Glenn C Telling

List of Publications by Citations

111 papers	5,249 citations	37 h-index	71 g-index
113 ext. papers	5,878 ext. citations	9.8 avg, IF	5.21 L-index

#	Paper	IF	Citations
111	Prion propagation in mice expressing human and chimeric PrP transgenes implicates the interaction of cellular PrP with another protein. *Cell*, **1995**, 83, 79-90	56.2	717
110	Infectious prions in the saliva and blood of deer with chronic wasting disease. *Science*, **2006**, 314, 133-6	33.3	376
109	Detection of CWD prions in urine and saliva of deer by transgenic mouse bioassay. *PLoS ONE*, **2009**, 4, e4848	3.7	170
108	Prion strain mutation determined by prion protein conformational compatibility and primary structure. *Science*, **2010**, 328, 1154-8	33.3	168
107	Prion protein conformation in a patient with sporadic fatal insomnia. *New England Journal of Medicine*, **1999**, 340, 1630-8	59.2	162
106	Transmission of prions from mule deer and elk with chronic wasting disease to transgenic mice expressing cervid PrP. *Journal of Virology*, **2004**, 78, 13345-50	6.6	151
105	Prions in skeletal muscles of deer with chronic wasting disease. *Science*, **2006**, 311, 1117	33.3	150
104	Immunodetection of disease-associated mutant PrP, which accelerates disease in GSS transgenic mice. *EMBO Journal*, **2005**, 24, 2472-80	13	121
103	Prions in skeletal muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 3812-7	11.5	120
102	Release of the cellular prion protein from cultured cells after loss of its glycoinositol phospholipid anchor. *Glycobiology*, **1993**, 3, 319-29	5.8	117
101	Abbreviated incubation times for human prions in mice expressing a chimeric mouse-human prion protein transgene. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 4784-9	11.5	113
100	Heritable disorder resembling neuronal storage disease in mice expressing prion protein with deletion of an alpha-helix. *Nature Medicine*, **1997**, 3, 750-5	50.5	112
99	Accelerated high fidelity prion amplification within and across prion species barriers. *PLoS Pathogens*, **2008**, 4, e1000139	7.6	108
98	Calpain-dependent endoproteolytic cleavage of PrPSc modulates scrapie prion propagation. *Journal of Biological Chemistry*, **2004**, 279, 21948-56	5.4	102
97	Chronic wasting disease prions in elk antler velvet. *Emerging Infectious Diseases*, **2009**, 15, 696-703	10.2	99
96	Detection of chronic wasting disease prions in salivary, urinary, and intestinal tissues of deer: potential mechanisms of prion shedding and transmission. *Journal of Virology*, **2011**, 85, 6309-18	6.6	97
95	Motif-grafted antibodies containing the replicative interface of cellular PrP are specific for PrPSc. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 10404-9	11.5	95

94	Detection of sub-clinical CWD infection in conventional test-negative deer long after oral exposure to urine and feces from CWD+ deer. *PLoS ONE*, **2009**, 4, e7990	3.7	92
93	Insoluble wild-type and protease-resistant mutant prion protein in brains of patients with inherited prion disease. *Nature Medicine*, **1996**, 2, 59-64	50.5	91
92	Generation of a new form of human PrP(Sc) in vitro by interspecies transmission from cervid prions. *Journal of Biological Chemistry*, **2011**, 286, 7490-5	5.4	89
91	Detection of protease-resistant cervid prion protein in water from a CWD-endemic area. *Prion*, **2009**, 3, 171-83	2.3	79
90	Efficient in vitro amplification of chronic wasting disease PrPRES. *Journal of Virology*, **2007**, 81, 9605-8	6.6	79
89	Reply to Kascsak: Definition of the PrP 3F4 Epitope Revisited. *Journal of Biological Chemistry*, **2010**, 285, le6	5.4	78
88	The elk PRNP codon 132 polymorphism controls cervid and scrapie prion propagation. *Journal of General Virology*, **2008**, 89, 598-608	4.9	74
87	Grass plants bind, retain, uptake, and transport infectious prions. *Cell Reports*, **2015**, 11, 1168-75	10.6	70
86	B cells and platelets harbor prion infectivity in the blood of deer infected with chronic wasting disease. *Journal of Virology*, **2010**, 84, 5097-107	6.6	68
85	Trans-species amplification of PrP(CWD) and correlation with rigid loop 170N. *Virology*, **2009**, 387, 235-43	3.6	67
84	Small protease sensitive oligomers of PrPSc in distinct human prions determine conversion rate of PrP(C). *PLoS Pathogens*, **2012**, 8, e1002835	7.6	65
83	In vitro strain adaptation of CWD prions by serial protein misfolding cyclic amplification. *Virology*, **2008**, 382, 267-76	3.6	62
82	Cell-based quantification of chronic wasting disease prions. *Journal of Virology*, **2010**, 84, 8322-6	6.6	59
81	Detection of PrPCWD in feces from naturally exposed Rocky Mountain elk (Cervus elaphus nelsoni) using protein misfolding cyclic amplification. *Journal of Wildlife Diseases*, **2012**, 48, 425-34	1.3	53
80	Prion disease tempo determined by host-dependent substrate reduction. *Journal of Clinical Investigation*, **2014**, 124, 847-58	15.9	51
79	PrP conformational transitions alter species preference of a PrP-specific antibody. *Journal of Biological Chemistry*, **2010**, 285, 13874-84	5.4	49
78	Quinacrine promotes replication and conformational mutation of chronic wasting disease prions. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6028-33	11.5	42
77	Aerosol and nasal transmission of chronic wasting disease in cervidized mice. *Journal of General Virology*, **2010**, 91, 1651-8	4.9	42

