Michael Sendtner

List of Publications by Year in Descending Order

232 papers	27,591 citations	84 h-index	164 g-index
279 ext. papers	30,827 ext. citations	11 avg, IF	6.4 L-index

#	Paper	IF	Citations
232	Therapy development for spinal muscular atrophy: perspectives for muscular dystrophies and neurodegenerative disorders.. *Neurological Research and Practice*, **2022**, 4, 2	3.2	3
231	Insulin-like growth factor 5 associates with human A□plaques and promotes cognitive impairment.. *Acta Neuropathologica Communications*, **2022**, 10, 68	7.3	
230	Common and rare variant association analyses in amyotrophic lateral sclerosis identify 15 risk loci with distinct genetic architectures and neuron-specific biology. *Nature Genetics*, **2021**, 53, 1636-1648	36.3	19
229	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	20.1	0
228	Keeping the balance: The noncoding RNA 7SK as a master regulator for neuron development and function. *BioEssays*, **2021**, 43, e2100092	4.1	0
227	Pathogenic Huntingtin Repeat Expansions in Patients with Frontotemporal Dementia and Amyotrophic Lateral Sclerosis. *Neuron*, **2021**, 109, 448-460.e4	13.9	20
226	Interaction of 7SK with the Smn complex modulates snRNP production. *Nature Communications*, **2021**, 12, 1278	17.4	8
225	Association of Variants in the SPTLC1 Gene With Juvenile Amyotrophic Lateral Sclerosis. *JAMA Neurology*, **2021**, 78, 1236-1248	17.2	5
224	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). *Autophagy*, **2021**, 17, 1-382	10.2	440
223	Overexpression of an ALS-associated FUS mutation in disrupts NMJ morphology and leads to defective neuromuscular transmission. *Biology Open*, **2020**, 9,	2.2	7
222	Regulation of TrkB cell surface expression-a mechanism for modulation of neuronal responsiveness to brain-derived neurotrophic factor. *Cell and Tissue Research*, **2020**, 382, 5-14	4.2	12
221	The FTLD Risk Factor TMEM106B Regulates the Transport of Lysosomes at the Axon Initial Segment of Motoneurons. *Cell Reports*, **2020**, 30, 3506-3519.e6	10.6	19
220	Induction of BDNF Expression in Layer II/III and Layer V Neurons of the Motor Cortex Is Essential for Motor Learning. *Journal of Neuroscience*, **2020**, 40, 6289-6308	6.6	9
219	Absence of Plekhg5 Results in Myelin Infoldings Corresponding to an Impaired Schwann Cell Autophagy, and a Reduced T-Cell Infiltration Into Peripheral Nerves. *Frontiers in Cellular Neuroscience*, **2020**, 14, 185	6.1	1
218	Development of a Fully Implantable Stimulator for Deep Brain Stimulation in Mice. *Frontiers in Neuroscience*, **2020**, 14, 726	5.1	3
217	Loss of Tdp-43 disrupts the axonal transcriptome of motoneurons accompanied by impaired axonal translation and mitochondria function. *Acta Neuropathologica Communications*, **2020**, 8, 116	7.3	27
216	Heterozygous loss has opposing effects in early and late stages of ALS in mice. *Journal of Experimental Medicine*, **2019**, 216, 267-278	16.6	39

215	An essential role of the mouse synapse-associated protein Syap1 in circuits for spontaneous motor activity and rotarod balance. *Biology Open*, **2019**, 8,	2.2	5
214	Exome array analysis of rare and low frequency variants in amyotrophic lateral sclerosis. *Scientific Reports*, **2019**, 9, 5931	4.9	6
213	Shared polygenic risk and causal inferences in amyotrophic lateral sclerosis. *Annals of Neurology*, **2019**, 85, 470-481	9.4	72
212	Reply: Adult-onset distal spinal muscular atrophy: a new phenotype associated with KIF5A mutations. *Brain*, **2019**, 142, e67	11.2	0
211	Network topology dynamics of circulating biomarkers and cognitive performance in older Cytomegalovirus-seropositive or -seronegative men and women. *Immunity and Ageing*, **2019**, 16, 31	9.7	2
210	hnRNP R and its main interactor, the noncoding RNA 7SK, coregulate the axonal transcriptome of motoneurons. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E2859-E2868	11.5	20
