Don W Cleveland

List of Publications by Year
in descending order

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195 papers	51,641 citations	1040 113 h-index	2558 195 g-index
204 all docs	204 docs citations	204 times ranked	35305 citing authors

#	Article	IF	Citations
1	Decoding ALS: from genes to mechanism. Nature, 2016, 539, 197-206.	13.7	1,533
2	Onset and Progression in Inherited ALS Determined by Motor Neurons and Microglia. Science, 2006, 312, 1389-1392.	6.0	1,457
3	Converging Mechanisms in ALS and FTD: Disrupted RNA and Protein Homeostasis. Neuron, 2013, 79, 416-438.	3.8	1,401
4	An adverse property of a familial ALS-linked SOD1 mutation causes motor neuron disease characterized by vacuolar degeneration of mitochondria. Neuron, 1995, 14, 1105-1116.	3.8	1,394
5	ALS: A Disease of Motor Neurons and Their Nonneuronal Neighbors. Neuron, 2006, 52, 39-59.	3.8	1,271
6	UNRAVELING THE MECHANISMS INVOLVED IN MOTOR NEURON DEGENERATION IN ALS. Annual Review of Neuroscience, 2004, 27, 723-749.	5.0	1,270
7	From charcot to lou gehrig: deciphering selective motor neuron death in als. Nature Reviews Neuroscience, 2001, 2, 806-819.	4.9	1,264
8	Long pre-mRNA depletion and RNA missplicing contribute to neuronal vulnerability from loss of TDP-43. Nature Neuroscience, 2011, 14, 459-468.	7.1	1,050
9	On the road to cancer: aneuploidy and the mitotic checkpoint. Nature Reviews Cancer, 2005, 5, 773-785.	12.8	1,046
10	Aggregation and Motor Neuron Toxicity of an ALS-Linked SOD1 Mutant Independent from Wild-Type SOD1. , 1998, 281, 1851-1854.		1,038
11	Astrocytes as determinants of disease progression in inherited amyotrophic lateral sclerosis. Nature Neuroscience, 2008, 11, 251-253.	7.1	1,015
12	Chromosomal instability drives metastasis through a cytosolic DNA response. Nature, 2018, 553, 467-472.	13.7	1,002
13	Centromeres and Kinetochores. Cell, 2003, 112, 407-421.	13.5	926
14	Nonâ€“cell autonomous toxicity in neurodegenerative disorders: ALS and beyond. Journal of Cell Biology, 2009, 187, 761-772.	2.3	913
15	Purification of tau, a microtubule-associated protein that induces assembly of microtubules from purified tubulin. Journal of Molecular Biology, 1977, 116, 207-225.	2.0	880
16	TDP-43 and FUS/TLS: emerging roles in RNA processing and neurodegeneration. Human Molecular Genetics, 2010, 19, R46-R64.	1.4	840
17	Physical and chemical properties of purified tau factor and the role of tau in microtubule assembly. Journal of Molecular Biology, 1977, 116, 227-247.	2.0	792
18	Focal loss of the glutamate transporter EAAT2 in a transgenic rat model of SOD1 mutant-mediated amyotrophic lateral sclerosis (ALS). Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1604-1609.	3.3	766

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19	Boveri revisited: chromosomal instability, aneuploidy and tumorigenesis. Nature Reviews Molecular Cell Biology, 2009, 10, 478-487.	16.1	745
20	Aneuploidy Acts Both Oncogenically and as a Tumor Suppressor. Cancer Cell, 2007, 11, 25-36.	7.7	652
21	Sustained Therapeutic Reversal of Huntington's Disease by Transient Repression of Huntingtin Synthesis. Neuron, 2012, 74, 1031-1044.	3.8	635
22	Divergent roles of ALS-linked proteins FUS/TLS and TDP-43 intersect in processing long pre-mRNAs. Nature Neuroscience, 2012, 15, 1488-1497.	7.1	628
23	The human CENP-A centromeric nucleosome-associated complex. Nature Cell Biology, 2006, 8, 458-469.	4.6	615
24	Centromere-Specific Assembly of CENP-A Nucleosomes Is Mediated by HJURP. Cell, 2009, 137, 472-484.	13.5	588
25	Slowing of axonal transport is a very early event in the toxicity of ALSâ€“linked SOD1 mutants to motor neurons. Nature Neuroscience, 1999, 2, 50-56.	7.1	559
