Surachai Supattapone

List of Publications by Year
in descending order

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		236925	189892
63	3,253	25	50
papers	citations	h-index	g-index

63	63	63	1788
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formation of native prions from minimal components in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9741-9746.	7.1	579
2	RNA molecules stimulate prion protein conversion. Nature, 2003, 425, 717-720.	27.8	464
3	Branched Polyamines Cure Prion-Infected Neuroblastoma Cells. Journal of Virology, 2001, 75, 3453-3461.	3.4	213
4	Isolation of phosphatidylethanolamine as a solitary cofactor for prion formation in the absence of nucleic acids. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8546-8551.	7.1	211
5	Prion Protein of 106 Residues Creates an Artificial Transmission Barrier for Prion Replication in Transgenic Mice. Cell, 1999, 96, 869-878.	28.9	204
6	Protease-resistant Prion Protein Amplification Reconstituted with Partially Purified Substrates and Synthetic Polyanions. Journal of Biological Chemistry, 2005, 280, 26873-26879.	3.4	177
7	Cofactor molecules maintain infectious conformation and restrict strain properties in purified prions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1938-46.	7.1	168
8	Selective Incorporation of Polyanionic Molecules into Hamster Prions. Journal of Biological Chemistry, 2007, 282, 36341-36353.	3.4	100
9	In VitroAmplification of Protease-Resistant Prion Protein Requires Free Sulfhydryl Groupsâ€. Biochemistry, 2003, 42, 4127-4135.	2.5	88
10	Species-Dependent Differences in Cofactor Utilization for Formation of the Protease-Resistant Prion Protein in Vitro. Biochemistry, 2010, 49, 3928-3934.	2.5	85
11	The Stoichiometry of Host PrPC Glycoforms Modulates the Efficiency of PrPSc Formation in Vitro. Biochemistry, 2006, 45, 14129-14139.	2.5	77
12	Prion protein conversion in vitro. Journal of Molecular Medicine, 2004, 82, 348-356.	3.9	69
13	Cofactor Molecules Induce Structural Transformation during Infectious Prion Formation. Structure, 2013, 21, 2061-2068.	3.3	64
14	Prion Protein Glycosylation Is Not Required for Strain-Specific Neurotropism. Journal of Virology, 2009, 83, 5321-5328.	3.4	59
15	Copper (II) ions potently inhibit purified PrPres amplification. Journal of Neurochemistry, 2006, 96, 1409-1415.	3.9	53
16	Trans-Dominant Inhibition of Prion Propagation In Vitro Is Not Mediated by an Accessory Cofactor. PLoS Pathogens, 2009, 5, e1000535.	4.7	52
17	Seeding Specificity and Ultrastructural Characteristics of Infectious Recombinant Prions. Biochemistry, 2011, 50, 7111-7116.	2.5	44
18	Dissociation of Infectivity from Seeding Ability in Prions with Alternate Docking Mechanism. PLoS Pathogens, 2011, 7, e1002128.	4.7	43