209	Hot-spot KIF5A mutations cause familial ALS. *Brain*, **2018**, 141, 688-697	11.2	105
208	Comprehensive analysis of the mutation spectrum in 301 German ALS families. *Journal of Neurology, Neurosurgery and Psychiatry*, **2018**, 89, 817-827	5.5	43
207	Autophagy in the presynaptic compartment. *Current Opinion in Neurobiology*, **2018**, 51, 80-85	7.6	16
206	Opposing Effects of CREBBP Mutations Govern the Phenotype of Rubinstein-Taybi Syndrome and Adult SHH Medulloblastoma. *Developmental Cell*, **2018**, 44, 709-724.e6	10.2	25
205	The association between hypertensive arteriopathy and cerebral amyloid angiopathy in spontaneously hypertensive stroke-prone rats. *Brain Pathology*, **2018**, 28, 844-859	6	15
204	Ciliary neurotrophic factor (CNTF) protects retinal cone and rod photoreceptors by suppressing excessive formation of the visual pigments. *Journal of Biological Chemistry*, **2018**, 293, 15256-15268	5.4	16
203	Insulin-like growth factor 1 in diabetic neuropathy and amyotrophic lateral sclerosis. *Neurobiology of Disease*, **2017**, 97, 103-113	7.5	26
202	Differential roles of □ □ and □actin in axon growth and collateral branch formation in motoneurons. *Journal of Cell Biology*, **2017**, 216, 793-814	7.3	31
201	Developmental regulation of SMN expression: pathophysiological implications and perspectives for therapy development in spinal muscular atrophy. *Gene Therapy*, **2017**, 24, 506-513	4	17
200	Genetic correlation between amyotrophic lateral sclerosis and schizophrenia. *Nature Communications*, **2017**, 8, 14774	17.4	85
199	Plekhg5-regulated autophagy of synaptic vesicles reveals a pathogenic mechanism in motoneuron disease. *Nature Communications*, **2017**, 8, 678	17.4	39
198	Optimized Whole Transcriptome Profiling of Motor Axons. *Methods in Molecular Biology*, **2017**, 1654, 231-241	1.4	

197	ALS-Associated Endoplasmic Reticulum Proteins in Denervated Skeletal Muscle: Implications for Motor Neuron Disease Pathology. *Brain Pathology*, **2017**, 27, 781-794	6	14
196	Whole transcriptome profiling reveals the RNA content of motor axons. *Nucleic Acids Research*, **2016**, 44, e33	20.1	71
195	Genome-wide association analyses identify new risk variants and the genetic architecture of amyotrophic lateral sclerosis. *Nature Genetics*, **2016**, 48, 1043-8	36.3	328
194	NEK1 variants confer susceptibility to amyotrophic lateral sclerosis. *Nature Genetics*, **2016**, 48, 1037-42	36.3	149
193	Can physical exercise in old age improve memory and hippocampal function?. *Brain*, **2016**, 139, 662-73	11.2	168
192	Relationships of peripheral IGF-1, VEGF and BDNF levels to exercise-related changes in memory, hippocampal perfusion and volumes in older adults. *NeuroImage*, **2016**, 131, 142-54	7.9	153
191	Initial characterization of a Syap1 knock-out mouse and distribution of Syap1 in mouse brain and cultured motoneurons. *Histochemistry and Cell Biology*, **2016**, 146, 489-512	2.4	3
190	Neurofilament depletion improves microtubule dynamics via modulation of Stat3/stathmin signaling. *Acta Neuropathologica*, **2016**, 132, 93-110	14.3	13
189	C9ORF72 interaction with cofilin modulates actin dynamics in motor neurons. *Nature Neuroscience*, **2016**, 19, 1610-1618	25.5	87
188	Pathogenic inflammation in the CNS of mice carrying human PLP1 mutations. *Human Molecular Genetics*, **2016**, 25, 4686-4702	5.6	16
187	The CB□cannabinoid receptor signals striatal neuroprotection via a PI3K/Akt/mTORC1/BDNF pathway. *Cell Death and Differentiation*, **2015**, 22, 1618-29	12.7	87
186	Vascular signal transducer and activator of transcription-3 promotes angiogenesis and neuroplasticity long-term after stroke. *Circulation*, **2015**, 131, 1772-82	16.7	46