26	Propagation of centromeric chromatin requires exit from mitosis. Journal of Cell Biology, 2007, 176, 795-805.	2.3	558
27	A Complex of NuMA and Cytoplasmic Dynein Is Essential for Mitotic Spindle Assembly. Cell, 1996, 87, 447-458.	13.5	535
28	Targeted degradation of sense and antisense C9orf72 RNA foci as therapy for ALS and frontotemporal degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4530-9.	3.3	508
29	Toxicity of Familial ALS-Linked SOD1 Mutants from Selective Recruitment to Spinal Mitochondria. Neuron, 2004, 43, 5-17.	3.8	497
30	Degeneration and impaired regeneration of gray matter oligodendrocytes in amyotrophic lateral sclerosis. Nature Neuroscience, 2013, 16, 571-579.	7.1	485
31	Gain of Toxicity from ALS/FTD-Linked Repeat Expansions in C9ORF72 Is Alleviated by Antisense Oligonucleotides Targeting GGGGCC-Containing RNAs. Neuron, 2016, 90, 535-550.	3.8	437
32	Antisense oligonucleotide therapy for neurodegenerative disease. Journal of Clinical Investigation, 2006, 116, 2290-2296.	3.9	425
33	CENP-E is a putative kinetochore motor that accumulates just before mitosis. Nature, 1992, 359, 536-539.	13.7	412
34	Motoneuron Death Triggered by a Specific Pathway Downstream of Fas. Neuron, 2002, 35, 1067-1083.	3.8	407
35	Glial cells as intrinsic components of non-cell-autonomous neurodegenerative disease. Nature Neuroscience, 2007, 10, 1355-1360.	7.1	406
36	Unpolymerized tubulin modulates the level of tubulin mRNAs. Cell, 1981, 25, 537-546.	13.5	404

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37	ALS-associated mutations in TDP-43 increase its stability and promote TDP-43 complexes with FUS/TLS. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13318-13323.	3.3	391
38	Lethality to human cancer cells through massive chromosome loss by inhibition of the mitotic checkpoint. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8699-8704.	3.3	389
39	CENP-E Is a Plus Endâ€“Directed Kinetochore Motor Required for Metaphase Chromosome Alignment. Cell, 1997, 91, 357-366.	13.5	388
40	ALS-linked TDP-43 mutations produce aberrant RNA splicing and adult-onset motor neuron disease without aggregation or loss of nuclear TDP-43. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E736-45.	3.3	370
41	A mutant neurofilament subunit causes massive, selective motor neuron death: Implications for the pathogenesis of human motor neuron disease. Neuron, 1994, 13, 975-988.	3.8	368
42	Structural determinants for generating centromeric chromatin. Nature, 2004, 430, 578-582.	13.7	364
43	Autoregulated instability of Î²-tubulin mRNAs by recognition of the nascent amino terminus of Î²tubulin. Nature, 1988, 334, 580-585.	13.7	358
44	Premature polyadenylation-mediated loss of stathmin-2 is a hallmark of TDP-43-dependent neurodegeneration. Nature Neuroscience, 2019, 22, 180-190.	7.1	345
45	CENP-E forms a link between attachment of spindle microtubules to kinetochores and the mitotic checkpoint. Nature Cell Biology, 2000, 2, 484-491.	4.6	343
46	Cytoplasmic TDP-43 De-mixing Independent of Stress Granules Drives Inhibition of Nuclear Import, Loss of Nuclear TDP-43, and Cell Death. Neuron, 2019, 102, 339-357.e7.	3.8	331
47	Reversing a model of Parkinsonâ€™s disease with in situ converted nigral neurons. Nature, 2020, 582, 550-556.	13.7	316
48	Epigenetic Centromere Propagation and the Nature of CENP-A Nucleosomes. Cell, 2011, 144, 471-479.	13.5	311
49	Understanding the role of TDP-43 and FUS/TLS in ALS and beyond. Current Opinion in Neurobiology, 2011, 21, 904-919.	2.0	308
50	The SARS-CoV-2 nucleocapsid phosphoprotein forms mutually exclusive condensates with RNA and the membrane-associated M protein. Nature Communications, 2021, 12, 502.	5.8	307
51	Mps1 Is a Kinetochore-Associated Kinase Essential for the Vertebrate Mitotic Checkpoint. Cell, 2001, 106, 83-93.	13.5	303
