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.	7.1	277
65	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.	3.4	126
66	Loss of fused in sarcoma (FUS) promotes pathological Tau splicing. <i>EMBO Reports</i> , 2012, 13, 759-764.	4.5	73
67	miR-132, an experience-dependent microRNA, is essential for visual cortex plasticity. <i>Nature Neuroscience</i> , 2011, 14, 1240-1242.	14.8	167
68	microRNA-34c is a novel target to treat dementias. <i>EMBO Journal</i> , 2011, 30, 4299-4308.	7.8	302
69	ALS-associated fused in sarcoma (FUS) mutations disrupt Transportin-mediated nuclear import. <i>EMBO Journal</i> , 2010, 29, 2841-2857.	7.8	717
70	Distinct Roles of NR2A and NR2B Cytoplasmic Tails in Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2010, 30, 2676-2685.	3.6	184
71	Regulation of Synaptic Structure and Function by FMRP-Associated MicroRNAs miR-125b and miR-132. <i>Neuron</i> , 2010, 65, 373-384.	8.1	657
72	Regulation of Synaptic Structure and Function by FMRP-Associated MicroRNAs miR-125b and miR-132. <i>Neuron</i> , 2010, 68, 161.	8.1	4

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73	Identification and Characterization of Neuronal Mitogen-activated Protein Kinase Substrates Using a Specific Phosphomotif Antibody. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 681-695.	3.8	35
74	Role of Septin Cytoskeleton in Spine Morphogenesis and Dendrite Development in Neurons. <i>Current Biology</i> , 2007, 17, 1752-1758.	3.9	255
75	Co-expression of Nicastrin and Presenilin Rescues a Loss of Function Mutant of APH-1. <i>Journal of Biological Chemistry</i> , 2004, 279, 37311-37315.	3.4	25
76	Requirement of PEN-2 for Stabilization of the Presenilin N-/C-terminal Fragment Heterodimer within the $\hat{\Gamma}^3$ -Secretase Complex. <i>Journal of Biological Chemistry</i> , 2004, 279, 23255-23261.	3.4	107
77	Identification of Distinct $\hat{\Gamma}^3$ -Secretase Complexes with Different APH-1 Variants. <i>Journal of Biological Chemistry</i> , 2004, 279, 41340-41345.	3.4	149
78	Immature nicastrin stabilizes APH $\hat{\Gamma}^1$ independent of PEN $\hat{\Gamma}^2$ and presenilin: identification of nicastrin mutants that selectively interact with APH $\hat{\Gamma}^1$. <i>Journal of Neurochemistry</i> , 2004, 89, 1520-1527.	3.9	60
79	The presenilin C-terminus is required for ER-retention, nicastrin-binding and $\hat{\Gamma}^3$ -secretase activity. <i>EMBO Journal</i> , 2004, 23, 4738-4748.	7.8	91
80	P4-192 Structure-function analysis of the gamma-secretase complex subunit PEN-2. <i>Neurobiology of Aging</i> , 2004, 25, S530.	3.1	0
81	O4-04-06 $\hat{\Gamma}^2$ -Amyloid precursor protein intracellular domain (AICD) strongly enhances resting free cytosolic calcium levels. <i>Neurobiology of Aging</i> , 2004, 25, S81.	3.1	0
82	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.	4.5	112
83	Reconstitution of $\hat{\Gamma}^3$ -secretase activity. <i>Nature Cell Biology</i> , 2003, 5, 486-488.	10.3	850
84	$\hat{\Gamma}^3$ -Secretase Activity Is Associated with a Conformational Change of Nicastrin. <i>Journal of Biological Chemistry</i> , 2003, 278, 16474-16477.	3.4	89
85	Nicastrin Interacts with $\hat{\Gamma}^3$ -Secretase Complex Components via the N-terminal Part of Its Transmembrane Domain. <i>Journal of Biological Chemistry</i> , 2003, 278, 52519-52523.	3.4	54
86	Presenilin-dependent Intramembrane Proteolysis of CD44 Leads to the Liberation of Its Intracellular Domain and the Secretion of an A $\hat{\Gamma}^2$ -like Peptide. <i>Journal of Biological Chemistry</i> , 2002, 277, 44754-44759.	3.4	253
87	Insulin-degrading Enzyme Rapidly Removes the $\hat{\Gamma}^2$ -Amyloid Precursor Protein Intracellular Domain (AICD). <i>Journal of Biological Chemistry</i> , 2002, 277, 13389-13393.	3.4	185
88	Presenilin-1 mutations of leucine 166 equally affect the generation of the Notch and APP intracellular domains independent of their effect on A $\hat{\Gamma}^2$ production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8025-8030.	7.1	265
89	Presenilin and nicastrin regulate each other and determine amyloid $\hat{\Gamma}$ -peptide production via complex formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8666-8671.	7.1	229
90	Presenilin-1 affects trafficking and processing of $\hat{\Gamma}^2$ APP and is targeted in a complex with nicastrin to the plasma membrane. <i>Journal of Cell Biology</i> , 2002, 158, 551-561.	5.2	179

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91	PEN-2 Is an Integral Component of the β -Secretase Complex Required for Coordinated Expression of Presenilin and Nicastrin. <i>Journal of Biological Chemistry</i> , 2002, 277, 39062-39065.	3.4	244
92	Strategies to Generate Molecular and Cellular Tumor Vaccines for Low Grade Non-Hodgkin's Lymphoma. <i>Arzneimittelforschung</i> , 1999, 49, 171-171.	0.4	0