185	Dysregulated IGFBP5 expression causes axon degeneration and motoneuron loss in diabetic neuropathy. *Acta Neuropathologica*, **2015**, 130, 373-87	14.3	18
184	Thymocyte-derived BDNF influences T-cell maturation at the DN3/DN4 transition stage. *European Journal of Immunology*, **2015**, 45, 1326-38	6.1	13
183	Motoneuron disease. *Handbook of Experimental Pharmacology*, **2014**, 220, 411-41	3.2	8
182	Mutations in the Matrin 3 gene cause familial amyotrophic lateral sclerosis. *Nature Neuroscience*, **2014**, 17, 664-666	25.5	319
181	SMN deficiency alters Nrxn2 expression and splicing in zebrafish and mouse models of spinal muscular atrophy. *Human Molecular Genetics*, **2014**, 23, 1754-70	5.6	59
180	A genome-wide association meta-analysis identifies a novel locus at 17q11.2 associated with sporadic amyotrophic lateral sclerosis. *Human Molecular Genetics*, **2014**, 23, 2220-31	5.6	95

179	Subcellular transcriptome alterations in a cell culture model of spinal muscular atrophy point to widespread defects in axonal growth and presynaptic differentiation. *Rna*, **2014**, 20, 1789-802	5.8	67
178	Cooperation of tyrosine kinase receptor TrkB and epidermal growth factor receptor signaling enhances migration and dispersal of lung tumor cells. *PLoS ONE*, **2014**, 9, e100944	3.7	18
177	Presynaptic localization of Smn and hnRNP R in axon terminals of embryonic and postnatal mouse motoneurons. *PLoS ONE*, **2014**, 9, e110846	3.7	45
176	Deep proteomic evaluation of primary and cell line motoneuron disease models delineates major differences in neuronal characteristics. *Molecular and Cellular Proteomics*, **2014**, 13, 3410-20	7.6	40
175	Mechanisms for axon maintenance and plasticity in motoneurons: alterations in motoneuron disease. *Journal of Anatomy*, **2014**, 224, 3-14	2.9	13
174	EGF transactivation of Trk receptors regulates the migration of newborn cortical neurons. *Nature Neuroscience*, **2013**, 16, 407-15	25.5	59
173	Up-regulation of ciliary neurotrophic factor in astrocytes by aspirin: implications for remyelination in multiple sclerosis. *Journal of Biological Chemistry*, **2013**, 288, 18533-45	5.4	38
172	Frequency of the C9orf72 hexanucleotide repeat expansion in patients with amyotrophic lateral sclerosis and frontotemporal dementia: a cross-sectional study. *Lancet Neurology, The*, **2012**, 11, 323-30	24.1	830
171	Clinical characteristics of patients with familial amyotrophic lateral sclerosis carrying the pathogenic GGGGCC hexanucleotide repeat expansion of C9ORF72. *Brain*, **2012**, 135, 784-93	11.2	153
170	Laminin induced local axonal translation of β-actin mRNA is impaired in SMN-deficient motoneurons. *Histochemistry and Cell Biology*, **2012**, 138, 737-48	2.4	36
169	Na(+)-D-glucose cotransporter SGLT1 is pivotal for intestinal glucose absorption and glucose-dependent incretin secretion. *Diabetes*, **2012**, 61, 187-96	0.9	456
168	Leukemia inhibitory factor protects axons in experimental autoimmune encephalomyelitis via an oligodendrocyte-independent mechanism. *PLoS ONE*, **2012**, 7, e47379	3.7	22
167	Ribosomal deficiencies in Diamond-Blackfan anemia impair translation of transcripts essential for differentiation of murine and human erythroblasts. *Blood*, **2012**, 119, 262-72	2.2	120
166	Functional improvement in mouse models of familial amyotrophic lateral sclerosis by PEGylated insulin-like growth factor I treatment depends on disease severity. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2012**, 13, 418-29		21
165	Role of Na(v)1.9 in activity-dependent axon growth in motoneurons. *Human Molecular Genetics*, **2012**, 21, 3655-67	5.6	29
164	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, 341-6		9
163	Local axonal function of STAT3 rescues axon degeneration in the pmn model of motoneuron disease. *Journal of Cell Biology*, **2012**, 199, 437-51	7.3	60
