

Hermann M Schtzi

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128 papers	11,039 citations	34 h-index	104 g-index
135 ext. papers	12,159 ext. citations	6.1 avg, IF	5.21 L-index

#	Paper	IF	Citations
128	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
127	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	10.2	2783
126	Analysis of 27 mammalian and 9 avian PrPs reveals high conservation of flexible regions of the prion protein. <i>Journal of Molecular Biology</i> , 1999 , 289, 1163-78	6.5	339
125	Prion protein gene variation among primates. <i>Journal of Molecular Biology</i> , 1995 , 245, 362-74	6.5	276
124	The anticancer drug imatinib induces cellular autophagy. <i>Leukemia</i> , 2007 , 21, 936-42	10.7	189
123	Autophagy induction by trehalose counteracts cellular prion infection. <i>Autophagy</i> , 2009 , 5, 361-9	10.2	178
122	In vitro and in vivo neurotoxicity of prion protein oligomers. <i>PLoS Pathogens</i> , 2007 , 3, e125	7.6	178
121	PrPC directly interacts with proteins involved in signaling pathways. <i>Journal of Biological Chemistry</i> , 2001 , 276, 44604-12	5.4	164
120	Lithium induces clearance of protease resistant prion protein in prion-infected cells by induction of autophagy. <i>Journal of Neurochemistry</i> , 2009 , 109, 25-34	6	155
119	Individuals with antibodies against hepatitis B core antigen as the only serological marker for hepatitis B infection: high percentage of carriers of hepatitis B and C virus. <i>Journal of Hepatology</i> , 1995 , 23, 14-20	13.4	142
118	Intracellular re-routing of prion protein prevents propagation of PrP(Sc) and delays onset of prion disease. <i>EMBO Journal</i> , 2001 , 20, 3957-66	13	134
117	Prion-protein-specific aptamer reduces PrPSc formation. <i>ChemBioChem</i> , 2002 , 3, 717-25	3.8	128
116	The tyrosine kinase inhibitor STI571 induces cellular clearance of PrPSc in prion-infected cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 41918-27	5.4	102
115	Severe acute respiratory syndrome coronavirus replication is severely impaired by MG132 due to proteasome-independent inhibition of M-calpain. <i>Journal of Virology</i> , 2012 , 86, 10112-22	6.6	101
114	Humoral immune response to native eukaryotic prion protein correlates with anti-prion protection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101 Suppl 2, 14670-5	11.5	96
113	Polyclonal anti-PrP auto-antibodies induced with dimeric PrP interfere efficiently with PrPSc propagation in prion-infected cells. <i>Journal of Biological Chemistry</i> , 2003 , 278, 18524-31	5.4	90
112	Essential role of the prion protein N terminus in subcellular trafficking and half-life of cellular prion protein. <i>Journal of Biological Chemistry</i> , 2003 , 278, 3726-34	5.4	87

