Sibylle Jablonka

List of Publications by Year in descending order

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65 papers	4,057 citations	136950 32 h-index	118850 62 g-index

68 all docs	68 docs citations	68 times ranked	5102 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	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
3	Stiff person syndrome-associated autoantibodies to amphiphysin mediate reduced GABAergic inhibition. Brain, 2010, 133, 3166-3180.	7.6	172
4	Hot-spot KIF5A mutations cause familial ALS. Brain, 2018, 141, 688-697.	7.6	167
5	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
6	Defective Ca2+ channel clustering in axon terminals disturbs excitability in motoneurons in spinal muscular atrophy. Journal of Cell Biology, 2007, 179, 139-149.	5.2	154
7	A transgene carrying an A2G missense mutation in the SMN gene modulates phenotypic severity in mice with severe (type I) spinal muscular atrophy. Journal of Cell Biology, 2003, 160, 41-52.	5.2	140
8	C9ORF72 interaction with cofilin modulates actin dynamics in motor neurons. Nature Neuroscience, 2016, 19, 1610-1618.	14.8	131
9	The spinal muscular atrophy disease protein SMN is linked to the rho-kinase pathway via profilin. Human Molecular Genetics, 2011, 20, 4865-4878.	2.9	120
10	Bag1 is essential for differentiation and survival of hematopoietic and neuronal cells. Nature Neuroscience, 2005, 8, 1169-1178.	14.8	115
11	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
12	Adenosine receptor A _{2A} -R contributes to motoneuron survival by transactivating the tyrosine kinase receptor TrkB. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17210-17215.	7.1	108
13	A two-stage genome-wide association study of sporadic amyotrophic lateral sclerosis. Human Molecular Genetics, 2009, 18, 1524-1532.	2.9	106
14	Isolation and enrichment of embryonic mouse motoneurons from the lumbar spinal cord of individual mouse embryos. Nature Protocols, 2010, 5, 31-38.	12.0	102
15	Co-regulation of survival of motor neuron (SMN) protein and its interactor SIP1 during development and in spinal muscular atrophy. Human Molecular Genetics, 2001, 10, 497-505.	2.9	94
16	IGHMBP2 is a ribosome-associated helicase inactive in the neuromuscular disorder distal SMA type 1 (DSMA1). Human Molecular Genetics, 2009, 18, 1288-1300.	2.9	88
17	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
18	Axonal defects in mouse models of motoneuron disease. Journal of Neurobiology, 2004, 58, 272-286.	3.6	82

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19	Comprehensive analysis of the mutation spectrum in 301 German ALS families. Journal of Neurology, Neurosurgery and Psychiatry, 2018, 89, 817-827.	1.9	80
20	Distinct and overlapping alterations in motor and sensory neurons in a mouse model of spinal muscular atrophy. Human Molecular Genetics, 2006, 15, 511-518.	2.9	77
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	Neuromuscular defects and breathing disorders in a new mouse model of spinal muscular atrophy. Neurobiology of Disease, 2010, 38, 125-135.	4.4	71
23	Plekhg5-regulated autophagy of synaptic vesicles reveals a pathogenic mechanism in motoneuron disease. Nature Communications, 2017, 8, 678.	12.8	59
24	The role of SMN in spinal muscular atrophy. Journal of Neurology, 2000, 247, I37-I42.	3.6	58
25	Ciliary neurotrophic factor-induced sprouting preserves motor function in a mouse model of mild spinal muscular atrophy. Human Molecular Genetics, 2010, 19, 973-986.	2.9	57
26	Loss of Tdp-43 disrupts the axonal transcriptome of motoneurons accompanied by impaired axonal translation and mitochondria function. Acta Neuropathologica Communications, 2020, 8, 116.	5.2	55
27	Presynaptic Localization of Smn and hnRNP R in Axon Terminals of Embryonic and Postnatal Mouse Motoneurons. PLoS ONE, 2014, 9, e110846.	2.5	54
28	A New Gene Family (FAM9) of Low-Copy Repeats in Xp22.3 Expressed Exclusively in Testis: Implications for Recombinations in This Region. Genomics, 2002, 80, 259-267.	2.9	51
29	Clinical variability in distal spinal muscular atrophy type 1 (DSMA1): determination of steady-state IGHMBP2 protein levels in five patients with infantile and juvenile disease. Journal of Molecular Medicine, 2009, 87, 31-41.	3.9	43
30	Role of Nav1.9 in activity-dependent axon growth in motoneurons. Human Molecular Genetics, 2012, 21, 3655-3667.	2.9	42
31	An open source tool for automatic spatiotemporal assessment of calcium transients and local â€˜signal-close-to-noiseâ€™ activity in calcium imaging data. PLoS Computational Biology, 2018, 14, e1006054.	3.2	35
32	Oguchi disease: suggestion of linkage to markers on chromosome 2q.. Journal of Medical Genetics, 1995, 32, 396-398.	3.2	33
33	Large-scale pathways-based association study in amyotrophic lateral sclerosis. Brain, 2007, 130, 2292-2301.	7.6	32
34	Polyethylene glycol-coupled IGF1 delays motor function defects in a mouse model of spinal muscular atrophy with respiratory distress type 1. Brain, 2014, 137, 1374-1393.	7.6	30
35	Dysregulated IGFBP5 expression causes axon degeneration and motoneuron loss in diabetic neuropathy. Acta Neuropathologica, 2015, 130, 373-387.	7.7	27
36	Therapy development for spinal muscular atrophy: perspectives for muscular dystrophies and neurodegenerative disorders. Neurological Research and Practice, 2022, 4, 2.	2.0	27

