Wilfried Rossoll

List of Publications by Year
in descending order

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40 papers	4,862 citations	159585 30 h-index	302126 39 g-index
41 all docs	41 docs citations	41 times ranked	5372 citing authors

#	Article	IF	Citations
1	Smn, the spinal muscular atrophyâ€“determining gene product, modulates axon growth and localization of Î²-actin mRNA in growth cones of motoneurons. Journal of Cell Biology, 2003, 163, 801-812.	5.2	588
2	Mutations in the profilin 1 gene cause familial amyotrophic lateral sclerosis. Nature, 2012, 488, 499-503.	27.8	522
3	Plastin 3 Is a Protective Modifier of Autosomal Recessive Spinal Muscular Atrophy. Science, 2008, 320, 524-527.	12.6	434
4	TDP-43 pathology disrupts nuclear pore complexes and nucleocytoplasmic transport in ALS/FTD. Nature Neuroscience, 2018, 21, 228-239.	14.8	404
5	Specific interaction of Smn, the spinal muscular atrophy determining gene product, with hnRNP-R and gry-rbp/hnRNP-Q: a role for Smn in RNA processing in motor axons?. Human Molecular Genetics, 2002, 11, 93-105.	2.9	250
6	The Survival of Motor Neuron (SMN) Protein Interacts with the mRNA-Binding Protein HuD and Regulates Localization of Poly(A) mRNA in Primary Motor Neuron Axons. Journal of Neuroscience, 2011, 31, 3914-3925.	3.6	197
7	The ALS disease protein TDP-43 is actively transported in motor neuron axons and regulates axon outgrowth. Human Molecular Genetics, 2012, 21, 3703-3718.	2.9	195
8	Multiprotein Complexes of the Survival of Motor Neuron Protein SMN with Gemins Traffic to Neuronal Processes and Growth Cones of Motor Neurons. Journal of Neuroscience, 2006, 26, 8622-8632.	3.6	178
9	Spinal muscular atrophy: The role of SMN in axonal mRNA regulation. Brain Research, 2012, 1462, 81-92.	2.2	177
10	Reduced survival motor neuron (Smn) gene dose in mice leads to motor neuron degeneration: an animal model for spinal muscular atrophy type III. Human Molecular Genetics, 2000, 9, 341-346.	2.9	160
11	Deficiency of the Survival of Motor Neuron Protein Impairs mRNA Localization and Local Translation in the Growth Cone of Motor Neurons. Journal of Neuroscience, 2016, 36, 3811-3820.	3.6	138
12	Bag1 is essential for differentiation and survival of hematopoietic and neuronal cells. Nature Neuroscience, 2005, 8, 1169-1178.	14.8	115
13	Missense mutation in the tubulin-specific chaperone E (Tbce) gene in the mouse mutant progressive motor neuronopathy, a model of human motoneuron disease. Journal of Cell Biology, 2002, 159, 563-569.	5.2	114
14	The heterogeneous nuclear ribonucleoprotein-R is necessary for axonal Î²-actin mRNA translocation in spinal motor neurons. Human Molecular Genetics, 2010, 19, 1951-1966.	2.9	101
15	Coaggregation of RNA-Binding Proteins in a Model of TDP-43 Proteinopathy with Selective RGG Motif Methylation and a Role for RRM1 Ubiquitination. PLoS ONE, 2012, 7, e38658.	2.5	98
16	Dynamics of survival of motor neuron (SMN) protein interaction with the mRNAâ€binding protein IMP1 facilitates its trafficking into motor neuron axons. Developmental Neurobiology, 2014, 74, 319-332.	3.0	89
17	Dysregulation of mRNA Localization and Translation in Genetic Disease. Journal of Neuroscience, 2016, 36, 11418-11426.	3.6	89
18	Post-transcriptional Inhibition of Hsc70-4/HSPA8 Expression Leads to Synaptic Vesicle Cycling Defects in Multiple Models of ALS. Cell Reports, 2017, 21, 110-125.	6.4	83

