

# David R Borchelt

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188  
papers

21,869  
citations

67  
h-index

147  
g-index

198  
ext. papers

23,642  
ext. citations

8.4  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
188	Blood-based biomarkers of inflammation in amyotrophic lateral sclerosis.. <i>Molecular Neurodegeneration</i> , <b>2022</b> , 17, 11	19	5
187	Impact of APOE genotype on prion-type propagation of tauopathy.. <i>Acta Neuropathologica Communications</i> , <b>2022</b> , 10, 57	7.3	0
186	Pathogenic tau recruits wild-type tau into brain inclusions and induces gut degeneration in transgenic SPAM mice.. <i>Communications Biology</i> , <b>2022</b> , 5, 446	6.7	
185	Phenotypic diversity in ALS and the role of poly-conformational protein misfolding. <i>Acta Neuropathologica</i> , <b>2021</b> , 142, 41-55	14.3	4
184	Supercharging Prions via Amyloid-Selective Lysine Acetylation. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 15196-15206	15.2	0
183	Variation in the vulnerability of mice expressing human superoxide dismutase 1 to prion-like seeding: a study of the influence of primary amino acid sequence. <i>Acta Neuropathologica Communications</i> , <b>2021</b> , 9, 92	7.3	0
182	Supercharging Prions via Amyloid-Selective Lysine Acetylation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15069-15079	16.4	0
181	Novel SOD1 monoclonal antibodies against the electrostatic loop preferentially detect misfolded SOD1 aggregates. <i>Neuroscience Letters</i> , <b>2021</b> , 742, 135553	3.3	1
180	Reactive astrocytes as treatment targets in Alzheimer's disease-Systematic review of studies using the APPswePS1dE9 mouse model. <i>Glia</i> , <b>2021</b> , 69, 1852-1881	9	12
179	Remodeling Alzheimer-amyloidosis models by seeding. <i>Molecular Neurodegeneration</i> , <b>2021</b> , 16, 8	19	0
178	Collusion of $\beta$ Synuclein and A $\beta$ aggravating co-morbidities in a novel prion-type mouse model. <i>Molecular Neurodegeneration</i> , <b>2021</b> , 16, 63	19	3
177	Subcellular diversion of cholesterol by gain- and loss-of-function mutations in PMP22. <i>Glia</i> , <b>2020</b> , 68, 2300-2315	9	4
176	Tryptophan residue 32 in human Cu-Zn superoxide dismutase modulates prion-like propagation and strain selection. <i>PLoS ONE</i> , <b>2020</b> , 15, e0227655	3.7	9
175	Therapeutic approaches targeting Apolipoprotein E function in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , <b>2020</b> , 15, 8	19	43
174	Intracerebral Expression of AAV-APOE4 Is Not Sufficient to Alter Tau Burden in Two Distinct Models of Tauopathy. <i>Molecular Neurobiology</i> , <b>2020</b> , 57, 1986-2001	6.2	4
173	IL-10 based immunomodulation initiated at birth extends lifespan in a familial mouse model of amyotrophic lateral sclerosis. <i>Scientific Reports</i> , <b>2020</b> , 10, 20862	4.9	3
172	Diversity in A $\beta$ deposit morphology and secondary proteome insolubility across models of Alzheimer-type $\beta$ amyloidosis. <i>Acta Neuropathologica Communications</i> , <b>2020</b> , 8, 43	7.3	6