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19	Synthesis of High Titer Infectious Prions with Cofactor Molecules. Journal of Biological Chemistry, 2014, 289, 19850-19854.	3.4	42
20	A Structural and Functional Comparison Between Infectious and Non-Infectious Autocatalytic Recombinant PrP Conformers. PLoS Pathogens, 2015, 11, e1005017.	4.7	38
21	Pharmacological approaches to prion research. Biochemical Pharmacology, 2002, 63, 1383-1388.	4.4	34
22	Full restoration of specific infectivity and strain properties from pure mammalian prion protein. PLoS Pathogens, 2019, 15, e1007662.	4.7	30
23	Elucidating the role of cofactors in mammalian prion propagation. Prion, 2014, 8, 100-105.	1.8	29
24	Rescue of Transgenic Alzheimerâ€™s Pathophysiology by Polymeric Cellular Prion Protein Antagonists. Cell Reports, 2019, 26, 145-158.e8.	6.4	27
25	Cofactor and glycosylation preferences for in vitroÂprion conversion are predominantly determined by strain conformation. PLoS Pathogens, 2020, 16, e1008495.	4.7	27
26	What Makes a Prion Infectious?. Science, 2010, 327, 1091-1092.	12.6	26
27	In Vitro Prion Protein Conversion in Detergent-Solubilized Membranesâ€. Biochemistry, 2004, 43, 2613-2621.	2.5	24
28	The effects of prion protein proteolysis and disaggregation on the strain properties of hamster scrapie. Journal of General Virology, 2008, 89, 2642-2650.	2.9	20
29	In Situ Photodegradation of Incorporated Polyanion Does Not Alter Prion Infectivity. PLoS Pathogens, 2011, 7, e1002001.	4.7	20
30	Requirements for Mutant and Wild-Type Prion Protein Misfolding In Vitro. Biochemistry, 2015, 54, 1180-1187.	2.5	20
31	Complex Polyamines: Unique Prion Disaggregating Compounds. CNS and Neurological Disorders - Drug Targets, 2009, 8, 323-328.	1.4	18
32	Cofactor molecules: Essential partners for infectious prions. Progress in Molecular Biology and Translational Science, 2020, 175, 53-75.	1.7	16
33	Immunodetection of glycophosphatidylinositol-anchored proteins following treatment with phospholipase C. Analytical Biochemistry, 2007, 363, 318-320.	2.4	14
34	Phosphatidylethanolamine as a prion cofactor. Prion, 2012, 6, 417-419.	1.8	13
35	SEC24A identified as an essential mediator of thapsigargin-induced cell death in a genome-wide CRISPR/Cas9 screen. Cell Death Discovery, 2018, 4, 115.	4.7	13
36	Emergence of prions selectively resistant to combination drug therapy. PLoS Pathogens, 2020, 16, e1008581.	4.7	13

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37	CAG Expansions Are Genetically Stable and Form Nontoxic Aggregates in Cells Lacking Endogenous Polyglutamine Proteins. MBio, 2016, 7, .	4.1	10
38	Identification of a homology-independent linchpin domain controlling mouse and bank vole prion protein conversion. PLoS Pathogens, 2020, 16, e1008875.	4.7	9
39	Photodegradation illuminates the role of polyanions in prion infectivity. Prion, 2011, 5, 49-51.	1.8	8
40	A Genome-Wide CRISPR/Cas9 Screen Reveals that Riboflavin Regulates Hydrogen Peroxide Entry into HAP1 Cells. MBio, 2020, 11, .	4.1	8
41	On the horizon: a blood test for prions. Trends in Microbiology, 2006, 14, 149-151.	7.7	7
42	Interallelic Transcriptional Enhancement as an in Vivo Measure of Transvection in Drosophila melanogaster. G3: Genes, Genomes, Genetics, 2016, 6, 3139-3148.	1.8	6
43	Comparative Analysis of Mutant Huntingtin Binding Partners in Yeast Species. Scientific Reports, 2018, 8, 9554.	3.3	6
44	Hydrogen Peroxide-induced Cell Death in Mammalian Cells. , 2021, 2, 206-211.		5
45	Amplification of Purified Prions In Vitro. Methods in Molecular Biology, 2008, 459, 117-130.	0.9	5
46	Expanding the prion disease repertoire. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11748-11749.	7.1	4
47	NON-REDUCING ALKALINE SOLUBILIZATION AND RAPID ON-COLUMN REFOLDING OF RECOMBINANT PRION PROTEIN. Preparative Biochemistry and Biotechnology, 2012, 42, 77-86.	1.9	3
48	SEC24A facilitates colocalization and Ca2+ flux between the endoplasmic reticulum and mitochondria. Journal of Cell Science, 2021, 134, .	2.0	3
49	Dissociation of recombinant prion autocatalysis from infectivity. Prion, 2015, 9, 405-411.	1.8	2
50	Alternating anti-prion regimens reduce combination drug resistance but do not further extend survival in scrapie-infected mice. Journal of General Virology, 2021, 102, .	2.9	2
51	Which criteria best support the diagnosis of VV1 sporadic Creutzfeldtâ€“Jakob disease?. Nature Clinical Practice Neurology, 2006, 2, 296-297.	2.5	1
52	Transmissible spongiform encephalopathies. , 2008, , 251-262.		0
53	Cofactor Involvement in Prion Propagation. , 2013, , 93-105.		0
54	Title is missing!. , 2020, 16, e1008875.		0

#	Article	IF	Citations
55	Title is missing!. , 2020, 16, e1008875.		0
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