

# David R Borchelt

## List of Publications by Citations

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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	Familial Alzheimer's disease-linked presenilin 1 variants elevate Abeta1-42/1-40 ratio in vitro and in vivo. <i>Neuron</i> , <b>1996</b> , 17, 1005-13	13.9	1350
187	An adverse property of a familial ALS-linked SOD1 mutation causes motor neuron disease characterized by vacuolar degeneration of mitochondria. <i>Neuron</i> , <b>1995</b> , 14, 1105-16	13.9	1281
186	APP processing and synaptic function. <i>Neuron</i> , <b>2003</b> , 37, 925-37	13.9	1248
185	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
184	Endoproteolysis of presenilin 1 and accumulation of processed derivatives in vivo. <i>Neuron</i> , <b>1996</b> , 17, 181-90	13.9	999
183	BACE1 is the major beta-secretase for generation of Abeta peptides by neurons. <i>Nature Neuroscience</i> , <b>2001</b> , 4, 233-4	25.5	935
182	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
181	Co-expression of multiple transgenes in mouse CNS: a comparison of strategies. <i>New Biotechnology</i> , <b>2001</b> , 17, 157-65		594
180	Decreased expression of striatal signaling genes in a mouse model of Huntington's disease. <i>Human Molecular Genetics</i> , <b>2000</b> , 9, 1259-71	5.6	550
179	Age-related CNS disorder and early death in transgenic FVB/N mice overexpressing Alzheimer amyloid precursor proteins. <i>Neuron</i> , <b>1995</b> , 15, 1203-18	13.9	482
178	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
177	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
176	Protein topology of presenilin 1. <i>Neuron</i> , <b>1996</b> , 17, 1023-30	13.9	358
175	Alzheimer's disease: genetic studies and transgenic models. <i>Annual Review of Genetics</i> , <b>1998</b> , 32, 461-93	14.5	349
174	Effects of PS1 deficiency on membrane protein trafficking in neurons. <i>Neuron</i> , <b>1998</b> , 21, 1213-21	13.9	342
173	SOD1 rescues cerebral endothelial dysfunction in mice overexpressing amyloid precursor protein. <i>Nature Neuroscience</i> , <b>1999</b> , 2, 157-61	25.5	337
172	Episodic-like memory deficits in the APP <sup>swe</sup> /PS1 <sup>dE9</sup> 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

171	Lipopolysaccharide-induced-neuroinflammation increases intracellular accumulation of amyloid precursor protein and amyloid beta peptide in APPswe transgenic mice. <i>Neurobiology of Disease</i> , <b>2003</b> , 14, 133-45	7.5	297
170	A vector for expressing foreign genes in the brains and hearts of transgenic mice. <i>Genetic Analysis, Techniques and Applications</i> , <b>1996</b> , 13, 159-63		290
169	Evidence that levels of presenilins (PS1 and PS2) are coordinately regulated by competition for limiting cellular factors. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 28415-22	5.4	275
168	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
167	Creatine increase survival and delays motor symptoms in a transgenic animal model of Huntington's disease. <i>Neurobiology of Disease</i> , <b>2001</b> , 8, 479-91	7.5	237
166	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
165	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
164	Asparagine-linked glycosylation of the scrapie and cellular prion proteins. <i>Archives of Biochemistry and Biophysics</i> , <b>1989</b> , 274, 1-13	4.1	213
163	Fibrillar inclusions and motor neuron degeneration in transgenic mice expressing superoxide dismutase 1 with a disrupted copper-binding site. <i>Neurobiology of Disease</i> , <b>2002</b> , 10, 128-38	7.5	207
162	RAN Translation in Huntington Disease. <i>Neuron</i> , <b>2015</b> , 88, 667-77	13.9	205
161	Genetic neurodegenerative diseases: the human illness and transgenic models. <i>Science</i> , <b>1998</b> , 282, 1079-83	5.3	196
160	Genetically engineered mouse models of neurodegenerative diseases. <i>Nature Neuroscience</i> , <b>2002</b> , 5, 633-9	25.5	190
159	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
158	Endoproteolytic processing and stabilization of wild-type and mutant presenilin. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 24536-41	5.4	175
157	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
156	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
155	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
154	Environmental enrichment exacerbates amyloid plaque formation in a transgenic mouse model of Alzheimer disease. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2003</b> , 62, 1220-7	3.1	165

153	Polyglutamine and transcription: gene expression changes shared by DRPLA and Huntington <sup>h</sup> disease mouse models reveal context-independent effects. <i>Human Molecular Genetics</i> , <b>2002</b> , 11, 1927-37	5.6	160
152	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
151	Persistent amyloidosis following suppression of Abeta production in a transgenic model of Alzheimer disease. <i>PLoS Medicine</i> , <b>2005</b> , 2, e355	11.6	157
150	Amyloid precursor proteins inhibit heme oxygenase activity and augment neurotoxicity in Alzheimer <sup>h</sup> disease. <i>Neuron</i> , <b>2000</b> , 28, 461-73	13.9	152
149	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
148	Coenzyme Q10 and remacemide hydrochloride ameliorate motor deficits in a Huntington <sup>h</sup> disease transgenic mouse model. <i>Neuroscience Letters</i> , <b>2001</b> , 315, 149-53	3.3	143
147	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
146	Amyloid pathology is associated with progressive monoaminergic neurodegeneration in a transgenic mouse model of Alzheimer <sup>h</sup> disease. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 13805-14	6.6	140
145	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
144	Hyperaccumulation of FAD-linked presenilin 1 variants in vivo. <i>Nature Medicine</i> , <b>1997</b> , 3, 756-60	50.5	131
143	An Alzheimer <sup>h</sup> disease-linked PS1 variant rescues the developmental abnormalities of PS1-deficient embryos. <i>Neuron</i> , <b>1998</b> , 20, 603-9	13.9	128
142	Superoxide dismutase 1 subunits with mutations linked to familial amyotrophic lateral sclerosis do not affect wild-type subunit function. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 3234-8	5.4	124
141	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
140	Release of the cellular prion protein from cultured cells after loss of its glycoinositol phospholipid anchor. <i>Glycobiology</i> , <b>1993</b> , 3, 319-29	5.8	117
139	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
138	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
137	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
136	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