171	Comparative analyses of the in vivo induction and transmission of $\beta$ synuclein pathology in transgenic mice by MSA brain lysate and recombinant $\beta$ synuclein fibrils. <i>Acta Neuropathologica Communications</i> , <b>2019</b> , 7, 80	7.3	19
170	PMP22 Regulates Cholesterol Trafficking and ABCA1-Mediated Cholesterol Efflux. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 5404-5418	6.6	18
169	N-terminal sequences in matrin 3 mediate phase separation into droplet-like structures that recruit TDP43 variants lacking RNA binding elements. <i>Laboratory Investigation</i> , <b>2019</b> , 99, 1030-1040	5.9	19
168	ALS-Linked SOD1 Mutants Enhance Neurite Outgrowth and Branching in Adult Motor Neurons. <i>iScience</i> , <b>2019</b> , 11, 294-304	6.1	12
167	Experimental Mutations in Superoxide Dismutase 1 Provide Insight into Potential Mechanisms Involved in Aberrant Aggregation in Familial Amyotrophic Lateral Sclerosis. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 719-728	3.2	6
166	Aberrant accrual of BIN1 near Alzheimer's disease amyloid deposits in transgenic models. <i>Brain Pathology</i> , <b>2019</b> , 29, 485-501	6	13
165	Characterization of gene regulation and protein interaction networks for Matrin 3 encoding mutations linked to amyotrophic lateral sclerosis and myopathy. <i>Scientific Reports</i> , <b>2018</b> , 8, 4049	4.9	25
164	Prion-like Spreading in Tauopathies. <i>Biological Psychiatry</i> , <b>2018</b> , 83, 337-346	7.9	44
163	Changes in proteome solubility indicate widespread proteostatic disruption in mouse models of neurodegenerative disease. <i>Acta Neuropathologica</i> , <b>2018</b> , 136, 919-938	14.3	19
162	Targeting the accomplice to thwart the culprit: a new target for the prevention of amyloid deposition. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 1734-1736	15.9	3
161	Short A $\beta$ peptides attenuate A $\beta$ 2 toxicity in vivo. <i>Journal of Experimental Medicine</i> , <b>2018</b> , 215, 283-301	16.6	33
160	Analysis of spinal and muscle pathology in transgenic mice overexpressing wild-type and ALS-linked mutant MATR3. <i>Acta Neuropathologica Communications</i> , <b>2018</b> , 6, 137	7.3	15
159	Loss of charge mutations in solvent exposed Lys residues of superoxide dismutase 1 do not induce inclusion formation in cultured cell models. <i>PLoS ONE</i> , <b>2018</b> , 13, e0206751	3.7	5
158	Differential induction of mutant SOD1 misfolding and aggregation by tau and $\beta$ synuclein pathology. <i>Molecular Neurodegeneration</i> , <b>2018</b> , 13, 23	19	2
157	Quantitative Comparison of Dense-Core Amyloid Plaque Accumulation in Amyloid- $\beta$ Protein Precursor Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , <b>2017</b> , 56, 743-761	4.3	22
156	Retraction Note: Transgenic mice overexpressing the ALS-linked protein Matrin 3 develop a profound muscle phenotype. <i>Acta Neuropathologica Communications</i> , <b>2017</b> , 5, 97	7.3	1
155	Relationship between mutant Cu/Zn superoxide dismutase 1 maturation and inclusion formation in cell models. <i>Journal of Neurochemistry</i> , <b>2017</b> , 140, 140-150	6	11
154	Generation of a new transgenic mouse model for assessment of tau gene silencing therapies. <i>Alzheimer's Research and Therapy</i> , <b>2016</b> , 8, 36	9	1

