

Peter J Espenshade

List of Publications by Year in descending order

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82
papers

6,489
citations

117625

34
h-index

106344

65
g-index

85
all docs

85
docs citations

85
times ranked

7061
citing authors

#	ARTICLE	IF	CITATIONS
1	Crucial Step in Cholesterol Homeostasis. <i>Cell</i> , 2002, 110, 489-500.	28.9	861
2	Regulation of Sterol Synthesis in Eukaryotes. <i>Annual Review of Genetics</i> , 2007, 41, 401-427.	7.6	467
3	Expanding Roles for SREBP in Metabolism. <i>Cell Metabolism</i> , 2012, 16, 414-419.	16.2	424
4	Molecular Identification of the Sterol-Regulated Luminal Protease that Cleaves SREBPs and Controls Lipid Composition of Animal Cells. <i>Molecular Cell</i> , 1998, 2, 505-514.	9.7	371
5	Regulated Step in Cholesterol Feedback Localized to Budding of SCAP from ER Membranes. <i>Cell</i> , 2000, 102, 315-323.	28.9	307
6	SREBP Pathway Responds to Sterols and Functions as an Oxygen Sensor in Fission Yeast. <i>Cell</i> , 2005, 120, 831-842.	28.9	305
7	Transport-Dependent Proteolysis of SREBP. <i>Cell</i> , 1999, 99, 703-712.	28.9	289
8	Regulation of HMG-CoA reductase in mammals and yeast. <i>Progress in Lipid Research</i> , 2011, 50, 403-410.	11.6	241
9	Evolutionary conservation and adaptation in the mechanism that regulates SREBP action: what a long, strange tRIP it's been. <i>Genes and Development</i> , 2009, 23, 2578-2591.	5.9	220
10	Dap1/PGRMC1 Binds and Regulates Cytochrome P450 Enzymes. <i>Cell Metabolism</i> , 2007, 5, 143-149.	16.2	202
11	Hierarchical Modularity and the Evolution of Genetic Interactomes across Species. <i>Molecular Cell</i> , 2012, 46, 691-704.	9.7	185
12	Sre1p, a regulator of oxygen sensing and sterol homeostasis, is required for virulence in <i>Cryptococcus neoformans</i> . <i>Molecular Microbiology</i> , 2007, 64, 614-629.	2.5	183
13	Autocatalytic Processing of Site-1 Protease Removes Propeptide and Permits Cleavage of Sterol Regulatory Element-binding Proteins. <i>Journal of Biological Chemistry</i> , 1999, 274, 22795-22804.	3.4	157
14	Sterol Regulatory Element Binding Protein Is a Principal Regulator of Anaerobic Gene Expression in Fission Yeast. <i>Molecular and Cellular Biology</i> , 2006, 26, 2817-2831.	2.3	157
15	LST1 Is a SEC24 Homologue Used for Selective Export of the Plasma Membrane ATPase from the Endoplasmic Reticulum. <i>Journal of Cell Biology</i> , 1999, 145, 659-672.	5.2	156
16	COPII Subunit Interactions in the Assembly of the Vesicle Coat. <i>Journal of Biological Chemistry</i> , 1997, 272, 25413-25416.	3.4	144
17	Sterol Regulatory Element Binding Proteins in Fungi: Hypoxic Transcription Factors Linked to Pathogenesis. <i>Eukaryotic Cell</i> , 2010, 9, 352-359.	3.4	135
18	SREBPs: sterol-regulated transcription factors. <i>Journal of Cell Science</i> , 2006, 119, 973-976.	2.0	135

