Roger Schneiter

List of Publications by Year
in descending order

93 papers	7,355 citations	94433 37 h-index	58581 82 g-index
99 all docs	99 docs citations	99 times ranked	8909 citing authors

#	Article	IF	Citations
1	Bid, Bax, and Lipids Cooperate to Form Supramolecular Openings in the Outer Mitochondrial Membrane. Cell, 2002, 111, 331-342.	28.9	1,337
2	Lipid signalling in disease. Nature Reviews Molecular Cell Biology, 2008, 9, 162-176.	37.0	1,091
3	Electrospray Ionization Tandem Mass Spectrometry (Esi-Ms/Ms) Analysis of the Lipid Molecular Species Composition of Yeast Subcellular Membranes Reveals Acyl Chain-Based Sorting/Remodeling of Distinct Molecular Species En Route to the Plasma Membrane. Journal of Cell Biology, 1999, 146, 741-754.	5.2	449
4	Lipid droplets are functionally connected to the endoplasmic reticulum in Saccharomyces cerevisiae. Journal of Cell Science, 2011, 124, 2424-2437.	2.0	356
5	Roles of Phosphatidylethanolamine and of Its Several Biosynthetic Pathways inSaccharomyces cerevisiae. Molecular Biology of the Cell, 2001, 12, 997-1007.	2.1	245
6	Orm1 and Orm2 are conserved endoplasmic reticulum membrane proteins regulating lipid homeostasis and protein quality control. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5851-5856.	7.1	245
7	The sterolâ€binding activity of PATHOGENESISâ€RELATED PROTEIN 1 reveals the mode of action of an antimicrobial protein. Plant Journal, 2017, 89, 502-509.	5.7	156
8	Architecture of Lipid Droplets in Endoplasmic Reticulum Is Determined by Phospholipid Intrinsic Curvature. Current Biology, 2018, 28, 915-926.e9.	3.9	148
9	Depletion of Acyl-Coenzyme A-Binding Protein Affects Sphingolipid Synthesis and Causes Vesicle Accumulation and Membrane Defects inSaccharomyces cerevisiae. Molecular Biology of the Cell, 2001, 12, 1147-1160.	2.1	128
10	The Saccharomyces cerevisiae YLL012/YEH1, YLR020/YEH2, and TGL1 Genes Encode a Novel Family of Membrane-Anchored Lipases That Are Required for Steryl Ester Hydrolysis. Molecular and Cellular Biology, 2005, 25, 1655-1668.	2.3	124
11	The Sur7p Family Defines Novel Cortical Domains in Saccharomyces cerevisiae, Affects Sphingolipid Metabolism, and Is Involved in Sporulation. Molecular and Cellular Biology, 2002, 22, 927-934.	2.3	112
12	A Specific Structural Requirement for Ergosterol in Long-chain Fatty Acid Synthesis Mutants Important for Maintaining Raft Domains in Yeast. Molecular Biology of the Cell, 2002, 13, 4414-4428.	2.1	112
13	Pathogen-Related Yeast (PRY) proteins and members of the CAP superfamily are secreted sterol-binding proteins. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16882-16887.	7.1	112
14	Mitochondrial Outer Membrane Proteins Assist Bid in Bax-mediated Lipidic Pore Formation. Molecular Biology of the Cell, 2009, 20, 2276-2285.	2.1	107
15	Expression of oleosin and perilipins in yeast promote formation of lipid droplets from the endoplasmatic reticulum. Journal of Cell Science, 2013, 126, 5198-209.	2.0	90
16	Mechanisms of sterol uptake and transport in yeast. Journal of Steroid Biochemistry and Molecular Biology, 2012, 129, 70-78.	2.5	89
17	An acetylation/deacetylation cycle controls the export of sterols and steroids from S. cerevisiae. EMBO Journal, 2007, 26, 5109-5119.	7.8	87
18	Synthesis of Sphingolipids with Very Long Chain Fatty Acids but Not Ergosterol Is Required for Routing of Newly Synthesized Plasma Membrane ATPase to the Cell Surface of Yeast. Journal of Biological Chemistry, 2005, 280, 22515-22522.	3.4	86