111	Autophagy, prion infection and their mutual interactions. <i>Current Issues in Molecular Biology</i> , 2010 , 12, 87-97	2.9	78
110	Autophagy regulates exosomal release of prions in neuronal cells. <i>Journal of Biological Chemistry</i> , 2018 , 293, 8956-8968	5.4	65
109	Early detection of chronic wasting disease prions in urine of pre-symptomatic deer by real-time quaking-induced conversion assay. <i>Prion</i> , 2013 , 7, 253-8	2.3	59
108	Chronic wasting disease. <i>Topics in Current Chemistry</i> , 2011 , 305, 51-77		58
107	Glycosylation deficiency at either one of the two glycan attachment sites of cellular prion protein preserves susceptibility to bovine spongiform encephalopathy and scrapie infections. <i>Journal of Biological Chemistry</i> , 2004 , 279, 53306-16	5.4	56
106	The yeast Sup35NM domain propagates as a prion in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 462-7	11.5	54
105	The prion protein requires cholesterol for cell surface localization. <i>Molecular and Cellular Neurosciences</i> , 2006 , 31, 346-53	4.8	54
104	Proteasomal dysfunction and endoplasmic reticulum stress enhance trafficking of prion protein aggregates through the secretory pathway and increase accumulation of pathologic prion protein. <i>Journal of Biological Chemistry</i> , 2011 , 286, 33942-53	5.4	48
103	Endemic chronic wasting disease causes mule deer population decline in Wyoming. <i>PLoS ONE</i> , 2017 , 12, e0186512	3.7	48
102	Analysis of non-infectious HIV particles produced in presence of HIV proteinase inhibitor. <i>Archives of Virology</i> , 1991 , 120, 71-81	2.6	46
101	Cell line dependent RNA expression profiles of prion-infected mouse neuronal cells. <i>Journal of Molecular Biology</i> , 2005 , 349, 487-500	6.5	44
100	Is codon 129 of prion protein polymorphic in human beings but not in animals?. <i>Lancet, The</i> , 1997 , 349, 1603-4	4.0	42
99	Polylactide-coglycolide microspheres co-encapsulating recombinant tandem prion protein with CpG-oligonucleotide break self-tolerance to prion protein in wild-type mice and induce CD4 and CD8 T cell responses. <i>Journal of Immunology</i> , 2007 , 179, 2797-807	5.3	42
98	Quantification of hepatitis B virus DNA over a wide range from serum for studying viral replicative activity in response to treatment and in recurrent infection. <i>Hepatology</i> , 1995 , 21, 1492-1499	11.2	42
97	Chronic wasting disease: Emerging prions and their potential risk. <i>PLoS Pathogens</i> , 2017 , 13, e1006619	7.6	40
96	Cell-to-cell propagation of infectious cytosolic protein aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5951-6	11.5	38
95	The tyrosine kinase inhibitor imatinib mesylate delays prion neuroinvasion by inhibiting prion propagation in the periphery. <i>Journal of NeuroVirology</i> , 2007 , 13, 328-37	3.9	34
94	Prion-like propagation of cytosolic protein aggregates: insights from cell culture models. <i>Prion</i> , 2009 , 3, 206-12	2.3	33

93	Prion diseases: from molecular biology to intervention strategies. <i>ChemBioChem</i> , 2003 , 4, 1268-84	3.8	33
92	Inhibition of cholesterol recycling impairs cellular PrP(Sc) propagation. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 3979-91	10.3	32
91	Vaccination with prion peptide-displaying papillomavirus-like particles induces autoantibodies to normal prion protein that interfere with pathologic prion protein production in infected cells. <i>FEBS Journal</i> , 2007 , 274, 1747-58	5.7	32
90	Cell type-specific cleavage of nucleocapsid protein by effector caspases during SARS coronavirus infection. <i>Journal of Molecular Biology</i> , 2008 , 376, 23-34	6.5	31
89	Scrapie infection of prion protein-deficient cell line upon ectopic expression of mutant prion proteins. <i>Journal of Biological Chemistry</i> , 2007 , 282, 18702-10	5.4	31
88	Charged bipolar suramin derivatives induce aggregation of the prion protein at the cell surface and inhibit PrPSc replication. <i>Journal of Cell Science</i> , 2005 , 118, 4959-73	5.3	31
87	Concomitant administration of a virosome-adjuvanted hepatitis a vaccine with routine childhood vaccines at age twelve to fifteen months: a randomized controlled trial. <i>Pediatric Infectious Disease Journal</i> , 2007 , 26, 787-93	3.4	29
86	Prion-induced activation of cholesterologenic gene expression by Srebp2 in neuronal cells. <i>Journal of Biological Chemistry</i> , 2009 , 284, 31260-9	5.4	28
85	Detection of PrP(Sc) in peripheral tissues of clinically affected cattle after oral challenge with bovine spongiform encephalopathy. <i>Journal of General Virology</i> , 2012 , 93, 2740-2748	4.9	27
84	Molecular basis of cerebral neurodegeneration in prion diseases. <i>FEBS Journal</i> , 2007 , 274, 606-11	5.7	27
83	Aptamers against prion proteins and prions. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 2445-55	10.3	26
82	Prominent stress response of Purkinje cells in Creutzfeldt-Jakob disease. <i>Neurobiology of Disease</i> , 2001 , 8, 881-9	7.5	26
81	Ultra-sensitive detection of prion protein fibrils by flow cytometry in blood from cattle affected with bovine spongiform encephalopathy. <i>BMC Biotechnology</i> , 2005 , 5, 26	3.5	25
80	Prion infection impairs lysosomal degradation capacity by interfering with rab7 membrane attachment in neuronal cells. <i>Scientific Reports</i> , 2016 , 6, 21658	4.9	23
79	Toxic effects of intracerebral PrP antibody administration during the course of BSE infection in mice. <i>Prion</i> , 2007 , 1, 198-206	2.3	23
78	Evaluation of modified vaccinia virus Ankara as an alternative vaccine against smallpox in chronically HIV type 1-infected individuals undergoing HAART. <i>AIDS Research and Human Retroviruses</i> , 2007 , 23, 782-93	1.6	23
77	The novel sorting nexin SNX33 interferes with cellular PrP formation by modulation of PrP shedding. <i>Traffic</i> , 2008 , 9, 1116-29	5.7	22
76	Prion strains depend on different endocytic routes for productive infection. <i>Scientific Reports</i> , 2017 , 7, 6923	4.9	21