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19	Sterols block binding of COPII proteins to SCAP, thereby controlling SCAP sorting in ER. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11694-11699.	7.1	132
20	Oxygen-regulated degradation of fission yeast SREBP by Ofd1, a prolyl hydroxylase family member. EMBO Journal, 2008, 27, 1491-501.	7.8	90
21	SREBPs: sterol-regulated transcription factors. Journal of Cell Science, 2006, 119, 973-976.	2.0	89
22	Cobalt chloride, a hypoxia-mimicking agent, targets sterol synthesis in the pathogenic fungus <i>Cryptococcus neoformans</i> . Molecular Microbiology, 2007, 65, 1018-1033.	2.5	74
23	Yeast SREBP Cleavage Activation Requires the Golgi Dsc E3 Ligase Complex. Molecular Cell, 2011, 42, 160-171.	9.7	72
24	Secreted Site-1 Protease Cleaves Peptides Corresponding to Luminal Loop of Sterol Regulatory Element-binding Proteins. Journal of Biological Chemistry, 1999, 274, 22805-22812.	3.4	63
25	Sterol Regulatory Element-binding Protein (SREBP) Cleavage Regulates Golgi-to-Endoplasmic Reticulum Recycling of SREBP Cleavage-activating Protein (SCAP). Journal of Biological Chemistry, 2014, 289, 7547-7557.	3.4	60
26	<i>Cryptococcus neoformans</i> Site-2 protease is required for virulence and survival in the presence of azole drugs. Molecular Microbiology, 2009, 74, 672-690.	2.5	56
27	Fatostatin blocks ER exit of SCAP but inhibits cell growth in a SCAP-independent manner. Journal of Lipid Research, 2016, 57, 1564-1573.	4.2	53
28	Proximity-dependent biotin labelling in yeast using the engineered ascorbate peroxidase APEX2. Biochemical Journal, 2016, 473, 2463-2469.	3.7	53
29	4-Methyl Sterols Regulate Fission Yeast SREBP-Scap under Low Oxygen and Cell Stress. Journal of Biological Chemistry, 2007, 282, 24388-24396.	3.4	49
30	SREBP Controls Oxygen-Dependent Mobilization of Retrotransposons in Fission Yeast. PLoS Genetics, 2007, 3, e131.	3.5	49
31	Conservation of the Sterol Regulatory Element-Binding Protein Pathway and Its Pathobiological Importance in <i>Cryptococcus neoformans</i> . Eukaryotic Cell, 2009, 8, 1770-1779.	3.4	49
32	Insig Regulates HMG-CoA Reductase by Controlling Enzyme Phosphorylation in Fission Yeast. Cell Metabolism, 2008, 8, 522-531.	16.2	43
33	Yeast Sterol Regulatory Element-binding Protein (SREBP) Cleavage Requires Cdc48 and Dsc5, a Ubiquitin Regulatory X Domain-containing Subunit of the Golgi Dsc E3 Ligase. Journal of Biological Chemistry, 2012, 287, 672-681.	3.4	43
34	Oxygen-dependent binding of Nro1 to the prolyl hydroxylase Ofd1 regulates SREBP degradation in yeast. EMBO Journal, 2009, 28, 135-143.	7.8	41
35	Mga2 Transcription Factor Regulates an Oxygen-responsive Lipid Homeostasis Pathway in Fission Yeast. Journal of Biological Chemistry, 2016, 291, 12171-12183.	3.4	37
36	A Golgi rhomboid protease Rbd2 recruits Cdc48 to cleave yeast SREBP. EMBO Journal, 2016, 35, 2332-2349.	7.8	36

