Yury O Chernoff

List of Publications by Year
in descending order

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91 papers	7,679 citations	71102 41 h-index	53230 85 g-index
91 all docs	91 docs citations	91 times ranked	6549 citing authors

#	Article	IF	Citations
1	Gene prediction in novel fungal genomes using an ab initio algorithm with unsupervised training. Genome Research, 2008, 18, 1979-1990.	5.5	800
2	Gene identification in novel eukaryotic genomes by self-training algorithm. Nucleic Acids Research, 2005, 33, 6494-6506.	14.5	746
3	Genesis and Variability of [PSI] Prion Factors in Saccharomyces cerevisiae. Genetics, 1996, 144, 1375-1386.	2.9	519
4	Genetic and Environmental Factors Affecting the de novo Appearance of the [PSI Â+ Â] Prion in Saccharomyces cerevisiae. Genetics, 1997, 147, 507-519.	2.9	448
5	Huntingtin toxicity in yeast model depends on polyglutamine aggregation mediated by a prion-like protein Rnq1. Journal of Cell Biology, 2002, 157, 997-1004.	5.2	348
6	Prions in Yeast. Genetics, 2012, 191, 1041-1072.	2.9	339
7	Deletion analysis of the SUP35 gene of the yeast Saccharomyces cerevisiae reveals two non-overlapping functional regions in the encoded protein. Molecular Microbiology, 1993, 7, 683-692.	2.5	297
8	Multicopy SUP35 gene induces de-novo appearance of psi-like factors in the yeast Saccharomyces cerevisiae. Current Genetics, 1993, 24, 268-270.	1.7	273
9	Antagonistic Interactions between Yeast Chaperones Hsp104 and Hsp70 in Prion Curing. Molecular and Cellular Biology, 1999, 19, 1325-1333.	2.3	258
10	Evidence for a Protein Mutator in Yeast: Role of the Hsp70-Related Chaperone Ssb in Formation, Stability, and Toxicity of the [PSI] Prion. Molecular and Cellular Biology, 1999, 19, 8103-8112.	2.3	238
11	Mechanism of Prion Loss after Hsp104 Inactivation in Yeast. Molecular and Cellular Biology, 2001, 21, 4656-4669.	2.3	195
12	Evolutionary conservation of prion-forming abilities of the yeast Sup35 protein. Molecular Microbiology, 2000, 35, 865-876.	2.5	188
13	Hsp70 Chaperones as Modulators of Prion Life Cycle. Genetics, 2005, 169, 1227-1242.	2.9	153
14	Abnormal proteins can form aggresome in yeast: aggresomeâ€targeting signals and components of the machinery. FASEB Journal, 2009, 23, 451-463.	0.5	150
15	Modulation of Prion Formation, Aggregation, and Toxicity by the Actin Cytoskeleton in Yeast. Molecular and Cellular Biology, 2006, 26, 617-629.	2.3	133
16	Genetic Study of Interactions Between the Cytoskeletal Assembly Protein Sla1 and Prion-Forming Domain of the Release Factor Sup35 (eRF3) in Saccharomyces cerevisiae. Genetics, 1999, 153, 81-94.	2.9	123
17	Modulation of Prion-dependent Polyglutamine Aggregation and Toxicity by Chaperone Proteins in the Yeast Model. Journal of Biological Chemistry, 2005, 280, 22809-22818.	3.4	122
18	Pleiotropic Effects of Ubp6 Loss on Drug Sensitivities and Yeast Prion Are Due to Depletion of the Free Ubiquitin Pool. Journal of Biological Chemistry, 2003, 278, 52102-52115.	3.4	102

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19	Aggregation of Expanded Polyglutamine Domain in Yeast Leads to Defects in Endocytosis. Molecular and Cellular Biology, 2003, 23, 7554-7565.	2.3	98
20	Analysis of prion factors in yeast. Methods in Enzymology, 2002, 351, 499-538.	1.0	94
21	Mutation processes at the protein level: is Lamarck back?. Mutation Research - Reviews in Mutation Research, 2001, 488, 39-64.	5.5	87
22	Stress and prions: Lessons from the yeast model. FEBS Letters, 2007, 581, 3695-3701.	2.8	77
23	Amyloidogenic domains, prions and structural inheritance: rudiments of early life or recent acquisition?. Current Opinion in Chemical Biology, 2004, 8, 665-671.	6.1	74
24	Effects of Ubiquitin System Alterations on the Formation and Loss of a Yeast Prion. Journal of Biological Chemistry, 2007, 282, 3004-3013.	3.4	74
25	Prion Induction by the Short-Lived, Stress-Induced Protein Lsb2 Is Regulated by Ubiquitination and Association with the Actin Cytoskeleton. Molecular Cell, 2011, 43, 242-252.	9.7	73
26	Destabilization and Recovery of a Yeast Prion after Mild Heat Shock. Journal of Molecular Biology, 2011, 408, 432-448.	4.2	73
27	Biomolecular Assemblies: Moving from Observation to Predictive Design. Chemical Reviews, 2018, 118, 11519-11574.	47.7	71
28	The Hofmeister effect on amyloid formation using yeast prion protein. Protein Science, 2010, 19, 47-56.	7.6	66
29	Dosage-dependent translational suppression in yeastSaccharomyces cerevisiae. Yeast, 1992, 8, 489-499.	1.7	63
30	Endocytosis machinery is involved in aggregation of proteins with expanded polyglutamine domains. FASEB Journal, 2007, 21, 1915-1925.	0.5	63
31	Prions, Chaperones, and Proteostasis in Yeast. Cold Spring Harbor Perspectives in Biology, 2017, 9, a023663.	5.5	63
32	Prion variant maintained only at high levels of the Hsp104 disaggregase. Current Genetics, 2006, 49, 21-29.	1.7	62
33	Prion species barrier between the closely related yeast proteins is detected despite coaggregation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2791-2796.	7.1	61
34	Hsp104 and Prion Propagation. Protein and Peptide Letters, 2009, 16, 598-605.	0.9	59
35	Regulation of Chaperone Effects on a Yeast Prion by Cochaperone Sgt2. Molecular and Cellular Biology, 2012, 32, 4960-4970.	2.3	56
36	Physiological and environmental control of yeast prions. FEMS Microbiology Reviews, 2014, 38, 326-344.	8.6	55