75	The celecoxib derivatives AR-12 and AR-14 induce autophagy and clear prion-infected cells from prions. <i>Scientific Reports</i> , 2017 , 7, 17565	4.9	21
74	A prime-boost vaccination protocol optimizes immune responses against the nucleocapsid protein of the SARS coronavirus. <i>Vaccine</i> , 2008 , 26, 6678-84	4.1	20
73	The first B/G intersubtype recombinant form of human immunodeficiency virus type 1 (HIV-1) identified in Germany was undetected or underquantitated by some commercial viral load assays. <i>Journal of Medical Virology</i> , 2006 , 78, 311-7	19.7	20
72	LRP/LR Antibody Mediated Rescuing of Amyloid- β -Induced Cytotoxicity is Dependent on PrP ^C in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016 , 49, 645-57	4.3	19
71	Peptide aptamers expressed in the secretory pathway interfere with cellular PrP ^{Sc} formation. <i>Journal of Molecular Biology</i> , 2007 , 371, 362-73	6.5	19
70	From high-throughput cell culture screening to mouse model: identification of new inhibitor classes against prion disease. <i>ChemMedChem</i> , 2011 , 6, 1928-37	3.7	18
69	Therapy in prion diseases: from molecular and cellular biology to therapeutic targets. <i>Infectious Disorders - Drug Targets</i> , 2009 , 9, 3-14	1.1	18
68	CpG and LPS can interfere negatively with prion clearance in macrophage and microglial cells. <i>FEBS Journal</i> , 2007 , 274, 5834-44	5.7	18
67	Recognition of luminal prion protein aggregates by post-ER quality control mechanisms is mediated by the preoctarepeat region of PrP. <i>Traffic</i> , 2004 , 5, 300-13	5.7	18
66	Autophagy pathways in the treatment of prion diseases. <i>Current Opinion in Pharmacology</i> , 2019 , 44, 46-53	5.1	17
65	Stability and conformational properties of doppel, a prion-like protein, and its single-disulphide mutant. <i>Biochemical Journal</i> , 2003 , 373, 485-94	3.8	17
64	Neurotrophic factors: ready to go?. <i>Trends in Neurosciences</i> , 1995 , 18, 463-4	13.3	17
63	Phylogenetic characterization of simian T lymphotropic virus type I (STLV-I) from the Ethiopian sacred baboon (<i>Papio hamadryas</i>). <i>AIDS Research and Human Retroviruses</i> , 1996 , 12, 255-8	1.6	16
62	Prion protein/protein interactions: fusion with yeast Sup35p-NM modulates cytosolic PrP aggregation in mammalian cells. <i>FASEB Journal</i> , 2008 , 22, 762-73	0.9	15
61	Vaccination against hepatitis A: comparison of different short-term immunization schedules. <i>Vaccine</i> , 1992 , 10 Suppl 1, S126-8	4.1	15
60	Combining autophagy stimulators and cellulose ethers for therapy against prion disease. <i>Prion</i> , 2019 , 13, 185-196	2.3	14
59	Elevated Epstein-Barr virus loads and lower antibody titers in competitive athletes. <i>Journal of Medical Virology</i> , 2010 , 82, 446-51	19.7	14
58	Critical significance of the region between Helix 1 and 2 for efficient dominant-negative inhibition by conversion-incompetent prion protein. <i>PLoS Pathogens</i> , 2013 , 9, e1003466	7.6	13