162	Microtubule associated tumor suppressor 1 deficient mice develop spontaneous heart hypertrophy and SLE-like lymphoproliferative disease. *International Journal of Oncology*, **2012**, 40, 1079-88	4.4	11

161	C-terminal FUS/TLS mutations in familial and sporadic ALS in Germany. *Neurobiology of Aging*, **2011**, 32, 548.e1-4	5.6	42
160	A hexanucleotide repeat expansion in C9ORF72 is the cause of chromosome 9p21-linked ALS-FTD. *Neuron*, **2011**, 72, 257-68	13.9	3018
159	Developing standard procedures for pre-clinical efficacy studies in mouse models of spinal muscular atrophy: report of the expert workshop "Pre-clinical testing for SMA", Zürich, March 29-30th 2010. *Neuromuscular Disorders*, **2011**, 21, 74-7	2.9	16
158	Molecular pathways of motor neuron injury in amyotrophic lateral sclerosis. *Nature Reviews Neurology*, **2011**, 7, 616-30	15	428
157	A new postal code for dendritic mRNA transport in neurons. *EMBO Reports*, **2011**, 12, 614-6	6.5	4
156	Lectin-based isolation and culture of mouse embryonic motoneurons. *Journal of Visualized Experiments*, **2011**,	1.6	11
155	Therapeutic effects of PEGylated insulin-like growth factor I in the pmn mouse model of motoneuron disease. *Experimental Neurology*, **2011**, 232, 261-9	5.7	19
154	Loss of striatal type 1 cannabinoid receptors is a key pathogenic factor in Huntington's disease. *Brain*, **2011**, 134, 119-36	11.2	154
153	Therapy development in spinal muscular atrophy. *Nature Neuroscience*, **2010**, 13, 795-9	25.5	29
152	Isolation and enrichment of embryonic mouse motoneurons from the lumbar spinal cord of individual mouse embryos. *Nature Protocols*, **2010**, 5, 31-8	18.8	86
151	Neurotrophin receptors TrkB.T1 and p75NTR cooperate in modulating both functional and structural plasticity in mature hippocampal neurons. *European Journal of Neuroscience*, **2010**, 32, 1854-65	3.5	43
150	The heterogeneous nuclear ribonucleoprotein-R is necessary for axonal beta-actin mRNA translocation in spinal motor neurons. *Human Molecular Genetics*, **2010**, 19, 1951-66	5.6	75
149	PTEN depletion rescues axonal growth defect and improves survival in SMN-deficient motor neurons. *Human Molecular Genetics*, **2010**, 19, 3159-68	5.6	97
148	Functional role of brain-derived neurotrophic factor in neuroprotective autoimmunity: therapeutic implications in a model of multiple sclerosis. *Brain*, **2010**, 133, 2248-63	11.2	153
147	Global deprivation of brain-derived neurotrophic factor in the CNS reveals an area-specific requirement for dendritic growth. *Journal of Neuroscience*, **2010**, 30, 1739-49	6.6	220
146	Ciliary neurotrophic factor-induced sprouting preserves motor function in a mouse model of mild spinal muscular atrophy. *Human Molecular Genetics*, **2010**, 19, 973-86	5.6	54
145	Neuromuscular defects and breathing disorders in a new mouse model of spinal muscular atrophy. *Neurobiology of Disease*, **2010**, 38, 125-35	7.5	59
144	Downregulation of genes with a function in axon outgrowth and synapse formation in motor neurones of the VEGFdelta/delta mouse model of amyotrophic lateral sclerosis. *BMC Genomics*, **2010**, 11, 203	4.5	32

143	A two-stage genome-wide association study of sporadic amyotrophic lateral sclerosis. *Human Molecular Genetics*, **2009**, 18, 1524-32	5.6	91
142	Progressive postnatal motoneuron loss in mice lacking GDF-15. *Journal of Neuroscience*, **2009**, 29, 13640-8	6.6	76
141	Stiff person syndrome associated anti-amphiphysin antibodies reduce GABA associated [Ca(2+)]i rise in embryonic motoneurons. *Neurobiology of Disease*, **2009**, 36, 191-9	7.5	21
140	Valproic acid blocks excitability in SMA type I mouse motor neurons. *Neurobiology of Disease*, **2009**, 36, 477-87	7.5	19