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19	Characterization of Ighmbp2 in motor neurons and implications for the pathomechanism in a mouse model of human spinal muscular atrophy with respiratory distress type 1 (SMARD1). Human Molecular Genetics, 2004, 13, 2031-2042.	2.9	82
20	Trehalose upregulates progranulin expression in human and mouse models of GRN haploinsufficiency: a novel therapeutic lead to treat frontotemporal dementia. Molecular Neurodegeneration, 2016, 11, 46.	10.8	82
21	Gene targeting of Gemin2 in mice reveals a correlation between defects in the biogenesis of U snRNPs and motoneuron cell death. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10126-10131.	7.1	73
22	The COPI vesicle complex binds and moves with survival motor neuron within axons. Human Molecular Genetics, 2011, 20, 1701-1711.	2.9	71
23	High-efficiency transfection of cultured primary motor neurons to study protein localization, trafficking, and function. Molecular Neurodegeneration, 2010, 5, 17.	10.8	67
24	A role for the survival of motor neuron protein in mRNP assembly and transport. Current Opinion in Neurobiology, 2016, 39, 53-61.	4.2	67
25	The Survival of Motor Neuron Protein Acts as a Molecular Chaperone for mRNP Assembly. Cell Reports, 2017, 18, 1660-1673.	6.4	58
26	Spinal Muscular Atrophy and a Model for Survival of Motor Neuron Protein Function in Axonal Ribonucleoprotein Complexes. Results and Problems in Cell Differentiation, 2009, 48, 87-107.	0.7	56
27	mRNP assembly, axonal transport, and local translation in neurodegenerative diseases. Brain Research, 2018, 1693, 75-91.	2.2	56
28	Chimeric Peptide Species Contribute to Divergent Dipeptide Repeat Pathology in c9ALS/FTD and SCA36. Neuron, 2020, 107, 292-305.e6.	8.1	51
29	A human pluripotent stem cell model of catecholaminergic polymorphic ventricular tachycardia recapitulates patient-specific drug responses. DMM Disease Models and Mechanisms, 2016, 9, 927-39.	2.4	45
30	Traffic jam at the nuclear pore: All roads lead to nucleocytoplasmic transport defects in ALS/FTD. Neurobiology of Disease, 2020, 140, 104835.	4.4	45
31	Hexanucleotide Repeat Expansions in c9FTD/ALS and SCA36 Confer Selective Patterns of Neurodegeneration InÂVivo. Cell Reports, 2020, 31, 107616.	6.4	37
32	Sox10 regulates ciliary neurotrophic factor gene expression in Schwann cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7871-7876.	7.1	29
33	Spatially and temporally regulating translation via <scp>mRNA</scp>â€binding proteins in cellular and neuronal function. FEBS Letters, 2017, 591, 1508-1525.	2.8	27
34	Crosstalk of Local Translation and Mitochondria: Powering Plasticity in Axons and Dendrites. Neuron, 2019, 101, 204-206.	8.1	23
35	Proximity proteomics of C9orf72 dipeptide repeat proteins identifies molecular chaperones as modifiers of poly-GA aggregation. Acta Neuropathologica Communications, 2022, 10, 22.	5.2	22
36	PABPN1 suppresses TDP-43 toxicity in ALS disease models. Human Molecular Genetics, 2015, 24, 5154-5173.	2.9	19

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37	RNP Assembly Defects in Spinal Muscular Atrophy. Advances in Neurobiology, 2018, 20, 143-171.	1.8	18
38	The human centromeric survival motor neuron gene (SMN2) rescues embryonic lethality in Smn / mice and results in a mouse with spinal muscular atrophy. Human Molecular Genetics, 2007, 16, 2648-2648.	2.9	1
39	Commentary: Current Status of Gene Therapy for Spinal Muscular Atrophy. Frontiers in Cellular Neuroscience, 2022, 16, .	3.7	1
40	[O2â€“18â€“01]: TDPâ€43 PATHOLOGY DISRUPTS NUCLEAR PORE COMPLEXES AND NUCLEOCYTOPLASMIC TRANSPORT IN ALS/FTD. Alzheimer's and Dementia, 2017, 13, P602.	0.8	0