57	Molecular Virology 2013 ,		12
56	The octarepeat region of prion protein, but not the TM1 domain, is important for the antioxidant effect of prion protein. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 1622-30	7.8	12
55	Strategies for eliminating PrP(c) as substrate for prion conversion and for enhancing PrP(Sc) degradation. <i>Veterinary Microbiology</i> , 2007 , 123, 377-86	3.3	12
54	Prion infection influences murine endogenous retrovirus expression in neuronal cells. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 343, 825-31	3.4	12
53	Modulation of Glycosaminoglycans Affects PrPSc Metabolism but Does Not Block PrPSc Uptake. <i>Journal of Virology</i> , 2015 , 89, 9853-64	6.6	11
52	Small-scale Triton X-114 Extraction of Hydrophobic Proteins. <i>Bio-protocol</i> , 2014 , 4,	0.9	11
51	Failure of prion protein oxidative folding guides the formation of toxic transmembrane forms. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36693-701	5.4	11
50	Diphenylpyrazole-derived compounds increase survival time of mice after prion infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 4774-81	5.9	11
49	Targeting prion proteins in neurodegenerative disease. <i>Expert Opinion on Biological Therapy</i> , 2008 , 8, 923-40	5.4	11
48	Antibodies to a nonconjugated prion protein peptide 95-123 interfere with PrP(Sc) propagation in prion-infected cells. <i>Cellular and Molecular Neurobiology</i> , 2007 , 27, 271-84	4.6	11
47	Promising developments bringing prion diseases closer to therapy and prophylaxis. <i>Trends in Molecular Medicine</i> , 2003 , 9, 367-9	11.5	11
46	Cervid Prion Protein Polymorphisms: Role in Chronic Wasting Disease Pathogenesis. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	11
45	Gene-edited murine cell lines for propagation of chronic wasting disease prions. <i>Scientific Reports</i> , 2019 , 9, 11151	4.9	10
44	A genome-wide survey for prion-regulated miRNAs associated with cholesterol homeostasis. <i>BMC Genomics</i> , 2012 , 13, 486	4.5	10
43	Dynamic interactions of Sup35p and PrP prion protein domains modulate aggregate nucleation and seeding. <i>Prion</i> , 2008 , 2, 99-106	2.3	10
42	Introducing a rigid loop structure from deer into mouse prion protein increases its propensity for misfolding in vitro. <i>PLoS ONE</i> , 2013 , 8, e66715	3.7	10
41	An astrocyte cell line that differentially propagates murine prions. <i>Journal of Biological Chemistry</i> , 2020 , 295, 11572-11583	5.4	10
40	Recombinant prion protein vaccination of transgenic elk PrP mice and reindeer overcomes self-tolerance and protects mice against chronic wasting disease. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19812-19822	5.4	10

39	Dimerization of the cellular prion protein inhibits propagation of scrapie prions. <i>Journal of Biological Chemistry</i> , 2018 , 293, 8020-8031	5.4	9
38	Therapeutic vaccination reduces HIV sequence variability. <i>FASEB Journal</i> , 2008 , 22, 437-44	0.9	9
37	Genomic characterization of a novel HIV type 1 B/G intersubtype recombinant strain from an injecting drug user in Germany. <i>AIDS Research and Human Retroviruses</i> , 2005 , 21, 654-60	1.6	9
36	Cellulose ether treatment in vivo generates chronic wasting disease prions with reduced protease resistance and delayed disease progression. <i>Journal of Neurochemistry</i> , 2020 , 152, 727-740	6	9
35	Overexpression of quality control proteins reduces prion conversion in prion-infected cells. <i>Journal of Biological Chemistry</i> , 2018 , 293, 16069-16082	5.4	9
34	Immunization of cervidized transgenic mice with multimeric deer prion protein induces self-antibodies that antagonize chronic wasting disease infectivity in vitro. <i>Scientific Reports</i> , 2017 , 7, 10538	4.9	8
33	Piperazine derivatives inhibit PrP/PrP(res) propagation in vitro and in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 23-9	3.4	8
32	Isolated norovirus GII.7 strain within an extended GII.4 outbreak. <i>Journal of Medical Virology</i> , 2010 , 82, 1058-64	19.7	8
31	Variability of the Hepatitis B Surface Protein in HBV-Infected Liver Transplant Recipients. <i>Journal of Biomedical Science</i> , 1997 , 4, 146-154	13.3	8
30	Metformin reduces prion infection in neuronal cells by enhancing autophagy. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 523, 423-428	3.4	8
29	Sephin1 Reduces Prion Infection in Prion-Infected Cells and Animal Model. <i>Molecular Neurobiology</i> , 2020 , 57, 2206-2219	6.2	7
28	Fatal Epstein-Barr virus-associated lymphoproliferative disorder following treatment with a novel mTOR inhibitor for relapsed chronic lymphocytic leukemia leukemia cells. <i>Haematologica</i> , 2007 , 92, 1282-3	6.6	7
27	Preparation and Characterization of Cellulose Ether Liposomes for the Inhibition of Prion Formation in Prion-Infected Cells. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 2814-2820	3.9	6
26	Inhibition of prion amplification by expression of dominant inhibitory mutants--a systematic insertion mutagenesis study. <i>Infectious Disorders - Drug Targets</i> , 2009 , 9, 40-7	1.1	6
25	A seroepidemiological survey of antibodies to HTLV-I/HTLV-II in selected population groups in Paraguay. <i>Scandinavian Journal of Infectious Diseases</i> , 1992 , 24, 397-8		6
24	Assessing proteinase K resistance of fish prion proteins in a scrapie-infected mouse neuroblastoma cell line. <i>Viruses</i> , 2014 , 6, 4398-421	6.2	5
23	Conditional modulation of membrane protein expression in cultured cells mediated by prion protein recognition of short phosphorothioate oligodeoxynucleotides. <i>Journal of Biological Chemistry</i> , 2011 , 286, 6911-7	5.4	5
22	Neuroendocrine cultured cells counteract persistent prion infection by down-regulation of PrPc. <i>Molecular and Cellular Neurosciences</i> , 2008 , 38, 98-109	4.8	5