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37	Ergosterol Regulates Sterol Regulatory Element Binding Protein (SREBP) Cleavage in Fission Yeast. <i>Journal of Biological Chemistry</i> , 2010, 285, 41051-41061.	3.4	33
38	Degradation of Sterol Regulatory Element-binding Protein Precursor Requires the Endoplasmic Reticulum-associated Degradation Components Ubc7 and Hrd1 in Fission Yeast. <i>Journal of Biological Chemistry</i> , 2009, 284, 20512-20521.	3.4	32
39	Identification of Candidate Substrates for the Golgi Tul1 E3 Ligase Using Quantitative diGly Proteomics in Yeast. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2871-2882.	3.8	32
40	Regulation of lipid metabolism: a tale of two yeasts. <i>Current Opinion in Cell Biology</i> , 2012, 24, 502-508.	5.4	27
41	Subunit Architecture of the Golgi Dsc E3 Ligase Required for Sterol Regulatory Element-binding Protein (SREBP) Cleavage in Fission Yeast. <i>Journal of Biological Chemistry</i> , 2013, 288, 21043-21054.	3.4	27
42	Oxygen-dependent, alternative promoter controls translation of <i>tco1</i> + in fission yeast. <i>Nucleic Acids Research</i> , 2008, 36, 2024-2031.	14.5	26
43	Regulation of the Sre1 Hypoxic Transcription Factor by Oxygen-Dependent Control of DNA Binding. <i>Molecular Cell</i> , 2011, 44, 225-234.	9.7	26
44	Sterol Regulatory Element-Binding Protein (Sre1) Promotes the Synthesis of Carotenoids and Sterols in <i>Xanthophyllomyces dendrorhous</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 586.	3.5	26
45	Progesterone receptor membrane component 1 (PGRMC1) binds and stabilizes cytochromes P450 through a heme-independent mechanism. <i>Journal of Biological Chemistry</i> , 2021, 297, 101316.	3.4	22
46	Coordinate Regulation of Yeast Sterol Regulatory Element-binding Protein (SREBP) and Mga2 Transcription Factors. <i>Journal of Biological Chemistry</i> , 2017, 292, 5311-5324.	3.4	21
47	Complex structure of the fission yeast SREBP-SCAP binding domains reveals an oligomeric organization. <i>Cell Research</i> , 2016, 26, 1197-1211.	12.0	19
48	Identification of twenty-three mutations in fission yeast Scap that constitutively activate SREBP. <i>Journal of Lipid Research</i> , 2008, 49, 2001-2012.	4.2	15
49	Structure of the WD40 domain of SCAP from fission yeast reveals the molecular basis for SREBP recognition. <i>Cell Research</i> , 2015, 25, 401-411.	12.0	15
50	Regulation of SREBP during hypoxia requires Ofd1-mediated control of both DNA binding and degradation. <i>Molecular Biology of the Cell</i> , 2012, 23, 3764-3774.	2.1	14
51	Dipyridamole Inhibits Lipogenic Gene Expression by Retaining SCAP-SREBP in the Endoplasmic Reticulum. <i>Cell Chemical Biology</i> , 2021, 28, 169-179.e7.	5.2	14
52	Targeting Stearoyl-CoA Desaturase in Solid Tumors. <i>Cancer Research</i> , 2022, 82, 1682-1688.	0.9	13
53	Oxygen-responsive transcriptional regulation of lipid homeostasis in fungi: Implications for anti-fungal drug development. <i>Seminars in Cell and Developmental Biology</i> , 2018, 81, 110-120.	5.0	12
54	Structural Requirements for Sterol Regulatory Element-binding Protein (SREBP) Cleavage in Fission Yeast. <i>Journal of Biological Chemistry</i> , 2013, 288, 20351-20360.	3.4	10