153	Transgenic mice overexpressing the ALS-linked protein Matrin 3 develop a profound muscle phenotype. <i>Acta Neuropathologica Communications</i> , <b>2016</b> , 4, 122	7.3	9
152	Prion-like propagation of mutant SOD1 misfolding and motor neuron disease spread along neuroanatomical pathways. <i>Acta Neuropathologica</i> , <b>2016</b> , 131, 103-14	14.3	96
151	Non-prion-type transmission in A53T $\beta$ -synuclein transgenic mice: a normal component of spinal homogenates from naïve non-transgenic mice induces robust $\beta$ -synuclein pathology. <i>Acta Neuropathologica</i> , <b>2016</b> , 131, 151-4	14.3	17
150	Heterogeneity of Matrin 3 in the developing and aging murine central nervous system. <i>Journal of Comparative Neurology</i> , <b>2016</b> , 524, 2740-52	3.4	11
149	Vulnerability of newly synthesized proteins to proteostasis stress. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 1892-901	5.3	18
148	C9orf72 BAC Mouse Model with Motor Deficits and Neurodegenerative Features of ALS/FTD. <i>Neuron</i> , <b>2016</b> , 90, 521-34	13.9	218
147	Sex-related dimorphism in dentate gyrus atrophy and behavioral phenotypes in an inducible tTa:APP $\Delta$ PS1 transgenic model of Alzheimer's disease. <i>Neurobiology of Disease</i> , <b>2016</b> , 96, 171-185	7.5	10
146	Distinct conformers of transmissible misfolded SOD1 distinguish human SOD1-FALS from other forms of familial and sporadic ALS. <i>Acta Neuropathologica</i> , <b>2016</b> , 132, 827-840	14.3	32
145	Behavioral abnormalities in APP $\Delta$ PS1dE9 mouse model of AD-like pathology: comparative analysis across multiple behavioral domains. <i>Neurobiology of Aging</i> , <b>2015</b> , 36, 2519-32	5.6	46
144	Widespread and efficient transduction of spinal cord and brain following neonatal AAV injection and potential disease modifying effect in ALS mice. <i>Molecular Therapy</i> , <b>2015</b> , 23, 53-62	11.7	35
143	Characterization of Protein Structural Changes in Living Cells Using Time-Lapsed FTIR Imaging. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6025-31	7.8	30
142	RAN Translation in Huntington Disease. <i>Neuron</i> , <b>2015</b> , 88, 667-77	13.9	205
141	Substantially elevating the levels of $\beta$ -crystallin in spinal motor neurons of mutant SOD1 mice does not significantly delay paralysis or attenuate mutant protein aggregation. <i>Journal of Neurochemistry</i> , <b>2015</b> , 133, 452-64	6	10
140	Murine A $\beta$ over-production produces diffuse and compact Alzheimer-type amyloid deposits. <i>Acta Neuropathologica Communications</i> , <b>2015</b> , 3, 72	7.3	34
139	Subcellular Localization of Matrin 3 Containing Mutations Associated with ALS and Distal Myopathy. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142144	3.7	35
138	Direct and indirect mechanisms for wild-type SOD1 to enhance the toxicity of mutant SOD1 in bigenic transgenic mice. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 1019-35	5.6	12
137	Regenerative medicine in Alzheimer's disease. <i>Translational Research</i> , <b>2014</b> , 163, 432-8	11	25
136	Experimental transmissibility of mutant SOD1 motor neuron disease. <i>Acta Neuropathologica</i> , <b>2014</b> , 128, 791-803	14.3	80