52	Direct conversion of patient fibroblasts demonstrates non-cell autonomous toxicity of astrocytes to motor neurons in familial and sporadic ALS. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 829-832.	3.3	296
53	Unstable Kinetochore-Microtubule Capture and Chromosomal Instability Following Deletion of CENP-E. Developmental Cell, 2002, 3, 351-365.	3.1	295
54	An Essential Cytoskeletal Linker Protein Connecting Actin Microfilaments to Intermediate Filaments. Cell, 1996, 86, 655-665.	13.5	294

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55	Centrosome Amplification Is Sufficient to Promote Spontaneous Tumorigenesis in Mammals. Developmental Cell, 2017, 40, 313-322.e5.	3.1	291
56	Inducible, reversible system for the rapid and complete degradation of proteins in mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3350-7.	3.3	277
57	C9ORF72 poly(GA) aggregates sequester and impair HR23 and nucleocytoplasmic transport proteins. Nature Neuroscience, 2016, 19, 668-677.	7.1	268
58	Mutant SOD1 in cell types other than motor neurons and oligodendrocytes accelerates onset of disease in ALS mice. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7594-7599.	3.3	258
59	Misfolded Mutant SOD1 Directly Inhibits VDAC1 Conductance in a Mouse Model of Inherited ALS. Neuron, 2010, 67, 575-587.	3.8	256
60	Mutant SOD1 causes motor neuron disease independent of copper chaperoneâ€“mediated copper loading. Nature Neuroscience, 2002, 5, 301-307.	7.1	253
61	Polo-like kinase 4 kinase activity limits centrosome overduplication by autoregulating its own stability. Journal of Cell Biology, 2010, 188, 191-198.	2.3	251
62	Single-Stranded RNAs Use RNAi to Potently and Allele-Selectively Inhibit Mutant Huntingtin Expression. Cell, 2012, 150, 895-908.	13.5	250
63	Selective association of misfolded ALS-linked mutant SOD1 with the cytoplasmic face of mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4022-4027.	3.3	237
64	Centromere-associated protein-E is essential for the mammalian mitotic checkpoint to prevent aneuploidy due to single chromosome loss. Journal of Cell Biology, 2003, 162, 551-563.	2.3	233
65	Centromere Identity Maintained by Nucleosomes Assembled with Histone H3 Containing the CENP-A Targeting Domain. Molecular Cell, 2007, 25, 309-322.	4.5	231
66	Chromoanagenesis and cancer: mechanisms and consequences of localized, complex chromosomal rearrangements. Nature Medicine, 2012, 18, 1630-1638.	15.2	231
67	Chromothripsis drives the evolution of gene amplification in cancer. Nature, 2021, 591, 137-141.	13.7	228
68	A two-step mechanism for epigenetic specification of centromere identity and function. Nature Cell Biology, 2013, 15, 1056-1066.	4.6	226
69	Unattached Kinetochores Catalyze Production of an Anaphase Inhibitor that Requires a Mad2 Template to Prime Cdc20 for BubR1 Binding. Developmental Cell, 2009, 16, 105-117.	3.1	225
70	From Charcot to SOD1. Neuron, 1999, 24, 515-520.	3.8	222
71	Activating and Silencing the Mitotic Checkpoint through CENP-E-Dependent Activation/Inactivation of BubR1. Cell, 2003, 114, 87-98.	13.5	221
72	ZW10 links mitotic checkpoint signaling to the structural kinetochore. Journal of Cell Biology, 2005, 169, 49-60.	2.3	221

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73	The Microtubule-dependent Motor Centromereâ€“associated Protein E (CENP-E) Is an Integral Component of Kinetochore Corona Fibers That Link Centromeres to Spindle Microtubules. Journal of Cell Biology, 1997, 139, 435-447.	2.3	219
74	Going new places using an old MAP: tau, microtubules and human neurodegenerative disease. Current Opinion in Cell Biology, 2001, 13, 41-48.	2.6	218