21	Prevalence of human T-cell lymphotropic virus infections in Germany. <i>Journal of Medical Virology</i> , 1994 , 43, 159-60	19.7	5
20	Modulation of Host Cell Death by SARS Coronavirus Proteins 2010 , 231-245		5
19	Identifying critical sites of PrP(c)-PrP(Sc) interaction in prion-infected cells by dominant-negative inhibition. <i>Prion</i> , 2013 , 7, 452-6	2.3	4
18	GABAA receptor subunit beta1 is involved in the formation of protease-resistant prion protein in prion-infected neuroblastoma cells. <i>FEBS Letters</i> , 2010 , 584, 1193-8	3.8	4
17	The immune response to different doses of inactivated hepatitis A vaccine. <i>Journal of Hepatology</i> , 1993 , 18 Suppl 2, S38-40	13.4	4
16	Ligands binding to the prion protein induce its proteolytic release with therapeutic potential in neurodegenerative proteinopathies. <i>Science Advances</i> , 2021 , 7, eabj1826	14.3	4
15	Polymorphisms in glia maturation factor 1 gene are markers of cellulose ether effectiveness in prion-infected mice. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 560, 105-111	3.4	2
14	Disulfide-crosslink scanning reveals prion-induced conformational changes and prion strain-specific structures of the pathological prion protein PrP. <i>Journal of Biological Chemistry</i> , 2018 , 293, 12730-12740	5.4	1
13	Astrocyte in prion disease: a double-edged sword.. <i>Neural Regeneration Research</i> , 2022 , 17, 1659-1665	4.5	1
12	Small-scale Subcellular Fractionation with Sucrose Step Gradient. <i>Bio-protocol</i> , 2014 , 4,	0.9	1
11	From Seeds to Fibrils and Back: Fragmentation as an Overlooked Step in the Propagation of Prions and Prion-Like Proteins. <i>Biomolecules</i> , 2020 , 10,	5.9	1
10	Early detection of prion protein aggregation with a fluorescent pentameric oligothiophene probe using spectral confocal microscopy. <i>Journal of Neurochemistry</i> , 2021 , 156, 1033-1048	6	1
9	Cellular Mechanisms of Propagation and Clearance 2013 , 147-160		0
8	Parvovirus B19 and necrotizing enterocolitis in neonates. <i>Journal of Pediatrics</i> , 2012 , 160, 887; author reply 887-8	3.6	
7	Variability of the Hepatitis B Surface Protein in HBV-Infected Liver T ransplant Recipients. <i>Journal of Biomedical Science</i> , 1997 , 4, 146-154	13.3	
6	Viren mit einzelsträngigem RNA-Genom in Plusstrangorientierung 2021 , 163-321		
5	Insights into the Cellular Trafficking of Prion Proteins 2005 , 379-405		
4	Prionen 2021 , 797-816		

- 3 The autophagy inducers AR-12 and AR-14 control prion infection. *FASEB Journal*, **2018**, 32, 795.5 0.9
- 2 Prionen **2010**, 667-685
- 1 Prions **2013**, 919-947