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55	Casein Kinase 1 Regulates Sterol Regulatory Element-binding Protein (SREBP) to Control Sterol Homeostasis. <i>Journal of Biological Chemistry</i> , 2014, 289, 2725-2735.	3.4	10
56	Sugar Makes Fat by Talking to SCAP. <i>Cancer Cell</i> , 2015, 28, 548-549.	16.8	9
57	The Hypoxic Regulator of Sterol Synthesis Nro1 Is a Nuclear Import Adaptor. <i>Structure</i> , 2011, 19, 503-514.	3.3	8
58	Glucose Controls Phosphoregulation of Hydroxymethylglutaryl Coenzyme A Reductase through the Protein Phosphatase 2A-related Phosphatase Protein, Ppe1, and Insig in Fission Yeast. <i>Journal of Biological Chemistry</i> , 2011, 286, 27139-27146.	3.4	8
59	Endoplasmic Reticulum Exit of Golgi-resident Defective for SREBP Cleavage (Dsc) E3 Ligase Complex Requires Its Activity. <i>Journal of Biological Chemistry</i> , 2015, 290, 14430-14440.	3.4	8
60	Prolyl dihydroxylation of unassembled uS12/Rps23 regulates fungal hypoxic adaptation. <i>ELife</i> , 2017, 6, .	6.0	7
61	Serum lipoproteinâ€‘derived fatty acids regulate hypoxia-inducible factor. <i>Journal of Biological Chemistry</i> , 2020, 295, 18284-18300.	3.4	7
62	Dsc E3 ligase localization to the Golgi requires the ATPase Cdc48 and cofactor Ufd1 for activation of sterol regulatory element-binding protein in fission yeast. <i>Journal of Biological Chemistry</i> , 2017, 292, 16333-16350.	3.4	6
63	Identifying a static nonlinear structure in a biological system using noisy, sparse data. <i>Journal of Theoretical Biology</i> , 2012, 300, 232-241.	1.7	5
64	A Scientistâ€™s Oath. <i>Molecular Cell</i> , 2018, 71, 879-881.	9.7	3
65	Lipid balance must be just right to prevent development of severe liver damage. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	3
66	The SREBP Pathway. , 2010, , 2505-2510.		1
67	Overcoming data limitations to identify a static nonlinearity in a biological signaling cascade. , 2011, , .		1
68	SREBP Controls Oxygen-Dependent Mobilization of Retrotransposons in Fission Yeast. <i>PLoS Genetics</i> , 2005, preprint, e131.	3.5	0
69	2â€‘oxoglutarateâ€‘Fe(II)-dependent dioxygenase regulates degradation of nuclear sterol regulatory element binding protein in fission yeast. <i>FASEB Journal</i> , 2007, 21, A609.	0.5	0
70	Development of a selection strategy to identify novel genes involved in the <i>S. pombe</i> SREBP pathway.. <i>FASEB Journal</i> , 2007, 21, A608.	0.5	0
71	Insig-independent activation of fission yeast SREBP/SCAP by 4,4â€‘methyl sterol intermediates. <i>FASEB Journal</i> , 2007, 21, .	0.5	0
72	Insig Regulates HMGâ€‘CoA Reductase by a Nonâ€‘Degradative Mechanism in Fission Yeast. <i>FASEB Journal</i> , 2007, 21, A609.	0.5	0

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73	Genetic screen to identify regulators of nuclear sterol regulatory element binding protein (SREBP) in fission yeast. FASEB Journal, 2007, 21, A608.	0.5	0
74	Oxygen-dependent regulation of sterol regulatory element binding protein (SREBP) in fission yeast. FASEB Journal, 2007, 21, A608.	0.5	0
75	Cryptococcus neoformans sterol regulatory element binding protein (Sre1p), a virulence factor that functions in oxygen sensing and sterol homeostasis. FASEB Journal, 2007, 21, A608.	0.5	0
76	Oxygen-Dependent Degradation of Yeast SREBP Requires the N-End Rule E3 Ligase Ubr1. FASEB Journal, 2009, 23, 689.7.	0.5	0
77	Fungal SREBPs: Hypoxic Transcription Factors Required for Pathogenesis. FASEB Journal, 2012, 26, 216.1.	0.5	0
78	Structure-function studies of the Golgi Dsc E3 ligase complex required for SREBP activation in yeast. FASEB Journal, 2013, 27, 557.2.	0.5	0
79	Serum Lipoproteins Regulate Hypoxia-Inducible Factors Under Normoxia. FASEB Journal, 2019, 33, 652.7.	0.5	0
80	Requirement of Sterol Regulatory Element-Binding Protein Pathway in Pancreatic Ductal Adenocarcinoma. FASEB Journal, 2019, 33, .	0.5	0
81	PGRMC1 Stabilizes Cytochromes P450 And Is Required for Activity In Vivo. FASEB Journal, 2020, 34, 1-1.	0.5	0
82	Abstract PR-009: Targeting the sterol regulatory element-binding protein pathway in pancreatic ductal adenocarcinoma. , 2021, , .		0