75	Antisense Oligonucleotide Therapies for Neurodegenerative Diseases. Annual Review of Neuroscience, 2019, 42, 385-406.	5.0	214
76	CENP-E as an Essential Component of the Mitotic Checkpoint In Vitro. Cell, 2000, 102, 817-826.	13.5	211
77	Absence of neurofilaments reduces the selective vulnerability of motor neurons and slows disease caused by a familial amyotrophic lateral sclerosis-linked superoxide dismutase 1 mutant. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9631-9636.	3.3	207
78	Aurora Kinases and Protein Phosphatase 1 Mediate Chromosome Congression through Regulation of CENP-E. Cell, 2010, 142, 444-455.	13.5	207
79	Chromosome missegregation rate predicts whether aneuploidy will promote or suppress tumors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4134-41.	3.3	207
80	DNA Sequence-Specific Binding of CENP-B Enhances the Fidelity of Human Centromere Function. Developmental Cell, 2015, 33, 314-327.	3.1	207
81	Selective Y centromere inactivation triggers chromosome shattering in micronuclei and repair by non-homologous end joining. Nature Cell Biology, 2017, 19, 68-75.	4.6	207
82	ALS-causative mutations in FUS/TLS confer gain and loss of function by altered association with SMN and U1-snRNP. Nature Communications, 2015, 6, 6171.	5.8	205
83	HSP70 chaperones RNA-free TDP-43 into anisotropic intranuclear liquid spherical shells. Science, 2021, 371, .	6.0	200
84	An immunological epitope selective for pathological monomer-misfolded SOD1 in ALS. Nature Medicine, 2007, 13, 754-759.	15.2	199
85	Protective effect of neurofilament heavy gene overexpression in motor neuron disease induced by mutant superoxide dismutase. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9626-9630.	3.3	193
86	Polyglutamine-Expanded Huntingtin Exacerbates Age-Related Disruption of Nuclear Integrity and Nucleocytoplasmic Transport. Neuron, 2017, 94, 48-57.e4.	3.8	190
87	ALS/FTD-Linked Mutation in FUS Suppresses Intra-axonal Protein Synthesis and Drives Disease Without Nuclear Loss-of-Function of FUS. Neuron, 2018, 100, 816-830.e7.	3.8	185
88	The quantitative architecture of centromeric chromatin. ELife, 2014, 3, e02137.	2.8	179
89	Therapeutic AAV9-mediated Suppression of Mutant SOD1 Slows Disease Progression and Extends Survival in Models of Inherited ALS. Molecular Therapy, 2013, 21, 2148-2159.	3.7	178
90	Removal of Spindly from microtubule-attached kinetochores controls spindle checkpoint silencing in human cells. Genes and Development, 2010, 24, 957-971.	2.7	173

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91	Common molecular signature in SOD1 for both sporadic and familial amyotrophic lateral sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12524-12529.	3.3	171
92	Dynamics of Centromere and Kinetochore Proteins. Current Biology, 2004, 14, 942-952.	1.8	170
93	C9ORF72 GGGGCC repeat-associated non-AUG translation is upregulated by stress through eIF2Î± phosphorylation. Nature Communications, 2018, 9, 51.	5.8	166
94	Translational profiling identifies a cascade of damage initiated in motor neurons and spreading to glia in mutant SOD1-mediated ALS. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6993-7002.	3.3	165
95	Rebuilding Chromosomes After Catastrophe: Emerging Mechanisms of Chromothripsis. Trends in Cell Biology, 2017, 27, 917-930.	3.6	162
96	Enhancing Mitochondrial Calcium Buffering Capacity Reduces Aggregation of Misfolded SOD1 and Motor Neuron Cell Death without Extending Survival in Mouse Models of Inherited Amyotrophic Lateral Sclerosis. Journal of Neuroscience, 2013, 33, 4657-4671.	1.7	161
97	Activated protein C therapy slows ALS-like disease in mice by transcriptionally inhibiting SOD1 in motor neurons and microglia cells. Journal of Clinical Investigation, 2009, 119, 3437-49.	3.9	158