135	Conformational specificity of the C4F6 SOD1 antibody; low frequency of reactivity in sporadic ALS cases. <i>Acta Neuropathologica Communications</i> , <b>2014</b> , 2, 55	7.3	35
134	Intramuscular injection of $\beta$ -synuclein induces CNS $\beta$ -synuclein pathology and a rapid-onset motor phenotype in transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 10732-7	11.5	229
133	Experimental mutagenesis of huntingtin to map cleavage sites: different outcomes in cell and mouse models. <i>Journal of Huntingtons Disease</i> , <b>2014</b> , 3, 73-86	1.9	1
132	Analysis of mutant SOD1 electrophoretic mobility by Blue Native gel electrophoresis; evidence for soluble multimeric assemblies. <i>PLoS ONE</i> , <b>2014</b> , 9, e104583	3.7	5
131	Metal-deficient aggregates and diminished copper found in cells expressing SOD1 mutations that cause ALS. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 110	5.3	41
130	Gabriele Schilling (September 5, 1968-July 4, 2014). <i>Journal of Huntingtons Disease</i> , <b>2014</b> , 3, 225-7	1.9	1
129	Distinctive features of the D101N and D101G variants of superoxide dismutase 1; two mutations that produce rapidly progressing motor neuron disease. <i>Journal of Neurochemistry</i> , <b>2014</b> , 128, 305-14	6	16
128	Differences in memory development among C57BL/6NCrl, 129S2/SvPasCrl, and FVB/NCrl mice after delay and trace fear conditioning. <i>Comparative Medicine</i> , <b>2014</b> , 64, 4-12	1.6	9
127	Normal cognition in transgenic BRI2-A $\beta$ mice. <i>Molecular Neurodegeneration</i> , <b>2013</b> , 8, 15	19	57
126	Robust cytoplasmic accumulation of phosphorylated TDP-43 in transgenic models of tauopathy. <i>Acta Neuropathologica</i> , <b>2013</b> , 126, 39-50	14.3	20
125	Cytosolic proteins lose solubility as amyloid deposits in a transgenic mouse model of Alzheimer-type amyloidosis. <i>Human Molecular Genetics</i> , <b>2013</b> , 22, 2765-74	5.6	34
124	Features of wild-type human SOD1 limit interactions with misfolded aggregates of mouse G86R Sod1. <i>Molecular Neurodegeneration</i> , <b>2013</b> , 8, 46	19	11
123	Unbiased screen reveals ubiquilin-1 and -2 highly associated with huntingtin inclusions. <i>Brain Research</i> , <b>2013</b> , 1524, 62-73	3.7	29
122	Reversible pathologic and cognitive phenotypes in an inducible model of Alzheimer-amyloidosis. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 3765-79	6.6	39
121	Structural similarity of wild-type and ALS-mutant superoxide dismutase-1 fibrils using limited proteolysis and atomic force microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 10934-9	11.5	35
120	Capsid serotype and timing of injection determines AAV transduction in the neonatal mice brain. <i>PLoS ONE</i> , <b>2013</b> , 8, e67680	3.7	103
119	An analysis of interactions between fluorescently-tagged mutant and wild-type SOD1 in intracellular inclusions. <i>PLoS ONE</i> , <b>2013</b> , 8, e83981	3.7	7
118	Thinking laterally about neurodegenerative proteinopathies. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 1847-55	15.9	80

117	A novel variant of human superoxide dismutase 1 harboring amyotrophic lateral sclerosis-associated and experimental mutations in metal-binding residues and free cysteines lacks toxicity in vivo. <i>Journal of Neurochemistry</i> , <b>2012</b> , 121, 475-85	6	17
116	Reduction of low-density lipoprotein receptor-related protein (LRP1) in hippocampal neurons does not proportionately reduce, or otherwise alter, amyloid deposition in APP <sup>swe</sup> /PS1 <sup>dE9</sup> transgenic mice. <i>Alzheimer's Research and Therapy</i> , <b>2012</b> , 4, 12	9	15
115	A preclinical assessment of neural stem cells as delivery vehicles for anti-amyloid therapeutics. <i>PLoS ONE</i> , <b>2012</b> , 7, e34097	3.7	17
114	Abnormal SDS-PAGE migration of cytosolic proteins can identify domains and mechanisms that control surfactant binding. <i>Protein Science</i> , <b>2012</b> , 21, 1197-209	6.3	93
113	Role of disulfide cross-linking of mutant SOD1 in the formation of inclusion-body-like structures. <i>PLoS ONE</i> , <b>2012</b> , 7, e47838	3.7	21
112	Identification of proteins sensitive to thermal stress in human neuroblastoma and glioma cell lines. <i>PLoS ONE</i> , <b>2012</b> , 7, e49021	3.7	25
111	Analysis of proteolytic processes and enzymatic activities in the generation of huntingtin n-terminal fragments in an HEK293 cell model. <i>PLoS ONE</i> , <b>2012</b> , 7, e50750	3.7	10
110	Cellular fusion for gene delivery to SCA1 affected Purkinje neurons. <i>Molecular and Cellular Neurosciences</i> , <b>2011</b> , 47, 61-70	4.8	31
109	Passive (amyloid- $\beta$ ) immunotherapy attenuates monoaminergic axonal degeneration in the APP <sup>swe</sup> /PS1 <sup>dE9</sup> mice. <i>Journal of Alzheimer's Disease</i> , <b>2011</b> , 23, 271-9	4.3	12
108	Superoxide dismutase 1 encoding mutations linked to ALS adopts a spectrum of misfolded states. <i>Molecular Neurodegeneration</i> , <b>2011</b> , 6, 77	19	42
107	Transgenic mice expressing caspase-6-derived N-terminal fragments of mutant huntingtin develop neurologic abnormalities with predominant cytoplasmic inclusion pathology composed largely of a smaller proteolytic derivative. <i>Human Molecular Genetics</i> , <b>2011</b> , 20, 2770-82	5.6	35
106	Premature death and neurologic abnormalities in transgenic mice expressing a mutant huntingtin exon-2 fragment. <i>Human Molecular Genetics</i> , <b>2011</b> , 20, 1633-42	5.6	18
105	Copper and zinc metallation status of copper-zinc superoxide dismutase from amyotrophic lateral sclerosis transgenic mice. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 2795-806	5.4	98
104	An examination of alpha B-crystallin as a modifier of SOD1 aggregate pathology and toxicity in models of familial amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , <b>2010</b> , 113, 1092-100	6	18
103	Analysis of chaperone mRNA expression in the adult mouse brain by meta analysis of the Allen Brain Atlas. <i>PLoS ONE</i> , <b>2010</b> , 5, e13675	3.7	26
102	An examination of wild-type SOD1 in modulating the toxicity and aggregation of ALS-associated mutant SOD1. <i>Human Molecular Genetics</i> , <b>2010</b> , 19, 4774-89	5.6	55
101	Synphilin-1 attenuates neuronal degeneration in the A53T alpha-synuclein transgenic mouse model. <i>Human Molecular Genetics</i> , <b>2010</b> , 19, 2087-98	5.6	56
100	Aggregation modulating elements in mutant human superoxide dismutase 1. <i>Archives of Biochemistry and Biophysics</i> , <b>2010</b> , 503, 175-82	4.1	18

