Kurt J De Vos

List of Publications by Year
in descending order

45 papers	8,746 citations	117453 34 h-index	243296 44 g-index
49 all docs	49 docs citations	49 times ranked	11403 citing authors

#	Article	IF	Citations
1	Mutations in FUS, an RNA Processing Protein, Cause Familial Amyotrophic Lateral Sclerosis Type 6. Science, 2009, 323, 1208-1211.	6.0	2,295
2	Role of Axonal Transport in Neurodegenerative Diseases. Annual Review of Neuroscience, 2008, 31, 151-173.	5.0	638
3	Direct evidence for tumor necrosis factor-induced mitochondrial reactive oxygen intermediates and their involvement in cytotoxicity.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 8115-8119.	3.3	566
4	ERâ€“mitochondria associations are regulated by the VAPBâ€“PTPIP51 interaction and are disrupted by ALS/FTD-associated TDP-43. Nature Communications, 2014, 5, 3996.	5.8	463
5	VAPB interacts with the mitochondrial protein PTPIP51 to regulate calcium homeostasis. Human Molecular Genetics, 2012, 21, 1299-1311.	1.4	423
6	Familial amyotrophic lateral sclerosis-linked SOD1 mutants perturb fast axonal transport to reduce axonal mitochondria content. Human Molecular Genetics, 2007, 16, 2720-2728.	1.4	365
7	The role of mitochondria in amyotrophic lateral sclerosis. Neuroscience Letters, 2019, 710, 132933.	1.0	356
8	The C9orf72 protein interacts with Rab1a and the <scp>ULK</scp>1 complex to regulate initiation of autophagy. EMBO Journal, 2016, 35, 1656-1676.	3.5	327
9	Mitochondrial Function and Actin Regulate Dynamin-Related Protein 1-Dependent Mitochondrial Fission. Current Biology, 2005, 15, 678-683.	1.8	320
10	Atractyloside-induced release of cathepsin B, a protease with caspase-processing activity. FEBS Letters, 1998, 438, 150-158.	1.3	275
11	Increasing microtubule acetylation rescues axonal transport and locomotor deficits caused by LRRK2 Roc-COR domain mutations. Nature Communications, 2014, 5, 5245.	5.8	229
12	<scp>ALS</scp> / <scp>FTD</scp> â€associated <scp>FUS</scp> activates <scp>GSK</scp> â€3Î² to disrupt the <scp>VAPB</scp> â€“ <scp>PTPIP</scp> 51 interaction and <scp>ER</scp> â€“mitochondria associations. EMBO Reports, 2016, 17, 1326-1342.	2.0	201
13	RPTP-Î± acts as a transducer of mechanical force on Î±v/Î²3-integrinâ€“cytoskeleton linkages. Journal of Cell Biology, 2003, 161, 143-153.	2.3	194
14	Neurobiology of axonal transport defects in motor neuron diseases: Opportunities for translational research?. Neurobiology of Disease, 2017, 105, 283-299.	2.1	173
15	The 55-kDa Tumor Necrosis Factor Receptor Induces Clustering of Mitochondria through Its Membrane-proximal Region. Journal of Biological Chemistry, 1998, 273, 9673-9680.	1.6	150
16	C9orf72 expansion disrupts ATM-mediated chromosomal break repair. Nature Neuroscience, 2017, 20, 1225-1235.	7.1	138
17	Direct evidence for axonal transport defects in a novel mouse model of mutant spastinâ€induced hereditary spastic paraplegia (HSP) and human HSP patients. Journal of Neurochemistry, 2009, 110, 34-44.	2.1	135
18	Therapeutic activity of C5a receptor antagonists in a rat model of neurodegeneration. FASEB Journal, 2006, 20, 1407-1417.	0.2	129

