

Gil-Soo Han

List of Publications by Year in descending order

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51
papers

3,659
citations

147801

31
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206112

48
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52
all docs

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docs citations

52
times ranked

2492
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Saccharomyces cerevisiae</i> Lipin Homolog Is a Mg ²⁺ -dependent Phosphatidate Phosphatase Enzyme*. <i>Journal of Biological Chemistry</i> , 2006, 281, 9210-9218.	3.4	481
2	Roles of phosphatidate phosphatase enzymes in lipid metabolism. <i>Trends in Biochemical Sciences</i> , 2006, 31, 694-699.	7.5	249
3	Regulation of Phospholipid Synthesis in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Annual Review of Biochemistry</i> , 2011, 80, 859-883.	11.1	216
4	Control of Phospholipid Synthesis by Phosphorylation of the Yeast Lipin Pah1p/Smp2p Mg ²⁺ -dependent Phosphatidate Phosphatase. <i>Journal of Biological Chemistry</i> , 2006, 281, 34537-34548.	3.4	188
5	Phosphatidic Acid Phosphatase, a Key Enzyme in the Regulation of Lipid Synthesis. <i>Journal of Biological Chemistry</i> , 2009, 284, 2593-2597.	3.4	175
6	A phosphorylation-regulated amphipathic helix controls the membrane translocation and function of the yeast phosphatidate phosphatase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17539-17544.	7.1	172
7	An Unconventional Diacylglycerol Kinase That Regulates Phospholipid Synthesis and Nuclear Membrane Growth. <i>Journal of Biological Chemistry</i> , 2008, 283, 20433-20442.	3.4	153
8	The Cellular Functions of the Yeast Lipin Homolog Pah1p Are Dependent on Its Phosphatidate Phosphatase Activity. <i>Journal of Biological Chemistry</i> , 2007, 282, 37026-37035.	3.4	150
9	Phosphatidic acid mediates demyelination in <i>Lpin1</i> mutant mice. <i>Genes and Development</i> , 2008, 22, 1647-1661.	5.9	122
10	Characterization of the Human LPIN1-encoded Phosphatidate Phosphatase Isoforms. <i>Journal of Biological Chemistry</i> , 2010, 285, 14628-14638.	3.4	120
11	The brown adipocyte protein CIDEA promotes lipid droplet fusion via a phosphatidic acid-binding amphipathic helix. <i>ELife</i> , 2015, 4, e07485.	6.0	118
12	Phosphatidate Phosphatase Activity Plays Key Role in Protection against Fatty Acid-induced Toxicity in Yeast. <i>Journal of Biological Chemistry</i> , 2011, 286, 29074-29085.	3.4	113
13	Phosphorylation of Phosphatidate Phosphatase Regulates Its Membrane Association and Physiological Functions in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 1486-1498.	3.4	106
14	Temporal and Spatial Regulation of the Phosphatidate Phosphatases Lipin 1 and 2. <i>Journal of Biological Chemistry</i> , 2008, 283, 29166-29174.	3.4	99
15	Pho85p-Pho80p Phosphorylation of Yeast Pah1p Phosphatidate Phosphatase Regulates Its Activity, Location, Abundance, and Function in Lipid Metabolism. <i>Journal of Biological Chemistry</i> , 2012, 287, 11290-11301.	3.4	89
16	Regulation of lipid droplet and membrane biogenesis by the acidic tail of the phosphatidate phosphatase Pah1p. <i>Molecular Biology of the Cell</i> , 2013, 24, 2124-2133.	2.1	87
17	Characterization of the Yeast DKG1-encoded CTP-dependent Diacylglycerol Kinase. <i>Journal of Biological Chemistry</i> , 2008, 283, 20443-20453.	3.4	82
18	The <i>Saccharomyces cerevisiae</i> LSB6 Gene Encodes Phosphatidylinositol 4-Kinase Activity. <i>Journal of Biological Chemistry</i> , 2002, 277, 47709-47718.	3.4	75