#	Article	IF	Citations
19	Identification and biophysical characterization of a very-long-chain-fatty-acid-substituted phosphatidylinositol in yeast subcellular membranes. Biochemical Journal, 2004, 381, 941-949.	3.7	85
20	Organelle Structure, Function, and Inheritance in Yeast: A Role for Fatty Acid Synthesis?. Cell, 1997, 88, 431-434.	28.9	83
21	Elo1p-Dependent Carboxy-Terminal Elongation of C14:1Î”9 to C16:1Î”11 Fatty Acids inSaccharomyces cerevisiae. Journal of Bacteriology, 2000, 182, 3655-3660.	2.2	83
22	Very Long-chain Fatty Acid-containing Lipids rather than Sphingolipids per se Are Required for Raft Association and Stable Surface Transport of Newly Synthesized Plasma Membrane ATPase in Yeast. Journal of Biological Chemistry, 2006, 281, 34135-34145.	3.4	79
23	Regulation of sphingolipid synthesis via Orm1 and Orm2 in yeast. Journal of Cell Science, 2012, 125, 2428-35.	2.0	77
24	A Genomewide Screen Reveals a Role of Mitochondria in Anaerobic Uptake of Sterols in Yeast. Molecular Biology of the Cell, 2006, 17, 90-103.	2.1	75
25	Acyl-CoA-binding protein, Acb1p, is required for normal vacuole function and ceramide synthesis in Saccharomyces cerevisiae. Biochemical Journal, 2004, 380, 907-918.	3.7	73
26	Integral membrane proteins Brr6 and Apq12 link assembly of the nuclear pore complex to lipid homeostasis in the endoplasmic reticulum. Journal of Cell Science, 2010, 123, 141-151.	2.0	72
27	Seipin and Nem1 establish discrete ER subdomains to initiate yeast lipid droplet biogenesis. Journal of Cell Biology, 2020, 219, .	5.2	68
28	The CAP protein superfamily: function in sterol export and fungal virulence. Biomolecular Concepts, 2013, 4, 519-525.	2.2	61
29	Differential Regulation of Ceramide Synthase Components LAC1 and LAG1 in Saccharomyces cerevisiae. Eukaryotic Cell, 2004, 3, 880-892.	3.4	60
30	Brave little yeast, please guide us to Thebes: sphingolipid function in S. cerevisiae. BioEssays, 1999, 21, 1004-1010.	2.5	57
31	The Saccharomyces cerevisiae Hyperrecombination Mutant hpr1Î” Is Synthetically Lethal with Two Conditional Alleles of the Acetyl Coenzyme A Carboxylase Gene and Causes a Defect in Nuclear Export of Polyadenylated RNA. Molecular and Cellular Biology, 1999, 19, 3415-3422.	2.3	55
32	Pre-existing bilayer stresses modulate triglyceride accumulation in the ER versus lipid droplets. ELife, 2021, 10, .	6.0	55
33	TORC1 Regulates Pah1 Phosphatidate Phosphatase Activity via the Nem1/Spo7 Protein Phosphatase Complex. PLoS ONE, 2014, 9, e104194.	2.5	53
34	Seipin accumulates and traps diacylglycerols and triglycerides in its ring-like structure. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	52
35	A two-step method for the introduction of single or multiple defined point mutations into the genome ofSaccharomyces cerevisiae. Yeast, 2006, 23, 825-831.	1.7	46
36	Extraction of Yeast Lipids. , 2006, 313, 041-046.		43