98	Elevated PGC-1Î± Activity Sustains Mitochondrial Biogenesis and Muscle Function without Extending Survival in a Mouse Model of Inherited ALS. Cell Metabolism, 2012, 15, 778-786.	7.2	158
99	Reduced C9ORF72 function exacerbates gain of toxicity from ALS/FTD-causing repeat expansion in C9orf72. Nature Neuroscience, 2020, 23, 615-624.	7.1	157
100	ALS-linked mutant superoxide dismutase 1 (SOD1) alters mitochondrial protein composition and decreases protein import. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21146-21151.	3.3	155
101	Synthetic CRISPR RNA-Cas9â€“guided genome editing in human cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E7110-7.	3.3	151
102	Misregulated RNA processing in amyotrophic lateral sclerosis. Brain Research, 2012, 1462, 3-15.	1.1	150
103	Chromosome segregation errors generate a diverse spectrum of simple and complex genomic rearrangements. Nature Genetics, 2019, 51, 705-715.	9.4	145
104	Superoxide Dismutase 1 Subunits with Mutations Linked to Familial Amyotrophic Lateral Sclerosis Do Not Affect Wild-type Subunit Function. Journal of Biological Chemistry, 1995, 270, 3234-3238.	1.6	142
105	Gene transfer demonstrates that muscle is not a primary target for non-cell-autonomous toxicity in familial amyotrophic lateral sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19546-19551.	3.3	140
106	Microtubule capture by CENP-E silences BubR1-dependent mitotic checkpoint signaling. Journal of Cell Biology, 2005, 170, 873-880.	2.3	134
107	Double-strand DNA breaks recruit the centromeric histone CENP-A. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15762-15767.	3.3	134
108	Elevation of tubulin levels by microinjection suppresses new tubulin synthesis. Nature, 1983, 305, 738-740.	13.7	132

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109	An epigenetic mark generated by the incorporation of CENP-A into centromeric nucleosomes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5008-5013.	3.3	132
110	The autoregulated instability of Polo-like kinase 4 limits centrosome duplication to once per cell cycle. Genes and Development, 2012, 26, 2684-2689.	2.7	132
111	Sequences that confer Î²-tubulin autoregulation through modulated mRNA stability reside within exon 1 of a Î²-tubulin mRNA. Cell, 1987, 50, 671-679.	13.5	131
112	CENP-A-containing Nucleosomes: Easier Disassembly versus Exclusive Centromeric Localization. Journal of Molecular Biology, 2007, 370, 555-573.	2.0	126
113	Gene replacement in mice reveals that the heavily phosphorylated tail of neurofilament heavy subunit does not affect axonal caliber or the transit of cargoes in slow axonal transport. Journal of Cell Biology, 2002, 158, 681-693.	2.3	124
114	Toxicity from different SOD1 mutants dysregulates the complement system and the neuronal regenerative response in ALS motor neurons. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7319-7326.	3.3	124
115	Kinetochore kinesin CENP-E is a processive bi-directional tracker of dynamic microtubule tips. Nature Cell Biology, 2013, 15, 1079-1088.	4.6	122
116	Misfolded SOD1 Associated with Motor Neuron Mitochondria Alters Mitochondrial Shape and Distribution Prior to Clinical Onset. PLoS ONE, 2011, 6, e22031.	1.1	116
117	Virus-delivered small RNA silencing sustains strength in amyotrophic lateral sclerosis. Annals of Neurology, 2005, 57, 773-776.	2.8	108
118	The Copper Chaperone CCS Is Abundant in Neurons and Astrocytes in Human and Rodent Brain. Journal of Neurochemistry, 1999, 72, 422-429.	2.1	107
119	CRISPR-Cas9 Screens Identify the RNA Helicase DDX3X as a Repressor of C9ORF72 (GGGGCC)n Repeat-Associated Non-AUG Translation. Neuron, 2019, 104, 885-898.e8.	3.8	107
