

Jose Ayte

List of Publications by Year in descending order

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72
papers

2,495
citations

172207

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214527

47
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docs citations

74
times ranked

2294
citing authors

#	ARTICLE	IF	CITATIONS
1	A cysteine-sulfinic acid in peroxiredoxin regulates H ₂ O ₂ -sensing by the antioxidant Pap1 pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8875-8880.	3.3	230
2	Modification of tRNA ^{Lys} UUU by Elongator Is Essential for Efficient Translation of Stress mRNAs. <i>PLoS Genetics</i> , 2013, 9, e1003647.	1.5	115
3	Lifespan extension by calorie restriction relies on the Sty1 MAP kinase stress pathway. <i>EMBO Journal</i> , 2010, 29, 981-991.	3.5	108
4	Activation of the redox sensor Pap1 by hydrogen peroxide requires modulation of the intracellular oxidant concentration. <i>Molecular Microbiology</i> , 2004, 52, 1427-1435.	1.2	104
5	Rat mitochondrial and cytosolic 3-hydroxy-3-methylglutaryl-CoA synthases are encoded by two different genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 3874-3878.	3.3	87
6	Diethylmaleate activates the transcription factor Pap1 by covalent modification of critical cysteine residues. <i>Molecular Microbiology</i> , 2002, 45, 243-254.	1.2	87
7	Regulation of the expression of the mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase gene. Its role in the control of ketogenesis. <i>Biochemical Journal</i> , 1992, 283, 261-264.	1.7	86
8	Mitochondrial Dysfunction Increases Oxidative Stress and Decreases Chronological Life Span in Fission Yeast. <i>PLoS ONE</i> , 2008, 3, e2842.	1.1	79
9	Genome-Wide Screen of Genes Required for Caffeine Tolerance in Fission Yeast. <i>PLoS ONE</i> , 2009, 4, e6619.	1.1	77
10	Promoter-driven splicing regulation in fission yeast. <i>Nature</i> , 2008, 455, 997-1000.	13.7	76
11	Transcription Factors Pcr1 and Atf1 Have Distinct Roles in Stress- and Sty1-Dependent Gene Regulation. <i>Eukaryotic Cell</i> , 2008, 7, 826-835.	3.4	76
12	Monitoring in vivo reversible cysteine oxidation in proteins using ICAT and mass spectrometry. <i>Nature Protocols</i> , 2014, 9, 1131-1145.	5.5	72
13	The Glycolytic Metabolite Methylglyoxal Activates Pap1 and Sty1 Stress Responses in <i>Schizosaccharomyces pombe</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 36708-36713.	1.6	57
14	A Cascade of Iron-Containing Proteins Governs the Genetic Iron Starvation Response to Promote Iron Uptake and Inhibit Iron Storage in Fission Yeast. <i>PLoS Genetics</i> , 2015, 11, e1005106.	1.5	57
15	Feedback regulation of the MBF transcription factor by cyclin Cig2. <i>Nature Cell Biology</i> , 2001, 3, 1043-1050.	4.6	51
16	Dissection of a Redox Relay: H ₂ O ₂ -Dependent Activation of the Transcription Factor Pap1 through the Peroxidatic Tpx1-Thioredoxin Cycle. <i>Cell Reports</i> , 2013, 5, 1413-1424.	2.9	51
17	A Meiosis-Specific Cyclin Regulated by Splicing Is Required for Proper Progression through Meiosis. <i>Molecular and Cellular Biology</i> , 2005, 25, 6330-6337.	1.1	47
18	Gcn5 facilitates Pol II progression, rather than recruitment to nucleosome-depleted stress promoters, in <i>Schizosaccharomyces pombe</i> . <i>Nucleic Acids Research</i> , 2011, 39, 6369-6379.	6.5	47