76	Motor behavioral and neuropathological deficits in mice deficient for normal prion protein expression. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2007**, 1772, 645-53	6.9	41
75	Co-existence of distinct prion types enables conformational evolution of human PrPSc by competitive selection. *Journal of Biological Chemistry*, **2013**, 288, 29846-61	5.4	39
74	Insights into Chronic Wasting Disease and Bovine Spongiform Encephalopathy Species Barriers by Use of Real-Time Conversion. *Journal of Virology*, **2015**, 89, 9524-31	6.6	35
73	Minor oral lesions facilitate transmission of chronic wasting disease. *Journal of Virology*, **2011**, 85, 1396-9	6.6	34
72	Structural effects of PrP polymorphisms on intra- and interspecies prion transmission. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11169-74	11.5	32
71	Prion replication without host adaptation during interspecies transmissions. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1141-1146	11.5	31
70	Incunabular immunological events in prion trafficking. *Scientific Reports*, **2012**, 2, 440	4.9	31
69	Intranasal inoculation of white-tailed deer (Odocoileus virginianus) with lyophilized chronic wasting disease prion particulate complexed to montmorillonite clay. *PLoS ONE*, **2013**, 8, e62455	3.7	31
68	Chronic wasting disease: an evolving prion disease of cervids. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2018**, 153, 135-151	3	29
67	Environmentally-relevant forms of the prion protein. *Environmental Science & Technology*, **2008**, 42, 6573-9	10.3	29
66	Prion diseases of humans and animals. *Seminars in Virology*, **1996**, 7, 159-173		29
65	Enhancement of protein misfolding cyclic amplification by using concentrated cellular prion protein source. *Biochemical and Biophysical Research Communications*, **2009**, 388, 306-10	3.4	27
64	Genetic depletion of complement receptors CD21/35 prevents terminal prion disease in a mouse model of chronic wasting disease. *Journal of Immunology*, **2012**, 189, 4520-7	5.3	27
63	Studies in bank voles reveal strain differences between chronic wasting disease prions from Norway and North America. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 31417-31426	11.5	27
62	Primary structural differences at residue 226 of deer and elk PrP dictate selection of distinct CWD prion strains in gene-targeted mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 12478-12487	11.5	26
61	Alteration of the chronic wasting disease species barrier by in vitro prion amplification. *Journal of Virology*, **2011**, 85, 8528-37	6.6	25
60	Characterization of conformation-dependent prion protein epitopes. *Journal of Biological Chemistry* , **2012**, 287, 37219-32	5.4	24
59	Sensitivity of protein misfolding cyclic amplification versus immunohistochemistry in ante-mortem detection of chronic wasting disease. *Journal of General Virology*, **2012**, 93, 1141-1150	4.9	24