120	Human Zwint-1 Specifies Localization of Zeste White 10 to Kinetochores and Is Essential for Mitotic Checkpoint Signaling. Journal of Biological Chemistry, 2004, 279, 54590-54598.	1.6	106
121	Diversity among tubulin subunits: Toward what functional end?. Cytoskeleton, 1990, 16, 159-163.	4.4	105
122	Unstable microtubule capture at kinetochores depleted of the centromere-associated protein CENP-F. EMBO Journal, 2005, 24, 3927-3939.	3.5	104
123	Novel clinical associations with specific C9ORF72 transcripts in patients with repeat expansions in C9ORF72. Acta Neuropathologica, 2015, 130, 863-876.	3.9	104
124	Centrosomes, chromosome instability (CIN) and aneuploidy. Current Opinion in Cell Biology, 2012, 24, 809-815.	2.6	103
125	Causes and consequences of micronuclei. Current Opinion in Cell Biology, 2021, 70, 91-99.	2.6	102
126	Macrophage Migration Inhibitory Factor as a Chaperone Inhibiting Accumulation of Misfolded SOD1. Neuron, 2015, 86, 218-232.	3.8	98

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127	Axonal Transport of Mutant Superoxide Dismutase 1 and Focal Axonal Abnormalities in the Proximal Axons of Transgenic Mice. Neurobiology of Disease, 1998, 5, 27-35.	2.1	96
128	Human Neural Stem Cell Replacement Therapy for Amyotrophic Lateral Sclerosis by Spinal Transplantation. PLoS ONE, 2012, 7, e42614.	1.1	95
129	The Aneuploidy Paradox in Cell Growth and Tumorigenesis. Cancer Cell, 2008, 14, 431-433.	7.7	93
130	Elevation of the Hsp70 chaperone does not effect toxicity in mouse models of familial amyotrophic lateral sclerosis. Journal of Neurochemistry, 2005, 93, 875-882.	2.1	92
131	Oxidation versus aggregation â€" how do SOD1 mutants cause ALS?. Nature Medicine, 2000, 6, 1320-1321.	15.2	91
132	Cerebellar c9RAN proteins associate with clinical and neuropathological characteristics of C9ORF72 repeat expansion carriers. Acta Neuropathologica, 2015, 130, 559-573.	3.9	89
133	CENP-A Is Dispensable for Mitotic Centromere Function after Initial Centromere/Kinetochore Assembly. Cell Reports, 2016, 17, 2394-2404.	2.9	89
134	Catalytic Assembly of the Mitotic Checkpoint Inhibitor BubR1-Cdc20 by a Mad2-Induced Functional Switch in Cdc20. Molecular Cell, 2013, 51, 92-104.	4.5	88
135	Mutations in CENPE define a novel kinetochore-centromeric mechanism for microcephalic primordial dwarfism. Human Genetics, 2014, 133, 1023-1039.	1.8	82
136	Slow axonal transport: fast motors in the slow lane. Current Opinion in Cell Biology, 2002, 14, 58-62.	2.6	80
137	Spinal subpial delivery of AAV9 enables widespread gene silencing and blocks motoneuron degeneration in ALS. Nature Medicine, 2020, 26, 118-130.	15.2	80
138	Sequence variants in human neurofilament proteins: Absence of linkage to familial amyotrophic lateral sclerosis. Annals of Neurology, 1996, 40, 603-610.	2.8	78
139	Deletion or Inhibition of the Oxygen Sensor PHD1 Protects against Ischemic Stroke via Reprogramming of Neuronal Metabolism. Cell Metabolism, 2016, 23, 280-291.	7.2	77
140	Centromeres are maintained by fastening CENP-A to DNA and directing an arginine anchor-dependent nucleosome transition. Nature Communications, 2017, 8, 15775.	5.8	75
141	Misfolded SOD1 is not a primary component of sporadic ALS. Acta Neuropathologica, 2017, 134, 97-111.	3.9	74
142	Wild type human TDP-43 potentiates ALS-linked mutant TDP-43 driven progressive motor and cortical neuron degeneration with pathological features of ALS. Acta Neuropathologica Communications, 2015, 3, 36.	2.4	73
143	Human Condensin Function Is Essential for Centromeric Chromatin Assembly and Proper Sister Kinetochore Orientation. PLoS ONE, 2009, 4, e6831.	1.1	73
144	The Neuroprotective Factor Wld^s Does Not Attenuate Mutant SOD1-Mediated Motor Neuron Disease. NeuroMolecular Medicine, 2004, 5, 193-204.	1.8	71