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19	Redox regulation of TNF signaling. BioFactors, 1999, 10, 145-156.	2.6	126
20	Amyotrophic lateral sclerosis-associated mutant VAPBP56S perturbs calcium homeostasis to disrupt axonal transport of mitochondria. Human Molecular Genetics, 2012, 21, 1979-1988.	1.4	112
21	SRSF1-dependent nuclear export inhibition of C9ORF72 repeat transcripts prevents neurodegeneration and associated motor deficits. Nature Communications, 2017, 8, 16063.	5.8	106
22	Tumor Necrosis Factor Induces Hyperphosphorylation of Kinesin Light Chain and Inhibits Kinesin-Mediated Transport of Mitochondria. Journal of Cell Biology, 2000, 149, 1207-1214.	2.3	103
23	Astrocyte adenosine deaminase loss increases motor neuron toxicity in amyotrophic lateral sclerosis. Brain, 2019, 142, 586-605.	3.7	84
24	Amyotrophic lateral sclerosis-associated mutant SOD1 inhibits anterograde axonal transport of mitochondria by reducing Miro1 levels. Human Molecular Genetics, 2017, 26, 4668-4679.	1.4	83
25	Visualization and Quantification of Mitochondrial Dynamics in Living Animal Cells. Methods in Cell Biology, 2007, 80, 627-682.	0.5	79
26	Expression of Phosphatidylinositol (4,5) Bisphosphateâ€“specific Pleckstrin Homology Domains Alters Direction But Not the Level of Axonal Transport of Mitochondria. Molecular Biology of the Cell, 2003, 14, 3636-3649.	0.9	69
27	Amyotrophic lateral sclerosis mutant vesicle-associated membrane protein-associated protein-B transgenic mice develop TAR-DNA-binding protein-43 pathology. Neuroscience, 2010, 167, 774-785.	1.1	69
28	Protein Homeostasis in Amyotrophic Lateral Sclerosis: Therapeutic Opportunities?. Frontiers in Molecular Neuroscience, 2017, 10, 123.	1.4	62
29	Reduced number of axonal mitochondria and tau hypophosphorylation in mouse P301L tau knockin neurons. Neurobiology of Disease, 2016, 85, 1-10.	2.1	57
30	Phosphorylation of kinesin light chain 1 at serine 460 modulates binding and trafficking of calsyntenin-1. Journal of Cell Science, 2011, 124, 1032-1042.	1.2	55
31	Axonal Transport Defects in a Mitofusin 2 Loss of Function Model of Charcot-Marie-Tooth Disease in Zebrafish. PLoS ONE, 2013, 8, e67276.	1.1	55
32	Neurofilament subunit (NFL) head domain phosphorylation regulates axonal transport of neurofilaments. European Journal of Cell Biology, 2009, 88, 193-202.	1.6	46
33	C9orf72 plays a central role in Rab GTPase-dependent regulation of autophagy. Small GTPases, 2018, 9, 399-408.	0.7	45
34	Lemur tyrosine kinase-2 signalling regulates kinesin-1 light chain-2 phosphorylation and binding of Smad2 cargo. Oncogene, 2012, 31, 2773-2782.	2.6	44
35	A Caspase-activated Factor (CAF) Induces Mitochondrial Membrane Depolarization and Cytochrome c Release by a Nonproteolytic Mechanism. Journal of Experimental Medicine, 1998, 188, 2193-2198.	4.2	34
36	Riluzole protects against glutamate-induced slowing of neurofilament axonal transport. Neuroscience Letters, 2009, 454, 161-164.	1.0	34

#	Article	IF	Citations
37	Deficiency of the Copper Chaperone for Superoxide Dismutase Increases Amyloid-Î² Production. Journal of Alzheimer's Disease, 2010, 21, 1101-1105.	1.2	23
38	C9ORF72 hexanucleotide repeat exerts toxicity in a stable, inducible motor neuronal cell model, which is rescued by partial depletion of Pten. Human Molecular Genetics, 2017, 26, 1133-1145.	1.4	23
39	A comparison of in vitro properties of resting SOD1 transgenic microglia reveals evidence of reduced neuroprotective function. BMC Neuroscience, 2011, 12, 91.	0.8	19
40	Induction of Unresponsiveness to Tumor Necrosis Factor (TNF) after Autocrine TNF Expression Requires TNF Membrane Retention. Journal of Biological Chemistry, 1998, 273, 3271-3277.	1.6	12
41	Significance of Host Cell Kinesin in the Development of Chlamydia psittaci. Infection and Immunity, 1999, 67, 5441-5446.	1.0	12
42	C9ORF72-derived poly-GA DPRs undergo endocytic uptake in iAstrocytes and spread to motor neurons. Life Science Alliance, 2022, 5, e202101276.	1.3	6
43	Cellâ€Free Assays for Mitochondriaâ€“Cytoskeleton Interactions. Methods in Cell Biology, 2007, 80, 683-706.	0.5	2
44	A14â€…Fast axonal transport of mitochondria is altered in Huntington's disease. Journal of Neurology, Neurosurgery and Psychiatry, 2010, 81, A5.1-A5.	0.9	1
45	Role of Reactive Oxygen Species in Tumor Necrosis Factor Toxicity. , 2000, , 245-264.		0