139	Drosophila RSK negatively regulates bouton number at the neuromuscular junction. *Developmental Neurobiology*, **2009**, 69, 212-20	3.2	11
138	Synaptic PRG-1 modulates excitatory transmission via lipid phosphate-mediated signaling. *Cell*, **2009**, 138, 1222-35	56.2	100
137	P90 Ribosomal s6 kinase 2 negatively regulates axon growth in motoneurons. *Molecular and Cellular Neurosciences*, **2009**, 42, 134-41	4.8	12
136	Novel role for vascular endothelial growth factor (VEGF) receptor-1 and its ligand VEGF-B in motor neuron degeneration. *Journal of Neuroscience*, **2008**, 28, 10451-9	6.6	104
135	Single-dose application of CNTF and BDNF improves remyelination of regenerating nerve fibers after C7 ventral root avulsion and replantation. *Journal of Neurotrauma*, **2008**, 25, 384-400	5.4	28
134	Spiral ganglion outgrowth and hearing development in p75-deficient mice. *Audiology and Neuro-Otology*, **2008**, 13, 388-95	2.2	9
133	Leukemia inhibitory factor deficiency modulates the immune response and limits autoimmune demyelination: a new role for neurotrophic cytokines in neuroinflammation. *Journal of Immunology*, **2008**, 180, 2204-13	5.3	37
132	Defective Ca2+ channel clustering in axon terminals disturbs excitability in motoneurons in spinal muscular atrophy. *Journal of Cell Biology*, **2007**, 179, 139-49	7.3	135
131	Novel SOD1 N86K mutation is associated with a severe phenotype in familial ALS. *Muscle and Nerve*, **2007**, 36, 111-4	3.4	4
130	High-efficiency gene transfer into cultured embryonic motoneurons using recombinant lentiviruses. *Histochemistry and Cell Biology*, **2007**, 127, 439-48	2.4	14
129	Hypomorphic Sox10 alleles reveal novel protein functions and unravel developmental differences in glial lineages. *Development (Cambridge)*, **2007**, 134, 3271-81	6.6	75
128	Adenosine receptor A2A-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, 17210-5	11.5	99
127	The CB1 cannabinoid receptor mediates excitotoxicity-induced neural progenitor proliferation and neurogenesis. *Journal of Biological Chemistry*, **2007**, 282, 23892-8	5.4	115
126	Large-scale pathways-based association study in amyotrophic lateral sclerosis. *Brain*, **2007**, 130, 2292-301	11.2	29

125	Differential modulation of neurite growth by the S- and the L-forms of bag1, a co-chaperone of Hsp70. *Neurodegenerative Diseases*, **2007**, 4, 261-9	2.3	11
124	Haploinsufficiency of c-Met in cd44-/- mice identifies a collaboration of CD44 and c-Met in vivo. *Molecular and Cellular Biology*, **2007**, 27, 8797-806	4.8	44
123	Fgfr2 and Fgfr3 are not required for patterning and maintenance of the midbrain and anterior hindbrain. *Developmental Biology*, **2007**, 303, 231-43	3.1	25
122	SC1/PRDM4 is a critical mediator for cell death, mitosis and differentiation of neural stem cells. *Journal of Stem Cells and Regenerative Medicine*, **2007**, 2, 216-7	0.8	1
121	The role of neurotrophins in muscle under physiological and pathological conditions. *Muscle and Nerve*, **2006**, 33, 462-76	3.4	54
120	Distinct and overlapping alterations in motor and sensory neurons in a mouse model of spinal muscular atrophy. *Human Molecular Genetics*, **2006**, 15, 511-8	5.6	70
119	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, 7871-6	11.5	26
118	Loss of leukemia inhibitory factor receptor beta or cardiotrophin-1 causes similar deficits in preganglionic sympathetic neurons and adrenal medulla. *Journal of Neuroscience*, **2006**, 26, 1823-32	6.6	17
117	Effects of root replantation and neurotrophic factor treatment on long-term motoneuron survival and axonal regeneration after C7 spinal root avulsion. *Experimental Neurology*, **2005**, 194, 341-54	5.7	17
116	Evidence that embryonic neurons regulate the onset of cortical gliogenesis via cardiotrophin-1. *Neuron*, **2005**, 48, 253-65	13.9	275