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37	BDNF/trkB Induction of Calcium Transients through Cav2.2 Calcium Channels in Motoneurons Corresponds to F-actin Assembly and Growth Cone Formation on Î²2-Chain Laminin (221). Frontiers in Molecular Neuroscience, 2017, 10, 346.	2.9	25
38	Stiff person syndrome associated anti-amphiphysin antibodies reduce GABA associated [Ca2+]i rise in embryonic motoneurons. Neurobiology of Disease, 2009, 36, 191-199.	4.4	24
39	Therapeutic effects of PEGylated insulin-like growth factor I in the pmn mouse model of motoneuron disease. Experimental Neurology, 2011, 232, 261-269.	4.1	23
40	Developmental regulation of SMN expression: pathophysiological implications and perspectives for therapy development in spinal muscular atrophy. Gene Therapy, 2017, 24, 506-513.	4.5	23
41	Interaction of 7SK with the Smn complex modulates snRNP production. Nature Communications, 2021, 12, 1278.	12.8	23
42	Valproic acid blocks excitability in SMA type I mouse motor neurons. Neurobiology of Disease, 2009, 36, 477-487.	4.4	21
43	Isolation and characterization of neural stem cells from the neonatal rat cochlear nucleus. Cell and Tissue Research, 2011, 343, 499-508.	2.9	20
44	Lectin-based Isolation and Culture of Mouse Embryonic Motoneurons. Journal of Visualized Experiments, 2011, , .	0.3	17
45	R-Roscovitine Improves Motoneuron Function in Mouse Models for Spinal Muscular Atrophy. IScience, 2020, 23, 100826.	4.1	16
46	Fast motor axon loss in SMARD1 does not correspond to morphological and functional alterations of the NMJ. Neurobiology of Disease, 2013, 54, 169-182.	4.4	15
47	Cell-autonomous axon growth of young motoneurons is triggered by a voltage-gated sodium channel. Channels, 2013, 7, 51-56.	2.8	15
48	Disruption of a Structurally Important Extracellular Element in the Glycine Receptor Leads to Decreased Synaptic Integration and Signaling Resulting in Severe Startle Disease. Journal of Neuroscience, 2017, 37, 7948-7961.	3.6	15
49	Molecular and cellular basis of spinal muscular atrophy. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases, 2003, 4, 144-149.	1.2	14
50	Mechanisms for axon maintenance and plasticity in motoneurons: alterations in motoneuron disease. Journal of Anatomy, 2014, 224, 3-14.	1.5	14
51	Axonal and dendritic localization of mRNAs for glycogen-metabolizing enzymes in cultured rodent neurons. BMC Neuroscience, 2014, 15, 70.	1.9	14
52	Dynamic remodeling of ribosomes and endoplasmic reticulum in axon terminals of motoneurons. Journal of Cell Science, 2021, 134, .	2.0	14
53	Analysis of European case-control studies suggests that common inherited variation in mitochondrial DNA is not involved in susceptibility to amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2012, 13, 341-346.	2.1	11
54	Neurotrophic effects of taurine on spiral ganglion neurons in vitro. NeuroReport, 2014, 25, 1250-1254.	1.2	10

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55	Loss of full-length hnRNP R isoform impairs DNA damage response in motoneurons by inhibiting Yb1 recruitment to chromatin. Nucleic Acids Research, 2021, 49, 12284-12305.	14.5	10
56	Growth behavior of cochlear nucleus neuronal cells on semiconductor substrates. Journal of Biomedical Materials Research - Part A, 2011, 97A, 158-166.	4.0	9
57	Cochlear nucleus whole mount explants promote the differentiation of neuronal stem cells from the cochlear nucleus in co-culture experiments. Brain Research, 2015, 1616, 58-70.	2.2	8
58	Mutation of the TBCE gene causes disturbance of microtubules in the auditory nerve and cochlear outer hair cell degeneration accompanied by progressive hearing loss in the pmn/pmn mouse. Experimental Neurology, 2013, 250, 333-340.	4.1	7
59	Impaired Local Translation of Î²-actin mRNA in Ighmbp2-Deficient Motoneurons: Implications for Spinal Muscular Atrophy with respiratory Distress (SMARD1). Neuroscience, 2018, 386, 24-40.	2.3	7
60	Effects of the neurotrophic factors BDNF, NT-3, and FGF2 on dissociated neurons of the cochlear nucleus. NeuroReport, 2014, 25, 960-964.	1.2	6
61	Mosaic pattern of Cre recombinase expression in cochlear outer hair cells of the Brn3.1 Cre mouse. NeuroReport, 2015, 26, 309-313.	1.2	5
62	Differentiation defects in primary motoneurons from a SMARD1 mouse model that are insensitive to treatment with low dose PEGylated IGF1. Rare Diseases (Austin, Tex), 2014, 2, e29415.	1.8	2
63	Impaired dynamic interaction of axonal endoplasmic reticulum and ribosomes contributes to defective stimulusâ€“response in spinal muscular atrophy. Translational Neurodegeneration, 2022, 11, .	8.0	2
64	Reply: Adult-onset distal spinal muscular atrophy: a new phenotype associated with KIF5A mutations. Brain, 2019, 142, e67-e67.	7.6	1
65	Pegylated Insulin-Like Growth Factor 1 attenuates Hair Cell Loss and promotes Presynaptic Maintenance of Medial Olivocochlear Cholinergic Fibers in the Cochlea of the Progressive Motor Neuropathy Mouse. Frontiers in Neurology, 2022, 13, .	2.4	1