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37	Molecular Population Genetics and Evolution of a Prion-like Protein in Saccharomyces cerevisiae. Genetics, 2001, 159, 527-535.	2.9	54
38	Chaperone Effects on Prion and Nonprion Aggregates. Prion, 2007, 1, 217-222.	1.8	51
39	RuvbL1 and RuvbL2 enhance aggresome formation and disaggregate amyloid fibrils. EMBO Journal, 2015, 34, 2363-2382.	7.8	47
40	Genetic and epigenetic control of the efficiency and fidelity of cross-species prion transmission. Molecular Microbiology, 2010, 76, 1483-1499.	2.5	45
41	Polyglutamine Toxicity Is Controlled by Prion Composition and Gene Dosage in Yeast. PLoS Genetics, 2012, 8, e1002634.	3.5	45
42	Yeast Short-Lived Actin-Associated Protein Forms a Metastable Prion in Response to Thermal Stress. Cell Reports, 2017, 18, 751-761.	6.4	43
43	Feedback control of prion formation and propagation by the ribosomeâ€associated chaperone complex. Molecular Microbiology, 2015, 96, 621-632.	2.5	36
44	Biological Roles of Prion Domains. Prion, 2007, 1, 228-235.	1.8	33
45	Dual role of ribosome-associated chaperones in prion formation and propagation. Current Genetics, 2016, 62, 677-685.	1.7	30
46	Protein Misfolding during Pregnancy: New Approaches to Preeclampsia Diagnostics. International Journal of Molecular Sciences, 2019, 20, 6183.	4.1	30
47	Stress-dependent Proteolytic Processing of the Actin Assembly Protein Lsb1 Modulates a Yeast Prion. Journal of Biological Chemistry, 2014, 289, 27625-27639.	3.4	29
48	Differential effects of chaperones on yeast prions: CURrent view. Current Genetics, 2018, 64, 317-325.	1.7	29
49	The accuracy center of a eukaryotic ribosome. Biochemistry and Cell Biology, 1995, 73, 1141-1149.	2.0	28
50	Genetic interaction between yeast Saccharomyces cerevisiae release factors and the decoding region of 18 S rRNA. Journal of Molecular Biology, 2001, 305, 715-727.	4.2	28
51	Functional Mammalian Amyloids and Amyloid-Like Proteins. Life, 2020, 10, 156.	2.4	27
52	To CURe or not to CURe? Differential effects of the chaperone sorting factor Cur1 on yeast prions are mediated by the chaperone Sis1. Molecular Microbiology, 2017, 105, 242-257.	2.5	26
53	Contributions of the Prion Protein Sequence, Strain, and Environment to the Species Barrier. Journal of Biological Chemistry, 2016, 291, 1277-1288.	3.4	23
54	Mammalian amyloidogenic proteins promote prion nucleation in yeast. Journal of Biological Chemistry, 2018, 293, 3436-3450.	3.4	23