99	Partial depletion of CREB-binding protein reduces life expectancy in a mouse model of Huntington disease. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2010</b> , 69, 396-404	3.1	20
98	Copper-Zinc Superoxide Dismutase, Its Copper Chaperone, and Familial Amyotrophic Lateral Sclerosis <b>2010</b> , 381-401		2
97	Role of mutant SOD1 disulfide oxidation and aggregation in the pathogenesis of familial ALS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 7774-9	11.5	149
96	Immature copper-zinc superoxide dismutase and familial amyotrophic lateral sclerosis. <i>Experimental Biology and Medicine</i> , <b>2009</b> , 234, 1140-54	3.7	74
95	Variation in aggregation propensities among ALS-associated variants of SOD1: correlation to human disease. <i>Human Molecular Genetics</i> , <b>2009</b> , 18, 3217-26	5.6	173
94	Modulation of mutant superoxide dismutase 1 aggregation by co-expression of wild-type enzyme. <i>Journal of Neurochemistry</i> , <b>2009</b> , 108, 1009-18	6	41
93	Immunoreactivity of the phosphorylated axonal neurofilament H subunit (pNF-H) in blood of ALS model rodents and ALS patients: evaluation of blood pNF-H as a potential ALS biomarker. <i>Journal of Neurochemistry</i> , <b>2009</b> , 111, 1182-91	6	109
92	Amyloid precursor protein increases cortical neuron size in transgenic mice. <i>Neurobiology of Aging</i> , <b>2009</b> , 30, 1238-44	5.6	38
91	Differential regulation of small heat shock proteins in transgenic mouse models of neurodegenerative diseases. <i>Neurobiology of Aging</i> , <b>2008</b> , 29, 586-97	5.6	41
90	Detergent-insoluble aggregates associated with amyotrophic lateral sclerosis in transgenic mice contain primarily full-length, unmodified superoxide dismutase-1. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 8340-50	5.4	64
89	A limited role for disulfide cross-linking in the aggregation of mutant SOD1 linked to familial amyotrophic lateral sclerosis. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 13528-37	5.4	84
88	Amyloid pathology is associated with progressive monoaminergic neurodegeneration in a transgenic mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 13805-14	6.6	140
87	Limited clearance of pre-existing amyloid plaques after intracerebral injection of Abeta antibodies in two mouse models of Alzheimer disease. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2008</b> , 67, 30-40	3.1	17
86	Receptor-associated protein (RAP) plays a central role in modulating Abeta deposition in APP/PS1 transgenic mice. <i>PLoS ONE</i> , <b>2008</b> , 3, e3159	3.7	9
85	Messenger RNA oxidation occurs early in disease pathogenesis and promotes motor neuron degeneration in ALS. <i>PLoS ONE</i> , <b>2008</b> , 3, e2849	3.7	143
84	Rodent A beta modulates the solubility and distribution of amyloid deposits in transgenic mice. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 22707-20	5.4	86
83	Alzheimer's-type amyloidosis in transgenic mice impairs survival of newborn neurons derived from adult hippocampal neurogenesis. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 6771-80	6.6	185
82	N-terminal proteolysis of full-length mutant huntingtin in an inducible PC12 cell model of Huntington's disease. <i>Cell Cycle</i> , <b>2007</b> , 6, 2970-81	4.7	56