115	Ciliary neurotrophic factor-immunoreactivity in olfactory sensory neurons. *Neuroscience*, **2005**, 134, 1179-94	3.9	13
114	Mechanisms of axonal degeneration in EAE--lessons from CNTF and MHC I knockout mice. *Journal of the Neurological Sciences*, **2005**, 233, 167-72	3.2	31
113	Motoneuron survival after C7 nerve root avulsion and replantation in the adult rabbit: effects of local ciliary neurotrophic factor and brain-derived neurotrophic factor application. *Plastic and Reconstructive Surgery*, **2005**, 115, 2042-50	2.7	15
112	Bag1 is essential for differentiation and survival of hematopoietic and neuronal cells. *Nature Neuroscience*, **2005**, 8, 1169-78	25.5	108
111	Optical assessment of motoneuron function in a "twenty-four-hour" acute spinal cord slice model from fetal rats. *Journal of Neuroscience Methods*, **2005**, 141, 309-20	3	8
110	Neurotrophic factors **2005**, 94-107		2
109	Glycinergic and GABAergic synaptic activity differentially regulate motoneuron survival and skeletal muscle innervation. *Journal of Neuroscience*, **2005**, 25, 1249-59	6.6	49
108	Triple knock-out of CNTF, LIF, and CT-1 defines cooperative and distinct roles of these neurotrophic factors for motoneuron maintenance and function. *Journal of Neuroscience*, **2005**, 25, 1778-87	6.6	64

107	The Notch target genes Hey1 and Hey2 are required for embryonic vascular development. *Genes and Development*, **2004**, 18, 901-11	12.6	507
106	The p75NTR-interacting protein SC1 inhibits cell cycle progression by transcriptional repression of cyclin E. *Journal of Cell Biology*, **2004**, 164, 985-96	7.3	57
105	Truncated TrkB receptor-induced outgrowth of dendritic filopodia involves the p75 neurotrophin receptor. *Journal of Cell Science*, **2004**, 117, 5803-14	5.3	62
104	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, 2031-42	5.6	70
103	Dynamic changes in C-Raf phosphorylation and 14-3-3 protein binding in response to growth factor stimulation: differential roles of 14-3-3 protein binding sites. *Journal of Biological Chemistry*, **2004**, 279, 14074-86	5.4	46
102	Axonal defects in mouse models of motoneuron disease. *Journal of Neurobiology*, **2004**, 58, 272-86		75
101	Mouse mutants and cell culture models of motoneuron disease. *Drug Discovery Today: Disease Models*, **2004**, 1, 345-350	1.3	
100	Neurotrophic Factors. *Handbook of Experimental Pharmacology*, **2004**, 285-310	3.2	
99	Signalling mechanisms for survival of lesioned motoneurons. *Acta Neurochirurgica Supplementum*, **2004**, 89, 21-35	1.7	9
98	Endogenous ciliary neurotrophic factor protects GABAergic, but not cholinergic, septohippocampal neurons following fimbria-fornix transection. *Brain Pathology*, **2003**, 13, 309-21	6	17
97	Early onset of degenerative changes at nodes of Ranvier in alpha-motor axons of Cntf null (-/-) mutant mice. *Glia*, **2003**, 42, 340-9	9	24
96	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, 144-9		13
95	Ciliary neurotrophic factor in the olfactory bulb of rats and mice. *Neuroscience*, **2003**, 120, 99-112	3.9	16
94	Smn, the spinal muscular atrophy-determining gene product, modulates axon growth and localization of beta-actin mRNA in growth cones of motoneurons. *Journal of Cell Biology*, **2003**, 163, 801-12	7.3	508
93	Gene disruption discloses role of selenoprotein P in selenium delivery to target tissues. *Biochemical Journal*, **2003**, 370, 397-402	3.8	334
92	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	7.3	128
91	CNTF is a major protective factor in demyelinating CNS disease: a neurotrophic cytokine as modulator in neuroinflammation. *Nature Medicine*, **2002**, 8, 620-4	50.5	344
90	Neurotrophins: from enthusiastic expectations through sobering experiences to rational therapeutic approaches. *Nature Neuroscience*, **2002**, 5 Suppl, 1046-50	25.5	262