135	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
134	Cyclooxygenase (COX)-2 and cell cycle activity in a transgenic mouse model of Alzheimer's disease neuropathology. <i>Neurobiology of Aging</i> , <b>2002</b> , 23, 327-34	5.6	97
133	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
132	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
131	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
130	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
129	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
128	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
127	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
126	Experimental transmissibility of mutant SOD1 motor neuron disease. <i>Acta Neuropathologica</i> , <b>2014</b> , 128, 791-803	14.3	80
125	Thinking laterally about neurodegenerative proteinopathies. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 1847-55	15.9	80
124	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
123	Dichloroacetate exerts therapeutic effects in transgenic mouse models of Huntington's disease. <i>Annals of Neurology</i> , <b>2001</b> , 50, 112-7	9.4	72
122	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
121	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
120	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
119	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
118	Normal cognition in transgenic BRI2-A $\Delta$ mice. <i>Molecular Neurodegeneration</i> , <b>2013</b> , 8, 15	19	57

117	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
116	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
115	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
114	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
113	Enhanced synaptic potentiation in transgenic mice expressing presenilin 1 familial Alzheimer's disease mutation is normalized with a benzodiazepine. <i>Neurobiology of Disease</i> , <b>2000</b> , 7, 54-63	7.5	53
112	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
111	Behavioral abnormalities in APPSwe/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
110	Distinct behavioral and neuropathological abnormalities in transgenic mouse models of HD and DRPLA. <i>Neurobiology of Disease</i> , <b>2001</b> , 8, 405-18	7.5	46
109	Prion-like Spreading in Tauopathies. <i>Biological Psychiatry</i> , <b>2018</b> , 83, 337-346	7.9	44
108	The value of transgenic models for the study of neurodegenerative diseases. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 920, 179-91	6.5	44
107	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
106	Therapeutic approaches targeting Apolipoprotein E function in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , <b>2020</b> , 15, 8	19	43
105	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
104	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
103	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
102	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
101	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
100	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

99	beta-Amyloid peptide vaccination results in marked changes in serum and brain Aβ levels in APP <sup>swe</sup> /PS1 <sup>ΔE9</sup> mice, as detected by SELDI-TOF-based ProteinChip technology. <i>DNA and Cell Biology</i> , <b>2001</b> , 20, 713-21	3.6	40
98	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
97	Amyloid precursor protein increases cortical neuron size in transgenic mice. <i>Neurobiology of Aging</i> , <b>2009</b> , 30, 1238-44	5.6	38
96	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
95	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
94	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
93	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
92	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
91	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
90	Murine Aβ <sub>over</sub> -production produces diffuse and compact Alzheimer-type amyloid deposits. <i>Acta Neuropathologica Communications</i> , <b>2015</b> , 3, 72	7.3	34
89	Motor neuron disease caused by mutations in superoxide dismutase 1. <i>Current Opinion in Neurology</i> , <b>1995</b> , 8, 294-301	7.1	33
88	Short Aβ peptides attenuate Aβ <sub>2</sub> toxicity in vivo. <i>Journal of Experimental Medicine</i> , <b>2018</b> , 215, 283-301	16.6	33
87	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
86	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
85	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
84	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
83	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
82	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

81	Transgenic models of neurodegenerative diseases. <i>Current Opinion in Neurobiology</i> , <b>1996</b> , 6, 651-60	7.6	26
80	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
79	Regenerative medicine in Alzheimer's disease. <i>Translational Research</i> , <b>2014</b> , 163, 432-8	11	25
78	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
77	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
76	Amyotrophic lateral sclerosis--are microglia killing motor neurons?. <i>New England Journal of Medicine</i> , <b>2006</b> , 355, 1611-3	59.2	22
75	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
74	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
73	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
72	Transgenic mouse models of Alzheimer's disease and amyotrophic lateral sclerosis. <i>Brain Pathology</i> , <b>1998</b> , 8, 735-57	6	20
71	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
70	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
69	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
68	PMP22 Regulates Cholesterol Trafficking and ABCA1-Mediated Cholesterol Efflux. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 5404-5418	6.6	18
67	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
66	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
65	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
64	Vulnerability of newly synthesized proteins to proteostasis stress. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 1892-901	5.3	18



63	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
62	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
61	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
60	Limited clearance of pre-existing amyloid plaques after intracerebral injection of A $\beta$ 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
59	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
58	A $\beta$ deposition does not cause the aggregation of endogenous tau in transgenic mice. <i>Alzheimer Disease and Associated Disorders</i> , <b>2002</b> , 16, 196-201	2.5	16
57	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
56	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
55	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
54	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
53	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
52	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
51	Loss of functional prion protein: a role in prion disorders?. <i>Chemistry and Biology</i> , <b>1996</b> , 3, 619-21		12
50	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
49	Reactive astrocytes as treatment targets in Alzheimer's disease-Systematic review of studies using the APP <sup>swe</sup> PS1 <sup>dE9</sup> mouse model. <i>Glia</i> , <b>2021</b> , 69, 1852-1881	9	12
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41	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
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31	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
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28	Subcellular diversion of cholesterol by gain- and loss-of-function mutations in PMP22. <i>Glia</i> , <b>2020</b> , 68, 2300-2315	9	4

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