81	Disease-associated mutations at copper ligand histidine residues of superoxide dismutase 1 diminish the binding of copper and compromise dimer stability. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 345-52	5.4	41
80	Characterization of huntingtin pathologic fragments in human Huntington disease, transgenic mice, and cell models. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2007</b> , 66, 313-20	3.1	56
79	Investigation of RNA interference to suppress expression of full-length and fragment human huntingtin. <i>NeuroMolecular Medicine</i> , <b>2007</b> , 9, 145-155	4.6	
78	Biotinylated anti-A $\beta$ antibody as a tool to diagnose pre-clinical stages of Alzheimer's Disease (AD). <i>FASEB Journal</i> , <b>2007</b> , 21, A20	0.9	
77	Progressive phenotype and nuclear accumulation of an amino-terminal cleavage fragment in a transgenic mouse model with inducible expression of full-length mutant huntingtin. <i>Neurobiology of Disease</i> , <b>2006</b> , 21, 381-91	7.5	51
76	Papillomavirus-like particles are an effective platform for amyloid-beta immunization in rabbits and transgenic mice. <i>Journal of Immunology</i> , <b>2006</b> , 177, 2662-2670	5.3	43
75	Amyotrophic lateral sclerosis--are microglia killing motor neurons?. <i>New England Journal of Medicine</i> , <b>2006</b> , 355, 1611-3	59.2	22
74	Mapping superoxide dismutase 1 domains of non-native interaction: roles of intra- and intermolecular disulfide bonding in aggregation. <i>Journal of Neurochemistry</i> , <b>2006</b> , 96, 1277-88	6	70
73	Episodic-like memory deficits in the APPswe/PS1dE9 mouse model of Alzheimer's disease: relationships to beta-amyloid deposition and neurotransmitter abnormalities. <i>Neurobiology of Disease</i> , <b>2005</b> , 18, 602-17	7.5	309
72	Coincident thresholds of mutant protein for paralytic disease and protein aggregation caused by restrictively expressed superoxide dismutase cDNA. <i>Neurobiology of Disease</i> , <b>2005</b> , 20, 943-52	7.5	90
71	Effects of CAG repeat length, HTT protein length and protein context on cerebral metabolism measured using magnetic resonance spectroscopy in transgenic mouse models of Huntington's disease. <i>Journal of Neurochemistry</i> , <b>2005</b> , 95, 553-62	6	64
70	Selected genetically engineered models relevant to human neurodegenerative disease <b>2005</b> , 176-195		1
69	Persistent amyloidosis following suppression of A $\beta$ production in a transgenic model of Alzheimer disease. <i>PLoS Medicine</i> , <b>2005</b> , 2, e355	11.6	157
68	Somatodendritic accumulation of misfolded SOD1-L126Z in motor neurons mediates degeneration: alphaB-crystallin modulates aggregation. <i>Human Molecular Genetics</i> , <b>2005</b> , 14, 2335-47	5.6	105
67	Environmental enrichment mitigates cognitive deficits in a mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 5217-24	6.6	386
66	BACE1, a major determinant of selective vulnerability of the brain to amyloid-beta amyloidogenesis, is essential for cognitive, emotional, and synaptic functions. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 11693-709	6.6	436
65	Transgenic mouse models of neurodegenerative disease <b>2004</b> , 533-557		
64	Nuclear-targeting of mutant huntingtin fragments produces Huntington's disease-like phenotypes in transgenic mice. <i>Human Molecular Genetics</i> , <b>2004</b> , 13, 1599-610	5.6	85