#	Article	IF	Citations
37	Lipid-dependent surface transport of the proton pumping ATPase: A model to study plasma membrane biogenesis in yeast. Biochimie, 2007, 89, 249-254.	2.6	43
38	Mature lipid droplets are accessible to ER luminal proteins. Journal of Cell Science, 2016, 129, 3803-3815.	2.0	42
39	Secreted venom allergen-like proteins of helminths: Conserved modulators of host responses in animals and plants. PLoS Pathogens, 2018, 14, e1007300.	4.7	41
40	The topology of the triacylglycerol synthesizing enzyme Lro1 indicates that neutral lipids can be produced within the luminal compartment of the endoplasmatic reticulum: Implications for the biogenesis of lipid droplets. Communicative and Integrative Biology, 2011, 4, 781-784.	1.4	40
41	The pathogen-related yeast protein Pry1, a member of the CAP protein superfamily, is a fatty acid-binding protein. Journal of Biological Chemistry, 2017, 292, 8304-8314.	3.4	40
42	Sphingolipid accumulation causes mitochondrial dysregulation and cell death. Cell Death and Differentiation, 2017, 24, 2044-2053.	11.2	38
43	A Novel Cold-Sensitive Allele of the Rate-Limiting Enzyme of Fatty Acid Synthesis, Acetyl Coenzyme A Carboxylase, Affects the Morphology of the Yeast Vacuole through Acylation of Vac8p. Molecular and Cellular Biology, 2000, 20, 2984-2995.	2.3	37
44	Analysis of Yeast Lipids. , 2006, 313, 075-084.		37
45	Schistosoma mansonivenom allergen-like protein 4 (SmVAL4) is a novel lipid-binding SCP/TAPS protein that lacks the prototypical CAP motifs. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2186-2196.	2.5	36
46	Yeast Integral Membrane Proteins Apq12, Brl1, and Brr6 Form a Complex Important for Regulation of Membrane Homeostasis and Nuclear Pore Complex Biogenesis. Eukaryotic Cell, 2015, 14, 1217-1227.	3.4	36
47	The caveolin-binding motif of the pathogen-related yeast protein Pry1, a member of the CAP protein superfamily, is required for in vivo export of cholesteryl acetate. Journal of Lipid Research, 2014, 55, 883-894.	4.2	35
48	Molecular Identification of virilizer, a Gene Required for the Expression of the Sex-Determining Gene Sex-lethal in Drosophila melanogaster. Genetics, 2001, 157, 679-688.	2.9	34
49	Ypk1, the yeast orthologue of the human serum- and glucocorticoid-induced kinase, is required for efficient uptake of fatty acids. Journal of Cell Science, 2010, 123, 2218-2227.	2.0	33
50	Lipid-dependent Subcellular Relocalization of the Acyl Chain Desaturase in Yeast. Molecular Biology of the Cell, 2002, 13, 4429-4442.	2.1	31
51	Yeh1 Constitutes the Major Steryl Ester Hydrolase under Heme-Deficient Conditions in Saccharomyces cerevisiae. Eukaryotic Cell, 2006, 5, 1018-1025.	3.4	31
52	Membrane Rafts Are Involved in Intracellular Miconazole Accumulation in Yeast Cells. Journal of Biological Chemistry, 2009, 284, 32680-32685.	3.4	31
53	The yeastmic2mutant is defective in the formation of mannosyl-diinositolphosphorylceramide1. FEBS Letters, 1997, 411, 211-214.	2.8	30
54	Structural and functional characterization of the CAP domain of pathogen-related yeast 1 (Pry1) protein. Scientific Reports, 2016, 6, 28838.	3.3	30

#	Article	IF	Citations
55	Phospholipids: synthesis, sorting, subcellular traffic - the yeast approach. Trends in Cell Biology, 1996, 6, 260-266.	7.9	29
56	Intracellular sterol transport in eukaryotes, a connection to mitochondrial function?. Biochimie, 2007, 89, 255-259.	2.6	23
57	A Unique Junctional Interface at Contact Sites Between the Endoplasmic Reticulum and Lipid Droplets. Frontiers in Cell and Developmental Biology, 2021, 9, 650186.	3.7	23
58	The role of lipids in the biogenesis of integral membrane proteins. Applied Microbiology and Biotechnology, 2007, 73, 1224-1232.	3.6	22
59	The Cdc42 Effectors Ste20, Cla4, and Skm1 Down-Regulate the Expression of Genes Involved in Sterol Uptake by a Mitogen-activated Protein Kinase-independent Pathway. Molecular Biology of the Cell, 2009, 20, 4826-4837.	2.1	22
60	Retinyl esters form lipid droplets independently of triacylglycerol and seipin. Journal of Cell Biology, 2021, 220, .	5.2	22
61	Valproate Induces the Unfolded Protein Response by Increasing Ceramide Levels. Journal of Biological Chemistry, 2016, 291, 22253-22261.	3.4	20
62	Plant pathogenesisâ€“related proteins of the cacao fungal pathogen Moniliophthora perniciosa differ in their lipid-binding specificities. Journal of Biological Chemistry, 2017, 292, 20558-20569.	3.4	18
63	Heligmosomoides polygyrus Venom Allergen-like Protein-4 (HpVAL-4) is a sterol binding protein. International Journal for Parasitology, 2018, 48, 359-369.	3.1	18
64	The function of yeast <scp>CAP</scp> family proteins in lipid export, mating, and pathogen defense. FEBS Letters, 2018, 592, 1304-1311.	2.8	18
65	Crystal structure of Brugia malayi venom allergen-like protein-1 (BmVAL-1), a vaccine candidate for lymphatic filariasis. International Journal for Parasitology, 2018, 48, 371-378.	3.1	17
66	The nuclear GTPase cycle: promoting peripheralization?. Trends in Cell Biology, 1995, 5, 5-8.	7.9	14
67	The surface of lipid droplets constitutes a barrier for endoplasmic reticulum-resident integral membrane proteins. Journal of Cell Science, 2022, 135, .	2.0	13
68	Lipid droplets form a network interconnected by the endoplasmic reticulum through which their proteins equilibrate. Journal of Cell Science, 2022, 135, .	2.0	13
69	Integrating complex functions. Nucleus, 2010, 1, 387-392.	2.2	12
70	The Natural Diyne-Furan Fatty Acid EV-086 Is an Inhibitor of Fungal Delta-9 Fatty Acid Desaturation with Efficacy in a Model of Skin Dermatophytosis. Antimicrobial Agents and Chemotherapy, 2014, 58, 455-466.	3.2	12
71	Crystal Structure of MpPR-1i, a SCP/TAPS protein from Moniliophthora perniciosa, the fungus that causes Witchesâ€™ Broom Disease of Cacao. Scientific Reports, 2017, 7, 7818.	3.3	11
72	Chemical crosslinking and mass spectrometry to elucidate the topology of integral membrane proteins. PLoS ONE, 2017, 12, e0186840.	2.5	11