58	Dissociation of prion protein amyloid seeding from transmission of a spongiform encephalopathy. *Journal of Virology*, **2013**, 87, 12349-56	6.6	22
57	Transgenic mouse models and prion strains. *Topics in Current Chemistry*, **2011**, 305, 79-99		22
56	In vitro amplification of misfolded prion protein using lysate of cultured cells. *PLoS ONE*, **2011**, 6, e18047	3.7	21
55	Chronic wasting disease (CWD) in cervids. *EFSA Journal*, **2017**, 15, e04667	2.3	19
54	Destabilizing polymorphism in cervid prion protein hydrophobic core determines prion conformation and conversion efficiency. *PLoS Pathogens*, **2017**, 13, e1006553	7.6	19
53	Brain injury-induced proteolysis is reduced in a novel calpastatin-overexpressing transgenic mouse. *Journal of Neurochemistry*, **2013**, 125, 909-20	6	19
52	Complement protein C3 exacerbates prion disease in a mouse model of chronic wasting disease. *International Immunology*, **2013**, 25, 697-702	4.9	19
51	Chronic wasting disease prion trafficking via the autonomic nervous system. *American Journal of Pathology*, **2011**, 179, 1319-28	5.8	19
50	GFP-tagged PrP supports compromised prion replication in transgenic mice. *Biochemical and Biophysical Research Communications*, **2006**, 340, 894-900	3.4	19
49	Molecular Mechanisms of Chronic Wasting Disease Prion Propagation. *Cold Spring Harbor Perspectives in Medicine*, **2018**, 8,	5.4	18
48	Epigenetic dominance of prion conformers. *PLoS Pathogens*, **2013**, 9, e1003692	7.6	18
47	Transgenic mouse models of prion diseases. *Methods in Molecular Biology*, **2008**, 459, 249-63	1.4	18
46	Detection of prion protein in the cerebrospinal fluid of elk (Cervus canadensis nelsoni) with chronic wasting disease using protein misfolding cyclic amplification. *Journal of Veterinary Diagnostic Investigation*, **2012**, 24, 746-9	1.5	16
45	PrPC expression and prion seeding activity in the alimentary tract and lymphoid tissue of deer. *PLoS ONE*, **2017**, 12, e0183927	3.7	13
44	Pathogenesis of chronic wasting disease in cervidized transgenic mice. *American Journal of Pathology*, **2010**, 176, 2785-97	5.8	13
43	In Vitro detection of Chronic Wasting Disease (CWD) prions in semen and reproductive tissues of white tailed deer bucks (Odocoileus virginianus). *PLoS ONE*, **2019**, 14, e0226560	3.7	13
42	Prion disease is accelerated in mice lacking stress-induced heat shock protein 70 (HSP70). *Journal of Biological Chemistry*, **2019**, 294, 13619-13628	5.4	12
41	Role of prion protein glycosylation in replication of human prions by protein misfolding cyclic amplification. *Laboratory Investigation*, **2019**, 99, 1741-1748	5.9	12

40	Unaltered prion protein expression in Alzheimer disease patients. *Prion*, **2011**, 5, 109-16	2.3	12
39	N-terminally tagged prion protein supports prion propagation in transgenic mice. *Protein Science*, **1997**, 6, 825-33	6.3	12
38	Mitigation of prion infectivity and conversion capacity by a simulated natural process--repeated cycles of drying and wetting. *PLoS Pathogens*, **2015**, 11, e1004638	7.6	11
37	Dehydration of Prions on Environmentally Relevant Surfaces Protects Them from Inactivation by Freezing and Thawing. *Journal of Virology*, **2018**, 92,	6.6	11
36	Insights into Mechanisms of Transmission and Pathogenesis from Transgenic Mouse Models of Prion Diseases. *Methods in Molecular Biology*, **2017**, 1658, 219-252	1.4	11
35	Scientific opinion on chronic wasting disease (II). *EFSA Journal*, **2018**, 16, e05132	2.3	11
34	The cellular prion protein promotes olfactory sensory neuron survival and axon targeting during adult neurogenesis. *Developmental Biology*, **2018**, 438, 23-32	3.1	10
33	Assessing the susceptibility of transgenic mice overexpressing deer prion protein to bovine spongiform encephalopathy. *Journal of Virology*, **2014**, 88, 1830-3	6.6	10
32	Clay Components in Soil Dictate Environmental Stability and Bioavailability of Cervid Prions in Mice. *Frontiers in Microbiology*, **2016**, 7, 1885	5.7	10
31	Application of PMCA to screen for prion infection in a human cell line used to produce biological therapeutics. *Scientific Reports*, **2019**, 9, 4847	4.9	9
30	Nucleic acid-free mutation of prion strains. *Prion*, **2010**, 4, 252-5	2.3	9
29	Complement Regulatory Protein Factor H Is a Soluble Prion Receptor That Potentiates Peripheral Prion Pathogenesis. *Journal of Immunology*, **2017**, 199, 3821-3827	5.3	8
28	Incomplete glycosylation during prion infection unmasks a prion protein epitope that facilitates prion detection and strain discrimination. *Journal of Biological Chemistry*, **2020**, 295, 10420-10433	5.4	8
27	Comparative analysis of prions in nervous and lymphoid tissues of chronic wasting disease-infected cervids. *Journal of General Virology*, **2018**, 99, 753-758	4.9	8
26	North American and Norwegian Chronic Wasting Disease prions exhibit different potential for interspecies transmission and zoonotic risk. *Journal of Infectious Diseases*, **2021**,	7	8
25	Effect of poly-L-arginine in inhibiting scrapie prion protein of cultured cells. *Molecular and Cellular Biochemistry*, **2017**, 428, 57-66	4.2	7
24	Prion protein expression and functional importance in skeletal muscle. *Antioxidants and Redox Signaling*, **2011**, 15, 2465-75	8.4	7
23	The importance of prions. *PLoS Pathogens*, **2013**, 9, e1003090	7.6	7