63	APP processing and amyloid deposition in mice haplo-insufficient for presenilin 1. <i>Neurobiology of Aging</i> , <b>2004</b> , 25, 885-92	5.6	119
62	Mutant presenilins specifically elevate the levels of the 42 residue beta-amyloid peptide in vivo: evidence for augmentation of a 42-specific gamma secretase. <i>Human Molecular Genetics</i> , <b>2004</b> , 13, 159-70	5.6	1073
61	Environmental enrichment exacerbates amyloid plaque formation in a transgenic mouse model of Alzheimer disease. <i>Journal of Neuro pathology and Experimental Neurology</i> , <b>2003</b> , 62, 1220-7	3.1	165
60	Identifying new therapeutics for Huntington <sup>®</sup> disease. <i>Clinical Neuroscience Research</i> , <b>2003</b> , 3, 179-186		1
59	APP processing and synaptic function. <i>Neuron</i> , <b>2003</b> , 37, 925-37	13.9	1248
58	Normal cognitive behavior in two distinct congenic lines of transgenic mice hyperexpressing mutant APP SWE. <i>Neurobiology of Disease</i> , <b>2003</b> , 12, 194-211	7.5	66
57	Lipopolysaccharide-induced-neuroinflammation increases intracellular accumulation of amyloid precursor protein and amyloid beta peptide in APP <sup>swe</sup> transgenic mice. <i>Neurobiology of Disease</i> , <b>2003</b> , 14, 133-45	7.5	297
56	Copper-binding-site-null SOD1 causes ALS in transgenic mice: aggregates of non-native SOD1 delineate a common feature. <i>Human Molecular Genetics</i> , <b>2003</b> , 12, 2753-64	5.6	253
55	Abeta deposition is essential to AD neuropathology. <i>Journal of Alzheimer's Disease</i> , <b>2002</b> , 4, 133-8	4.3	6
54	Transgenic mouse models of neurodegenerative disease: opportunities for therapeutic development. <i>Current Neurology and Neuroscience Reports</i> , <b>2002</b> , 2, 457-64	6.6	44
53	Genetically engineered mouse models of neurodegenerative diseases. <i>Nature Neuroscience</i> , <b>2002</b> , 5, 633-9	25.5	190
52	Early phenotypes that presage late-onset neurodegenerative disease allow testing of modifiers in Hdh CAG knock-in mice. <i>Human Molecular Genetics</i> , <b>2002</b> , 11, 633-40	5.6	134
51	Polyglutamine and transcription: gene expression changes shared by DRPLA and Huntington <sup>®</sup> disease mouse models reveal context-independent effects. <i>Human Molecular Genetics</i> , <b>2002</b> , 11, 1927-37	5.6	160
50	Genetically engineered models of neurodegenerative diseases <b>2002</b> , 1841-1862		1
49	Rapid detection of protein aggregates in the brains of Alzheimer patients and transgenic mouse models of amyloidosis. <i>Alzheimer Disease and Associated Disorders</i> , <b>2002</b> , 16, 191-5	2.5	30
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47	High molecular weight complexes of mutant superoxide dismutase 1: age-dependent and tissue-specific accumulation. <i>Neurobiology of Disease</i> , <b>2002</b> , 9, 139-48	7.5	175
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45	Accumulation of proteolytic fragments of mutant presenilin 1 and accelerated amyloid deposition are co-regulated in transgenic mice. <i>Neurobiology of Aging</i> , <b>2002</b> , 23, 171-7	5.6	16
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43	Co-expression of multiple transgenes in mouse CNS: a comparison of strategies. <i>New Biotechnology</i> , <b>2001</b> , 17, 157-65		594
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41	Genetically engineered models relevant to neurodegenerative disorders: their value for understanding disease mechanisms and designing/testing experimental therapeutics. <i>Journal of Molecular Neuroscience</i> , <b>2001</b> , 17, 233-57	3.3	11
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39	beta-Amyloid peptide vaccination results in marked changes in serum and brain Abeta levels in APPswe/PS1DeltaE9 mice, as detected by SELDI-TOF-based ProteinChip technology. <i>DNA and Cell Biology</i> , <b>2001</b> , 20, 713-21	3.6	40
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37	Creatine increase survival and delays motor symptoms in a transgenic animal model of Huntington $\beta$ disease. <i>Neurobiology of Disease</i> , <b>2001</b> , 8, 479-91	7.5	237
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34	Decreased expression of striatal signaling genes in a mouse model of Huntington $\beta$ disease. <i>Human Molecular Genetics</i> , <b>2000</b> , 9, 1259-71	5.6	550
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32	Amyloid precursor proteins inhibit heme oxygenase activity and augment neurotoxicity in Alzheimer $\beta$ disease. <i>Neuron</i> , <b>2000</b> , 28, 461-73	13.9	152
31	SOD1 rescues cerebral endothelial dysfunction in mice overexpressing amyloid precursor protein. <i>Nature Neuroscience</i> , <b>1999</b> , 2, 157-61	25.5	337
30	Nuclear accumulation of truncated atrophin-1 fragments in a transgenic mouse model of DRPLA. <i>Neuron</i> , <b>1999</b> , 24, 275-86	13.9	158
29	Synaptic transmission and hippocampal long-term potentiation in transgenic mice expressing FAD-linked presenilin 1. <i>Neurobiology of Disease</i> , <b>1999</b> , 6, 56-62	7.5	102
28	Transgenic mouse models of Alzheimer $\beta$ disease and amyotrophic lateral sclerosis. <i>Brain Pathology</i> , <b>1998</b> , 8, 735-57	6	20