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55	Yeast Models for Amyloids and Prions: Environmental Modulation and Drug Discovery. Molecules, 2019, 24, 3388.	3.8	22
56	Identification of PrP sequences essential for the interaction between the PrP polymers and AÎ² peptide in a yeast-based assay. Prion, 2013, 7, 469-476.	1.8	21
57	Ion-specific Effects on Prion Nucleation and Strain Formation. Journal of Biological Chemistry, 2013, 288, 30300-30308.	3.4	21
58	Prion-based memory of heat stress in yeast. Prion, 2017, 11, 151-161.	1.8	21
59	A standard model of Alzheimerâ€™s disease?. Prion, 2018, 12, 261-265.	1.8	20
60	Application of yeast to studying amyloid and prion diseases. Advances in Genetics, 2020, 105, 293-380.	1.8	19
61	Distinct types of translation termination generate substrates for ribosome-associated quality control. Nucleic Acids Research, 2016, 44, 6840-6852.	14.5	17
62	Risk of Alzheimerâ€™s Disease in Cancer Patients: Analysis of Mortality Data from the US SEER Population-Based Registries. Cancers, 2020, 12, 796.	3.7	15
63	Pathogenic Polyglutamine Tracts Are Potent Inducers of Spontaneous Sup35 and Rnq1 Amyloidogenesis. PLoS ONE, 2010, 5, e9642.	2.5	14
64	Sequence specificity and fidelity of prion transmission in yeast. Seminars in Cell and Developmental Biology, 2011, 22, 444-451.	5.0	14
65	Yeast studies reveal moonlighting functions of the ancient actin cytoskeleton. IUBMB Life, 2014, 66, 538-545.	3.4	13
66	Are there prions in plants?. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6097-6099.	7.1	13
67	Interactions between chromosomal omnipotent suppressors and extrachromosomal effectors in Saccharomyces cerevisiae. Current Genetics, 1991, 19, 243-248.	1.7	12
68	Mutagenic specificity of the base analog 6-N-hydroxylaminopurine in the LYS2 gene of yeast Saccharomyces cerevisiae. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2001, 473, 151-161.	1.0	12
69	Development of molecular tools for diagnosis of Alzheimerâ€™s disease that are based on detection of amyloidogenic proteins. Prion, 2021, 15, 56-69.	1.8	12
70	Role of the Cell Asymmetry Apparatus and Ribosome-Associated Chaperones in the Destabilization of aSaccharomyces cerevisiaePrion by Heat Shock. Genetics, 2019, 212, 757-771.	2.9	11
71	Dosage-Dependent Modifiers of Psi-Dependnet Omnipotent Suppression in Yeast. , 1993, , 101-110.		11
72	Replication vehicles of protein-based inheritance. Trends in Biotechnology, 2004, 22, 549-552.	9.3	9

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73	Identity determinants of infectious proteins. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13191-13192.	7.1	9
74	Proteolysis suppresses spontaneous prion generation in yeast. Journal of Biological Chemistry, 2017, 292, 20113-20124.	3.4	9
75	Modulation of the Formation of AÎ²- and Sup35NM-Based Amyloids by Complex Interplay of Specific and Nonspecific Ion Effects. Journal of Physical Chemistry B, 2018, 122, 4972-4981.	2.6	9
76	Regulation of the endocytosis and prion-chaperoning machineries by yeast E3 ubiquitin ligase Rsp5 as revealed by orthogonal ubiquitin transfer. Cell Chemical Biology, 2021, 28, 1283-1297.e8.	5.2	9
77	Response from Chernoff et al.. Trends in Microbiology, 1995, 3, 369.	7.7	5
78	Do Amyloids Remember Their Origin? New Insights into the Prion Species Barrier. Molecular Cell, 2004, 14, 147-148.	9.7	5
79	TheSaccharomyces cerevisiae ESU1 gene, which is responsible for enhancement of termination suppression, corresponds to the 3â€²-terminal half ofGAL11. Yeast, 2005, 22, 895-906.	1.7	5
80	Strain conformation controls the specificity of cross-species prion transmission in the yeast model. Prion, 2016, 10, 269-282.	1.8	5
81	Design and synthesis of novel tacrineâ€“indole hybrids as potential multitarget-directed ligands for the treatment of Alzheimer's disease. Future Medicinal Chemistry, 2021, 13, 785-804.	2.3	5
82	Aggregation and Prion-Inducing Properties of the G-Protein Gamma Subunit Ste18 are Regulated by Membrane Association. International Journal of Molecular Sciences, 2020, 21, 5038.	4.1	4
83	Modeling Amyloid Aggregation Kinetics: A Case Study with Sup35NM. Journal of Physical Chemistry B, 2021, 125, 4955-4963.	2.6	3
84	Prion: disease or relief?. Nature Cell Biology, 2008, 10, 1019-1021.	10.3	2
85	Mutations and Natural Selection in the Protein World. Journal of Molecular Biology, 2011, 413, 525-526.	4.2	2
86	The call of the unknown: The story of [PSI⁺]. Prion, 2015, 9, 315-317.	1.8	1
87	In memory of Susan Lindquist (1949â€“2016). Prion, 2017, 11, 1-3.	1.8	1
88	A special focus issue on the materials of Prion 2011 meeting in Montreal, Canada. Prion, 2012, 6, 95-96.	1.8	0
89	Prionreviewer acknowledgments. Prion, 2013, 7, 441-442.	1.8	0
90	Sequence specificity of amyloid propagation in the yeast model. FASEB Journal, 2008, 22, 1001.3.	0.5	0

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91	Prion formation in yeast is influenced by alterations of the ubiquitin proteolysis. FASEB Journal, 2008, 22, 604.2.	0.5	0