89	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, 563-9	7.3	98
88	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, 10126-31	11.5	64
87	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	5.6	218
86	Association of a null mutation in the CNTF gene with early onset of multiple sclerosis. *Archives of Neurology*, **2002**, 59, 407-9		81
85	Conditional gene ablation of Stat3 reveals differential signaling requirements for survival of motoneurons during development and after nerve injury in the adult. *Journal of Cell Biology*, **2002**, 156, 287-97	7.3	160
84	Early onset of severe familial amyotrophic lateral sclerosis with a SOD-1 mutation: potential impact of CNTF as a candidate modifier gene. *American Journal of Human Genetics*, **2002**, 70, 1277-86	11	95
83	Hey bHLH factors in cardiovascular development. *Cold Spring Harbor Symposia on Quantitative Biology*, **2002**, 67, 63-70	3.9	30
82	A null mutation in the CNTF gene is not associated with early onset of multiple sclerosis. *Archives of Neurology*, **2002**, 59, 1974; author reply 1974-5		9
81	Specific function of B-Raf in mediating survival of embryonic motoneurons and sensory neurons. *Nature Neuroscience*, **2001**, 4, 137-42	25.5	92
80	Mutations in the gene encoding immunoglobulin mu-binding protein 2 cause spinal muscular atrophy with respiratory distress type 1. *Nature Genetics*, **2001**, 29, 75-7	36.3	272
79	Neurotrophin receptor-interacting mage homologue is an inducible inhibitor of apoptosis protein-interacting protein that augments cell death. *Journal of Biological Chemistry*, **2001**, 276, 39985-9	5.4	69
78	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	5.6	74
77	Motoneuron cell death and neurotrophic factors: Basic models for development of new therapeutic strategies in ALS. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases*, **2001**, 2, s55-s68		13
76	In vivo adenoviral transduction of the neonatal rat cochlea and middle ear. *Hearing Research*, **2001**, 151, 30-40	3.9	29
75	Cardiotrophin-1, a muscle-derived cytokine, is required for the survival of subpopulations of developing motoneurons. *Journal of Neuroscience*, **2001**, 21, 1283-91	6.6	121
74	Molecular mechanisms in spinal muscular atrophy: models and perspectives. *Current Opinion in Neurology*, **2001**, 14, 629-34	7.1	34
73	Motoneuron cell death and neurotrophic factors: basic models for development of new therapeutic strategies in ALS. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases*, **2001**, 2 Suppl 1, S55-68		6
72	Potential role of LIF as a modifier gene in the pathogenesis of amyotrophic lateral sclerosis. *Neurology*, **2000**, 54, 1003-5	6.5	30

71	Reg-2 is a motoneuron neurotrophic factor and a signalling intermediate in the CNTF survival pathway. *Nature Cell Biology*, **2000**, 2, 906-14	23.4	133
70	Developmental motoneuron cell death and neurotrophic factors. *Cell and Tissue Research*, **2000**, 301, 71-84	4.2	119
69	The role of SMN in spinal muscular atrophy. *Journal of Neurology*, **2000**, 247 Suppl 1, I37-42	5.5	48
68	Contribution of Ca(2+)-permeable AMPA/KA receptors to glutamate-induced Ca(2+) rise in embryonic lumbar motoneurons in situ. *Journal of Neurophysiology*, **2000**, 83, 50-9	3.2	25
67	A phase I/II trial of recombinant methionyl human brain derived neurotrophic factor administered by intrathecal infusion to patients with amyotrophic lateral sclerosis. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases*, **2000**, 1, 201-6		216
66	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, 341-6	5.6	130
65	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*, **2000**, 9, 333-9	5.6	553
64	Does the survival motor neuron protein (SMN) interact with Bcl-2?. *Journal of Medical Genetics*, **2000**, 37, 536-9	5.8	12
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