

Robert J Deschenes

List of Publications by Year in descending order

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65
papers

6,056
citations

117571

34
h-index

143943

57
g-index

66
all docs

66
docs citations

66
times ranked

4449
citing authors

#	ARTICLE	IF	CITATIONS
1	Palmitoylation: policing protein stability and traffic. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 74-84.	16.1	919
2	Identification of a Ras Palmitoyltransferase in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 41268-41273.	1.6	398
3	Posttranslational modification of the Ha-ras oncogene protein: evidence for a third class of protein carboxyl methyltransferases.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 4643-4647.	3.3	392
4	Thematic review series: Lipid Posttranslational Modifications. Protein palmitoylation by a family of DHHC protein S-acyltransferases. <i>Journal of Lipid Research</i> , 2006, 47, 1118-1127.	2.0	385
5	Cloning and sequence analysis of a cDNA encoding rat preprocholecystokinin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984, 81, 726-730.	3.3	329
6	DHHC9 and GCP16 Constitute a Human Protein Fatty Acyltransferase with Specificity for H- and N-Ras. <i>Journal of Biological Chemistry</i> , 2005, 280, 31141-31148.	1.6	295
7	Vectors for the inducible overexpression of glutathione S-transferase fusion proteins in yeast. <i>Yeast</i> , 1993, 9, 715-722.	0.8	289
8	SRV2, a gene required for RAS activation of adenylate cyclase in yeast. <i>Cell</i> , 1990, 61, 329-340.	13.5	257
9	The Function of Ras Genes in <i>Saccharomyces Cerevisiae</i> . <i>Advances in Cancer Research</i> , 1990, 54, 79-139.	1.9	201
10	New Insights into the Mechanisms of Protein Palmitoylation. <i>Biochemistry</i> , 2003, 42, 4311-4320.	1.2	192
11	Erf2, a Novel Gene Product That Affects the Localization and Palmitoylation of Ras2 in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 1999, 19, 6775-6787.	1.1	164
12	The yeast histidine protein kinase, Sln1p, mediates phosphotransfer to two response regulators, Ssk1p and Skn7p. <i>EMBO Journal</i> , 1998, 17, 6952-6962.	3.5	162
13	2-Bromopalmitate and 2-(2-hydroxy-5-nitro-benzylidene)-benzo[b]thiophen-3-one inhibit DHHC-mediated palmitoylation in vitro. <i>Journal of Lipid Research</i> , 2009, 50, 233-242.	2.0	157
14	Differential regulation of FUS3 MAP kinase by tyrosine-specific phosphatases PTP2/PTP3 and dual-specificity phosphatase MSG5 in <i>Saccharomyces cerevisiae</i> .. <i>Genes and Development</i> , 1997, 11, 1690-1702.	2.7	141
15	Normal mitochondrial structure and genome maintenance in yeast requires the dynamin-like product of the MGM1 gene. <i>Current Genetics</i> , 1993, 24, 141-148.	0.8	135
16	Mutational Analysis of <i>Saccharomyces cerevisiae</i> Erf2 Reveals a Two-step Reaction Mechanism for Protein Palmitoylation by DHHC Enzymes*. <i>Journal of Biological Chemistry</i> , 2010, 285, 38104-38114.	1.6	132
17	A gene encoding rat cholecystokinin. Isolation, nucleotide sequence, and promoter activity. <i>Journal of Biological Chemistry</i> , 1985, 260, 1280-6.	1.6	98
18	The Eukaryotic Two-Component Histidine Kinase Sln1p Regulates OCH1 via the Transcription Factor, Skn7p. <i>Molecular Biology of the Cell</i> , 2002, 13, 412-424.	0.9	93