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19	The transcription factors Pap1 and Prr1 collaborate to activate antioxidant, but not drug tolerance, genes in response to H ₂ O ₂ . <i>Nucleic Acids Research</i> , 2012, 40, 4816-4824.	6.5	46
20	The oxidized thiol proteome in fission yeast—Optimization of an ICAT-based method to identify H ₂ O ₂ -oxidized proteins. <i>Journal of Proteomics</i> , 2011, 74, 2476-2486.	1.2	45
21	The <i>Schizosaccharomyces pombe</i> MBF Complex Requires Heterodimerization for Entry into S Phase. <i>Molecular and Cellular Biology</i> , 1995, 15, 2589-2599.	1.1	41
22	The G1/S Cyclin Cig2p during Meiosis in Fission Yeast. <i>Molecular Biology of the Cell</i> , 2002, 13, 2080-2090.	0.9	38
23	Living on the edge: stress and activation of stress responses promote lifespan extension. <i>Aging</i> , 2010, 2, 231-237.	1.4	38
24	The rat mitochondrial 3-hydroxy-3-methylglutaryl-coenzyme-A-synthase gene contains elements that mediate its multihormonal regulation and tissue specificity. <i>FEBS Journal</i> , 1993, 213, 773-779.	0.2	37
25	Chemical genetic induction of meiosis in <i>Schizosaccharomyces pombe</i> . <i>Cell Cycle</i> , 2012, 11, 1621-1625.	1.3	37
26	<i>Schizosaccharomyces pombe</i> Cells Lacking the Ran-binding Protein Hba1 Show a Multidrug Resistance Phenotype Due to Constitutive Nuclear Accumulation of Pap1. <i>Journal of Biological Chemistry</i> , 2003, 278, 40565-40572.	1.6	36
27	Nuclear roles and regulation of chromatin structure by the stress-dependent MAP kinase Sty1 of <i>Schizosaccharomyces pombe</i> . <i>Molecular Microbiology</i> , 2011, 82, 542-554.	1.2	35
28	Monitoring cytosolic H ₂ O ₂ fluctuations arising from altered plasma membrane gradients or from mitochondrial activity. <i>Nature Communications</i> , 2019, 10, 4526.	5.8	33
29	Chaperone-Facilitated Aggregation of Thermo-Sensitive Proteins Shields Them from Degradation during Heat Stress. <i>Cell Reports</i> , 2020, 30, 2430-2443.e4.	2.9	33
30	The DNA damage and the DNA replication checkpoints converge at the MBF transcription factor. <i>Molecular Biology of the Cell</i> , 2013, 24, 3350-3357.	0.9	31
31	Deciphering the role of the signal- and Sty1 kinase-dependent phosphorylation of the stress-responsive transcription factor Atf1 on gene activation. <i>Journal of Biological Chemistry</i> , 2017, 292, 13635-13644.	1.6	31
32	Is Oxidized Thioredoxin a Major Trigger for Cysteine Oxidation? Clues from a Redox Proteomics Approach. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 1549-1556.	2.5	30
33	Yox1 links MBF-dependent transcription to completion of DNA synthesis. <i>EMBO Reports</i> , 2011, 12, 84-89.	2.0	28
34	Prp4 Kinase Grants the License to Splice: Control of Weak Splice Sites during Spliceosome Activation. <i>PLoS Genetics</i> , 2016, 12, e1005768.	1.5	27
35	Nucleotide sequence of a rat liver cDNA encoding the Cytosolic 3-hydroxy-3-methylglutaryl coenzyme A synthase. <i>Nucleic Acids Research</i> , 1990, 18, 3642-3642.	6.5	26
36	Gene expression of enzymes regulating ketogenesis and fatty acid metabolism in regenerating rat liver. <i>Biochemical Journal</i> , 1994, 299, 65-69.	1.7	25

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37	Testis and ovary express the gene for the ketogenic mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase. <i>Journal of Lipid Research</i> , 1993, 34, 867-874.	2.0	24
38	TOR and MAP kinase pathways synergistically regulate autophagy in response to nutrient depletion in fission yeast. <i>Autophagy</i> , 2022, 18, 375-390.	4.3	22
39	Using in vivo oxidation status of one- and two-component redox relays to determine H ₂ O ₂ levels linked to signaling and toxicity. <i>BMC Biology</i> , 2018, 16, 61.	1.7	20
40	Testis and ovary express the gene for the ketogenic mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase. <i>Journal of Lipid Research</i> , 1993, 34, 867-74.	2.0	20
41	Diurnal rhythm of rat liver cytosolic 3-hydroxy-3-methylglutaryl-CoA synthase. <i>Biochemical Journal</i> , 1991, 280, 61-64.	1.7	19
42	G ₁ /S transcription and the DNA synthesis checkpoint: Common regulatory mechanisms. <i>Cell Cycle</i> , 2011, 10, 912-915.	1.3	19
43	The Mitochondria-to-Cytosol H ₂ O ₂ Gradient Is Caused by Peroxiredoxin-Dependent Cytosolic Scavenging. <i>Antioxidants</i> , 2021, 10, 731.	2.2	18
44	A genetic approach to study H ₂ O ₂ scavenging in fission yeast – distinct roles of peroxiredoxin and catalase. <i>Molecular Microbiology</i> , 2014, 92, 246-257.	1.2	17
45	Cells Lacking Pfh1, a Fission Yeast Homolog of Mammalian Frataxin Protein, Display Constitutive Activation of the Iron Starvation Response. <i>Journal of Biological Chemistry</i> , 2012, 287, 43042-43051.	1.6	16
46	Reversible thiol oxidation in the H ₂ O ₂ -dependent activation of the transcription factor Pap1. <i>Journal of Cell Science</i> , 2013, 126, 2279-84.	1.2	16
47	The Fission Yeast Protein p73 ^{res2} Is an Essential Component of the Mitotic MBF Complex and a Master Regulator of Meiosis. <i>Molecular and Cellular Biology</i> , 1997, 17, 6246-6254.	1.1	15
48	Methylation of the regulatory region of the mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase gene leads to its transcriptional inactivation. <i>Biochemical Journal</i> , 1993, 295, 807-812.	1.7	14
49	Genome-wide Screening of Regulators of Catalase Expression. <i>Journal of Biological Chemistry</i> , 2016, 291, 790-799.	1.6	13
50	Phospho-mimicking Atf1 mutants bypass the transcription activating function of the MAP kinase Sty1 of fission yeast. <i>Current Genetics</i> , 2018, 64, 97-102.	0.8	13
51	Spatiotemporal Control of Forkhead Binding to DNA Regulates the Meiotic Gene Expression Program. <i>Cell Reports</i> , 2016, 14, 885-895.	2.9	12
52	Binding of the transcription factor Atf1 to promoters serves as a barrier to phase nucleosome arrays and avoid cryptic transcription. <i>Nucleic Acids Research</i> , 2014, 42, 10351-10359.	6.5	11
53	Gcn5-mediated acetylation at MBF-regulated promoters induces the G1/S transcriptional wave. <i>Nucleic Acids Research</i> , 2019, 47, 8439-8451.	6.5	10
54	Structural characterization of the 3' noncoding region of the gene encoding rat mitochondrial 3-hydroxy-3-methylglutaryl coenzyme A synthase. <i>Gene</i> , 1993, 123, 267-270.	1.0	9