22	Adaptive selection of a prion strain conformer corresponding to established North American CWD during propagation of novel emergent Norwegian strains in mice expressing elk or deer prion protein. *PLoS Pathogens*, **2021**, 17, e1009748	7.6	6
21	The mechanism of prion strain propagation. *Genome Biology*, **2004**, 5, 222	18.3	5
20	Chronic wasting disease prion infection of differentiated neurospheres. *Prion*, **2017**, 11, 277-283	2.3	4
19	Prions and the prion disorders. *Mammalian Genome*, **1998**, 9, 497-502	3.2	4
18	Anchors away--of plaques and pathology in prion disease. *New England Journal of Medicine*, **2005**, 353, 1177-9	59.2	3
17	Calpastatin Overexpression Protects against Excitotoxic Hippocampal Injury and Traumatic Spinal Cord Injury. *Journal of Neurotrauma*, **2020**, 37, 2268-2276	5.4	3
16	Unique Structural Features of Mule Deer Prion Protein Provide Insights into Chronic Wasting Disease. *ACS Omega*, **2019**, 4, 19913-19924	3.9	3
15	Chronic Wasting Disease and the Development of Research Models **2013**, 45-57		3
14	Breakthroughs in antemortem diagnosis of neurodegenerative diseases. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22894-22896	11.5	2
13	Protein-based PCR for prion diseases?. *Nature Medicine*, **2001**, 7, 778-9	50.5	2
12	The cellular prion protein promotes neuronal regeneration after acute nasotoxic injury. *Prion*, **2020**, 14, 31-41	2.3	2
11	Study of prion types questions classification system. *Lancet Neurology, The*, **2005**, 4, 788-9	24.1	1
10	Properties of the cellular prion protein expressed in Xenopus oocytes. *NeuroReport*, **2002**, 13, 1229-33	1.7	1
9	Neurodegeneration: Evolved protection against human prions. *Nature*, **2015**, 522, 423-4	50.4	0
8	Emerging mammalian prions: chronic wasting disease. *Food Safety Assurance and Veterinary Public Health*, **2013**, 303-324	0.5	
7	Transgenic studies of prion diseases. *Methods in Molecular Medicine*, **2001**, 59, 111-27		
6	Prion Diseases of Humans and Animals **2000**, 593-619		
5	Transgenetic Models of Prion Diseases **2004**, 113-127		

4	Properties of the Prion Proteins in Creutzfeldt Jakob Disease Patients Heterozygous for the E200K Mutation **1998**, 291-295	
3	Transgenic Mouse Models of Prion Diseases. *Neuromethods*, **2017**, 269-301	0.4
2	Dual function of plasmin(ogen) system in PrPSc propagation in vitro. *FASEB Journal*, **2009**, 23, 851.6	0.9
1	Tissue-Specific Biochemical Differences Between Chronic Wasting Disease Prions Isolated From Free-Ranging White-Tailed Deer (Odocoileus virginianus).. *Journal of Biological Chemistry*, **2022**, 101834	5.4