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145	Altered axonal architecture by removal of the heavily phosphorylated neurofilament tail domains strongly slows superoxide dismutase 1 mutant-mediated ALS. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10351-10356.	3.3	70
146	Chronic centrosome amplification without tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6321-30.	3.3	70
147	Progressive spinal axonal degeneration and slowness in ALS2-deficient mice. Annals of Neurology, 2006, 60, 95-104.	2.8	69
148	The <scp>AAA</scp> + <scp>ATP</scp> ase <scp>TRIP</scp> 13 remodels <scp>HORMA</scp> domains through Nâ€terminal engagement and unfolding. EMBO Journal, 2017, 36, 2419-2434.	3.5	69
149	DNA replication acts as an error correction mechanism to maintain centromere identity by restricting CENP-A to centromeres. Nature Cell Biology, 2019, 21, 743-754.	4.6	65
150	Overriding FUS autoregulation in mice triggers gain-of-toxic dysfunctions in RNA metabolism and autophagy-lysosome axis. ELife, 2019, 8, .	2.8	65
151	Toxic mutants in Charcot's sclerosis. Nature, 1995, 378, 342-343.	13.7	64
152	Intermediate filaments and their associated proteins: multiple dynamic personalities. Current Opinion in Cell Biology, 1998, 10, 93-101.	2.6	62
153	Mutant TDP-43 within motor neurons drives disease onset but not progression in amyotrophic lateral sclerosis. Acta Neuropathologica, 2017, 133, 907-922.	3.9	61
154	C1q induction and global complement pathway activation do not contribute to ALS toxicity in mutant SOD1 mice. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4385-92.	3.3	60
155	Chemically Modified Cpf1-CRISPR RNAs Mediate Efficient Genome Editing in Mammalian Cells. Molecular Therapy, 2018, 26, 1228-1240.	3.7	60
156	Rethinking Unconventional Translation in Neurodegeneration. Cell, 2017, 171, 994-1000.	13.5	56
157	Antisense Drugs Make Sense for Neurological Diseases. Annual Review of Pharmacology and Toxicology, 2021, 61, 831-852.	4.2	54
158	Human centromeric CENP-A chromatin is a homotypic, octameric nucleosome at all cell cycle points. Journal of Cell Biology, 2017, 216, 607-621.	2.3	53
159	MEDICINE: Treating Neurodegenerative Diseases with Antibiotics. Science, 2005, 307, 361-362.	6.0	51
160	Phosphorylation of Highly Conserved Neurofilament Medium KSP Repeats Is Not Required for Myelin-Dependent Radial Axonal Growth. Journal of Neuroscience, 2009, 29, 1277-1284.	1.7	51
161	Transient genomic instability drives tumorigenesis through accelerated clonal evolution. Genes and Development, 2021, 35, 1093-1108.	2.7	48
162	Epidermal development, growth control, and homeostasis in the face of centrosome amplification. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6311-20.	3.3	46

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163	BubR1 phosphorylates CENP-E as a switch enabling the transition from lateral association to end-on capture of spindle microtubules. Cell Research, 2019, 29, 562-578.	5.7	46
164	Toxicity of ALS-Linked SOD1 Mutants. Science, 2000, 288, 399a-399.	6.0	45
165	CENP-A Modifications on Ser68 and Lys124 Are Dispensable for Establishment, Maintenance, and Long-Term Function of Human Centromeres. Developmental Cell, 2017, 40, 104-113.	3.1	45
166	Use of molecular cloning methods to map the distribution of epitopes on topoisomerase I (Scl-70) recognized by sera of scleroderma patients. Arthritis and Rheumatism, 1990, 33, 1501-1511.	6.7	44
167	Centriole duplication. Cell Cycle, 2010, 9, 2803-2808.	1.3	43
168	Kinetochoreâ€“microtubule attachment throughout mitosis potentiated by the elongated stalk of the kinetochore kinesin CENP-E. Molecular Biology of the Cell, 2014, 25, 2272-2281.	0.9	40
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