27	Effects of PS1 deficiency on membrane protein trafficking in neurons. <i>Neuron</i> , <b>1998</b> , 21, 1213-21	13.9	342
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25	Alzheimer $\beta$ disease: genetic studies and transgenic models. <i>Annual Review of Genetics</i> , <b>1998</b> , 32, 461-93	14.5	349
24	Stable association of presenilin derivatives and absence of presenilin interactions with APP. <i>Neurobiology of Disease</i> , <b>1998</b> , 4, 438-53	7.5	175
23	Axonal transport of mutant superoxide dismutase 1 and focal axonal abnormalities in the proximal axons of transgenic mice. <i>Neurobiology of Disease</i> , <b>1998</b> , 5, 27-35	7.5	92
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19	Accelerated amyloid deposition in the brains of transgenic mice coexpressing mutant presenilin 1 and amyloid precursor proteins. <i>Neuron</i> , <b>1997</b> , 19, 939-45	13.9	885
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17	Transgenic models of neurodegenerative diseases. <i>Current Opinion in Neurobiology</i> , <b>1996</b> , 6, 651-60	7.6	26
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14	Endoproteolysis of presenilin 1 and accumulation of processed derivatives in vivo. <i>Neuron</i> , <b>1996</b> , 17, 181-90	13.9	999
13	Transgenic and gene-targeting approaches to model disorders of motor neurons. <i>Seminars in Neuroscience</i> , <b>1996</b> , 8, 163-169		2
12	Inherited neurodegenerative diseases and transgenic models. <i>Brain Pathology</i> , <b>1996</b> , 6, 467-80	6	8
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