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19	Model organisms lead the way to protein palmitoyltransferases. <i>Journal of Cell Science</i> , 2004, 117, 521-526.	1.2	90
20	<i>Saccharomyces cerevisiae</i> Histidine Phosphotransferase Ypd1p Shuttles between the Nucleus and Cytoplasm for SLN1 -Dependent Phosphorylation of Ssk1p and Skn7p. <i>Eukaryotic Cell</i> , 2003, 2, 1304-1314.	3.4	78
21	Palmitoylation and Plasma Membrane Localization of Ras2p by a Nonclassical Trafficking Pathway in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2003, 23, 6574-6584.	1.1	75
22	Intracellular Glycerol Levels Modulate the Activity of Sln1p, a <i>Saccharomyces cerevisiae</i> Two-component Regulator. <i>Journal of Biological Chemistry</i> , 1999, 274, 360-367.	1.6	72
23	Erf4p and Erf2p Form an Endoplasmic Reticulum-associated Complex Involved in the Plasma Membrane Localization of Yeast Ras Proteins. <i>Journal of Biological Chemistry</i> , 2002, 277, 49352-49359.	1.6	70
24	Evidence for an S-farnesylcysteine methyl ester at the carboxyl terminus of the <i>Saccharomyces cerevisiae</i> RAS2 protein. <i>Biochemistry</i> , 1990, 29, 9651-9659.	1.2	68
25	Akr1p-dependent Palmitoylation of Yck2p Yeast Casein Kinase 1 Is Necessary and Sufficient for Plasma Membrane Targeting. <i>Journal of Biological Chemistry</i> , 2004, 279, 27138-27147.	1.6	59
26	Palmitoyl acyltransferase DHHC21 mediates endothelial dysfunction in systemic inflammatory response syndrome. <i>Nature Communications</i> , 2016, 7, 12823.	5.8	55
27	Sequence analysis of a cDNA coding for a pancreatic precursor to somatostatin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981, 78, 6694-6698.	3.3	52
28	Plasma Membrane Localization of Ras Requires Class C Vps Proteins and Functional Mitochondria in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2006, 26, 3243-3255.	1.1	52
29	Activated Alleles of Yeast SLN1 Increase Mcm1-dependent Reporter Gene Expression and Diminish Signaling through the Hog1 Osmosensing Pathway. <i>Journal of Biological Chemistry</i> , 1997, 272, 13365-13371.	1.6	49
30	A cytoplasmic coiled-coil domain is required for histidine kinase activity of the yeast osmosensor, SLN1. <i>Molecular Microbiology</i> , 2002, 43, 459-473.	1.2	48
31	Mutations in the X-linked Intellectual Disability Gene, zDHHC9, Alter Autopalmitoylation Activity by Distinct Mechanisms. <i>Journal of Biological Chemistry</i> , 2014, 289, 18582-18592.	1.6	46
32	The Erf4 Subunit of the Yeast Ras Palmitoyl Acyltransferase Is Required for Stability of the Acyl-Erf2 Intermediate and Palmitoyl Transfer to a Ras2 Substrate. <i>Journal of Biological Chemistry</i> , 2012, 287, 34337-34348.	1.6	41
33	The Essential Transcription Factor, Mcm1, Is a Downstream Target of Sln1, a Yeast "Two-component" Regulator. <i>Journal of Biological Chemistry</i> , 1995, 270, 8739-8743.	1.6	38
34	Acylation and prenylation of proteins. <i>Current Opinion in Cell Biology</i> , 1990, 2, 1108-1113.	2.6	37
35	Essential Functions of Protein Tyrosine Phosphatases Ptp2 and Ptp3 and Rim11 Tyrosine Phosphorylation in <i>Saccharomyces cerevisiae</i> Meiosis and Sporulation. <i>Molecular Biology of the Cell</i> , 2000, 11, 663-676.	0.9	33
36	Farnesylation and Proteolysis Are Sequential, But Distinct Steps in the CaaX Box Modification Pathway. <i>Archives of Biochemistry and Biophysics</i> , 1995, 318, 113-121.	1.4	31