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55	Stress-dependent inhibition of polarized cell growth through unbalancing the GEF/GAP regulation of Cdc42. <i>Cell Reports</i> , 2021, 37, 109951.	2.9	8
56	The INO80 complex activates the transcription of S-phase genes in a cell cycle-regulated manner. <i>FEBS Journal</i> , 2018, 285, 3870-3881.	2.2	7
57	Identification of ubiquitin-proteasome system components affecting the degradation of the transcription factor Pap1. <i>Redox Biology</i> , 2020, 28, 101305.	3.9	7
58	The Hsp40 Mas5 Connects Protein Quality Control and the General Stress Response through the Thermo-sensitive Pyp1. <i>IScience</i> , 2020, 23, 101725.	1.9	7
59	Characterization of the gene encoding the 10 kDa polypeptide of photosystem II from <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 1991, 17, 517-522.	2.0	6
60	Immunolocalization of mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase in rat liver. <i>Journal of Cellular Physiology</i> , 1995, 162, 103-109.	2.0	6
61	Methionine sulphoxide reductases revisited: free methionine as a primary target of stress in auxotrophic fission yeast. <i>Molecular Microbiology</i> , 2013, 90, 1113-1124.	1.2	6
62	Phosphorylation of the Transcription Factor Atf1 at Multiple Sites by the MAP Kinase Sty1 Controls Homologous Recombination and Transcription. <i>Journal of Molecular Biology</i> , 2020, 432, 5430-5446.	2.0	6
63	Identification of a cholesterol-regulated 180-kDa microsomal protein in rat hepatocytes. <i>FEBS Journal</i> , 1990, 188, 123-129.	0.2	5
64	Native RNA sequencing in fission yeast reveals frequent alternative splicing isoforms. <i>Genome Research</i> , 2022, 32, 1215-1227.	2.4	5
65	A functional genome-wide genetic screening identifies new pathways controlling the G1/S transcriptional wave. <i>Cell Cycle</i> , 2016, 15, 720-729.	1.3	4
66	Lack of a peroxiredoxin suppresses the lethality of cells devoid of electron donors by channelling electrons to oxidized ribonucleotide reductase. <i>PLoS Genetics</i> , 2017, 13, e1006858.	1.5	4
67	Evolution of the Early Spliceosomal Complex—From Constitutive to Regulated Splicing. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12444.	1.8	4
68	Cross talk between the upstream exon-intron junction and Prp2 facilitates splicing of non-consensus introns. <i>Cell Reports</i> , 2021, 37, 109893.	2.9	3
69	Expression of Huntingtin and TDP-43 Derivatives in Fission Yeast Can Cause Both Beneficial and Toxic Effects. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3950.	1.8	2
70	At the (3 rd) end, you'll turn to meiosis. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 350-351.	3.6	1
71	SWI/SNF and RSC remodeler complexes bind to MBF-dependent genes. <i>Cell Cycle</i> , 2021, 20, 2652-2661.	1.3	1
72	Stress-induced cell depolarization through the MAP kinase—Cdc42 axis. <i>Trends in Cell Biology</i> , 2022, , .	3.6	1