#	Article	IF	Citations
73	Lipid droplet biogenesis from specialized ER subdomains. Microbial Cell, 2020, 7, 218-221.	3.2	11
74	Seipin collaborates with the ER membrane to control the sites of lipid droplet formation. Current Opinion in Cell Biology, 2022, 75, 102070.	5.4	11
75	Following the flux of long-chain bases through the sphingolipid pathway in vivo using mass spectrometry. Journal of Lipid Research, 2016, 57, 906-915.	4.2	10
76	Lipid Droplet Biogenesis is Driven by Liquid-Liquid Phase Separation. SSRN Electronic Journal, 0, , .	0.4	10
77	Match-making for posaconazole through systems thinking. Trends in Parasitology, 2015, 31, 46-51.	3.3	9
78	Cholesterol-Binding by the Yeast CAP Family Member Pry1 Requires the Presence of an Aliphatic Side Chain on Cholesterol. Journal of Steroids & Hormonal Science, 2016, 7, .	0.1	9
79	Mitochondrial sphingosine-1-phosphate lyase is essential for phosphatidylethanolamine synthesis and survival of Trypanosoma brucei. Scientific Reports, 2020, 10, 8268.	3.3	8
80	Membrane-Interacting DNA Nanotubes Induce Cancer Cell Death. Nanomaterials, 2021, 11, 2003.	4.1	8
81	A Novel Sit4 Phosphatase Complex Is Involved in the Response to Ceramide Stress in Yeast. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-9.	4.0	6
82	Expression of perilipin 5 promotes lipid droplet formation in yeast. Communicative and Integrative Biology, 2015, 8, e1071728.	1.4	6
83	Chemogenetic E-MAP in Saccharomyces cerevisiae for Identification of Membrane Transporters Operating Lipid Flip Flop. PLoS Genetics, 2016, 12, e1006160.	3.5	6
84	Tools for the analysis of metabolic flux through the sphingolipid pathway. Biochimie, 2016, 130, 76-80.	2.6	6
85	A Ligand-Binding Assay to Measure the Affinity and Specificity of Sterol-Binding Proteins In Vitro. Methods in Molecular Biology, 2017, 1645, 361-368.	0.9	6
86	The yeast cell wall protein Pry3 inhibits mating through highly conserved residues within the CAP domain. Biology Open, 2020, 9, .	1.2	5
87	Prostate secretory protein 94 inhibits sterol binding and export by the mammalian CAP protein CRISP2 in a calcium-sensitive manner. Journal of Biological Chemistry, 2022, 298, 101600.	3.4	4
88	Accumulation of long-chain bases in yeast promotes their conversion to a long-chain base vinyl ether. Journal of Lipid Research, 2016, 57, 2040-2050.	4.2	3
89	Localization and functional characterization of the pathogenesis-related proteins Rbe1p and Rbt4p in Candida albicans. PLoS ONE, 2018, 13, e0201932.	2.5	3
90	Monitoring Sterol Uptake, Acetylation, and Export in Yeast. , 2009, 580, 221-232.		2

#	Article	IF	Citations
91	Crystal Structure of Borrelia turicatae protein, BTA121, a differentially regulated Âgene in the tick-mammalian transmission cycle of relapsing fever spirochetes. Scientific Reports, 2017, 7, 15310.	3.3	2
92	Necator americanus Ancylostoma Secreted Protein-2 (Na-ASP-2) Binds an Ascaroside (ascr#3) in Its Fatty Acid Binding Site. Frontiers in Chemistry, 2020, 8, 608296.	3.6	2
93	Brave little yeast, please guide us to Thebes: sphingolipid function in S. cerevisiae. BioEssays, 1999, 21, 1004-1010.	2.5	1