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19	Protein Kinase A-mediated Phosphorylation of Pah1p Phosphatidate Phosphatase Functions in Conjunction with the Pho85p-Pho80p and Cdc28p-Cyclin B Kinases to Regulate Lipid Synthesis in Yeast. <i>Journal of Biological Chemistry</i> , 2012, 287, 33364-33376.	3.4	70
20	Phosphorylation Regulates the Ubiquitin-independent Degradation of Yeast Pah1 Phosphatidate Phosphatase by the 20S Proteasome. <i>Journal of Biological Chemistry</i> , 2015, 290, 11467-11478.	3.4	55
21	Fat-regulating phosphatidic acid phosphatase: a review of its roles and regulation in lipid homeostasis. <i>Journal of Lipid Research</i> , 2019, 60, 2-6.	4.2	53
22	The <i>Saccharomyces cerevisiae</i> Actin Patch Protein App1p Is a Phosphatidate Phosphatase Enzyme. <i>Journal of Biological Chemistry</i> , 2012, 287, 40186-40196.	3.4	48
23	Yeast Nem1-Spo7 Protein Phosphatase Activity on Pah1 Phosphatidate Phosphatase Is Specific for the Pho85-Pho80 Protein Kinase Phosphorylation Sites. <i>Journal of Biological Chemistry</i> , 2014, 289, 34699-34708.	3.4	48
24	Altered Lipid Synthesis by Lack of Yeast Pah1 Phosphatidate Phosphatase Reduces Chronological Life Span. <i>Journal of Biological Chemistry</i> , 2015, 290, 25382-25394.	3.4	47
25	Fat storage-inducing transmembrane (FIT or FITM) proteins are related to lipid phosphatase/phosphotransferase enzymes. <i>Microbial Cell</i> , 2018, 5, 88-103.	3.2	46
26	Cross-talk Phosphorylations by Protein Kinase C and Pho85p-Pho80p Protein Kinase Regulate Pah1p Phosphatidate Phosphatase Abundance in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 18818-18830.	3.4	44
27	Phosphorylation of Yeast Pah1 Phosphatidate Phosphatase by Casein Kinase II Regulates Its Function in Lipid Metabolism. <i>Journal of Biological Chemistry</i> , 2016, 291, 9974-9990.	3.4	41
28	Expression of Human CTP Synthetase in <i>Saccharomyces cerevisiae</i> Reveals Phosphorylation by Protein Kinase A. <i>Journal of Biological Chemistry</i> , 2005, 280, 38328-38336.	3.4	39
29	Phosphatidate-mediated regulation of lipid synthesis at the nuclear/endoplasmic reticulum membrane. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158434.	2.4	39
30	Yeast PAH1-encoded phosphatidate phosphatase controls the expression of CHO1-encoded phosphatidylserine synthase for membrane phospholipid synthesis. <i>Journal of Biological Chemistry</i> , 2017, 292, 13230-13242.	3.4	36
31	Vacuole Membrane Topography of the DPP1-encoded Diacylglycerol Pyrophosphate Phosphatase Catalytic Site from <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 5338-5345.	3.4	33
32	A Hypomorphic Mutation in Lpin1 Induces Progressively Improving Neuropathy and Lipodystrophy in the Rat. <i>Journal of Biological Chemistry</i> , 2011, 286, 26781-26793.	3.4	30
33	Redundant roles of the phosphatidate phosphatase family in triacylglycerol synthesis in human adipocytes. <i>Diabetologia</i> , 2016, 59, 1985-1994.	6.3	25
34	Phosphorylation of Dgk1 Diacylglycerol Kinase by Casein Kinase II Regulates Phosphatidic Acid Production in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 26455-26467.	3.4	20
35	Phosphorylation of lipid metabolic enzymes by yeast protein kinase C requires phosphatidylserine and diacylglycerol. <i>Journal of Lipid Research</i> , 2017, 58, 742-751.	4.2	20
36	Host Pah1p phosphatidate phosphatase limits viral replication by regulating phospholipid synthesis. <i>PLoS Pathogens</i> , 2018, 14, e1006988.	4.7	20

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37	A conserved tryptophan within the WRDPLVDID domain of yeast Pah1 phosphatidate phosphatase is required for its in vivo function in lipid metabolism. <i>Journal of Biological Chemistry</i> , 2017, 292, 19580-19589.	3.4	17
38	Assaying Lipid Phosphate Phosphatase Activities. , 2004, 284, 209-216.		16
39	Phosphatidate phosphatase regulates membrane phospholipid synthesis via phosphatidylserine synthase. <i>Advances in Biological Regulation</i> , 2018, 67, 49-58.	2.3	16
40	Protein kinase A phosphorylates the Nem1-Spo7 protein phosphatase complex that regulates the phosphorylation state of the phosphatidate phosphatase Pah1 in yeast. <i>Journal of Biological Chemistry</i> , 2018, 293, 15801-15814.	3.4	16
41	Yck1 casein kinase I regulates the activity and phosphorylation of Pah1 phosphatidate phosphatase from <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 18256-18268.	3.4	14
42	The Spo7 sequence LLI is required for Nem1-Spo7/Pah1 phosphatase cascade function in yeast lipid metabolism. <i>Journal of Biological Chemistry</i> , 2020, 295, 11473-11485.	3.4	13
43	Casein kinase II-mediated phosphorylation of lipin 1 phosphatidate phosphatase at Ser-285 and Ser-287 regulates its interaction with 14-3-3 protein. <i>Journal of Biological Chemistry</i> , 2019, 294, 2365-2374.	3.4	11
44	Tips on the analysis of phosphatidic acid by the fluorometric coupled enzyme assay. <i>Analytical Biochemistry</i> , 2017, 526, 69-70.	2.4	10
45	Phosphorylation-mediated regulation of the Nem1-Spo7/Pah1 phosphatase cascade in yeast lipid synthesis. <i>Advances in Biological Regulation</i> , 2022, 84, 100889.	2.3	9
46	Glycogen synthase kinase homolog Rim11 regulates lipid synthesis through the phosphorylation of Pah1 phosphatidate phosphatase in yeast. <i>Journal of Biological Chemistry</i> , 2022, 298, 102221.	3.4	9
47	Protein kinase C mediates the phosphorylation of the Nem1-Spo7 protein phosphatase complex in yeast. <i>Journal of Biological Chemistry</i> , 2019, 294, 15997-16009.	3.4	8
48	Mutant phosphatidate phosphatase Pah1-W637A exhibits altered phosphorylation, membrane association, and enzyme function in yeast. <i>Journal of Biological Chemistry</i> , 2022, 298, 101578.	3.4	6
49	A review of phosphatidate phosphatase assays. <i>Journal of Lipid Research</i> , 2020, 61, 1556-1564.	4.2	3
50	Spatiotemporal Activation of Yeast Lipin Pah1 and Phospholipid Remodelling during Lipid Droplet Formation. <i>FASEB Journal</i> , 2015, 29, 715.4.	0.5	0
51	Yeast Pah1 Phosphatidate Phosphatase Regulates the Expression of the CHO1 -encoded Phosphatidylserine Synthase for Membrane Phospholipid Synthesis. <i>FASEB Journal</i> , 2015, 29, 568.14.	0.5	0