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37	A fluorescence-based assay to monitor autopalmitylation of zDHHC proteins applicable to high-throughput screening. <i>Analytical Biochemistry</i> , 2014, 460, 1-8.	1.1	30
38	Antifungal Properties and Target Evaluation of Three Putative Bacterial Histidine Kinase Inhibitors. <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1700-1703.	1.4	29
39	Modulation of Yeast Sln1 Kinase Activity by the Ccw12 Cell Wall Protein. <i>Journal of Biological Chemistry</i> , 2008, 283, 1962-1973.	1.6	28
40	Microfluidic device for trapping and monitoring three dimensional multicell spheroids using electrical impedance spectroscopy. <i>Biomicrofluidics</i> , 2013, 7, 34108.	1.2	27
41	Primary structural comparison of the preprohormones cholecystokinin and gastrin. <i>FEBS Letters</i> , 1985, 182, 135-138.	1.3	26
42	Role for the Ran Binding Protein, Mog1p, in <i>Saccharomyces cerevisiae</i> SLN1-SKN7 Signal Transduction. <i>Eukaryotic Cell</i> , 2004, 3, 1544-1556.	3.4	24
43	Identification of SARS-CoV-2 Spike Palmitylation Inhibitors That Results in Release of Attenuated Virus with Reduced Infectivity. <i>Viruses</i> , 2022, 14, 531.	1.5	22
44	Analysis of the diffusion of Ras2 in <i>Saccharomyces cerevisiae</i> using fluorescence recovery after photobleaching. <i>Physical Biology</i> , 2010, 7, 026011.	0.8	20
45	Identification of Protein Palmitylation Inhibitors from a Scaffold Ranking Library. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2016, 19, 262-274.	0.6	19
46	Expression of the Cholecystokinin Gene in Rat Brain during Development. <i>Developmental Neuroscience</i> , 1987, 9, 61-67.	1.0	17
47	Physicochemical sequence characteristics that influence <i>S</i> -palmitylation propensity. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 2337-2350.	2.0	15
48	Purification and characterization of recombinant protein acyltransferases. <i>Methods</i> , 2006, 40, 143-150.	1.9	13
49	Local anesthetics noncompetitively inhibit terbium binding to the exterior surface of nerve membrane vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1981, 649, 515-520.	1.4	10
50	Terbium binding to axonal membrane vesicles from lobster (<i>Homarus Americanus</i>) peripheral nerve. A probe of calcium binding sites. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1981, 641, 166-172.	1.4	9
51	[7] Characterization of protein prenylation in <i>Saccharomyces cerevisiae</i> . <i>Methods in Enzymology</i> , 1995, 250, 68-78.	0.4	8
52	Altered Phosphotransfer in an Activated Mutant of the <i>Saccharomyces cerevisiae</i> Two-Component Osmosensor Sln1p. <i>Eukaryotic Cell</i> , 2002, 1, 174-180.	3.4	7
53	A reevaluation of calcium-local anesthetic antagonism. <i>Experimental Neurology</i> , 1982, 76, 547-552.	2.0	6
54	Functional Consequence of Mutating Conserved Residues of the Yeast Farnesyl-Protein Transferase β -Subunit Ram1(Dpr1). <i>Biochemistry</i> , 1997, 36, 15932-15939.	1.2	4

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55	An amino terminal prosequence is required for efficient synthesis of <i>S. cerevisiae</i> a-factor. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1997, 1356, 23-34.	1.9	3
56	Modulation of Cholecystokinin Gene Expression. <i>Annals of the New York Academy of Sciences</i> , 1985, 448, 53-60.	1.8	2
57	In Vitro Assays to Monitor the Enzymatic Activities of zDHHC Protein Acyltransferases. <i>Methods in Molecular Biology</i> , 2019, 2009, 169-177.	0.4	2
58	Expression of MFA1 and STE6 is sufficient for mating type-independent secretion of yeast a-factor, but not mating competence. <i>Current Genetics</i> , 1999, 35, 1-7.	0.8	0
59	Diffusion and Exchange of Non-Integral Membrane Associated Fluorophores During Fluorescence Recovery After Photobleaching with the Confocal Laser Scanning Microscope: ROI Size Analysis of EGFP:Ras2 Plasma Membrane Diffusion in <i>Saccharomyces cerevisiae</i> . <i>Biophysical Journal</i> , 2009, 96, 32a-33a.	0.2	0
60	Protein Modifications Protein Palmitoylation. , 2021, , 182-185.		0
61	Palmitoylation of SARS-CoV 2 Spike glycoprotein is important for viral infectivity and pathogenicity. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
62	Protein Palmitoylation. , 2004, , 532-535.		0
63	Construction of a physical model of a farnesyltransferase-inhibitor complex: Insight into a novel therapy for Hutchinson-Guilford Progeria. <i>FASEB Journal</i> , 2008, 22, 342-342.	0.2	0
64	Identifying Autopalmitoylation Inhibitors Through Scaffold Ranking. <i>FASEB Journal</i> , 2015, 29, 570.12.	0.2	0
65	Mutations in the zDHHC9 protein palmitoyltransferase result in X-linked Intellectual Disability (XLID) by distinct mechanisms. <i>FASEB Journal</i> , 2019, 33, 632.10.	0.2	0