

Joost C M Holthuis

List of Publications by Year in descending order

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61
papers

5,425
citations

109137

35
h-index

123241

61
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67
all docs

67
docs citations

67
times ranked

5641
citing authors

#	ARTICLE	IF	CITATIONS
1	Ca ²⁺ -activated sphingomyelin scrambling and turnover mediate ESCRT-independent lysosomal repair. <i>Nature Communications</i> , 2022, 13, 1875.	5.8	35
2	Short Photoswitchable Ceramides Enable Optical Control of Apoptosis. <i>ACS Chemical Biology</i> , 2021, 16, 452-456.	1.6	22
3	Sphingomyelin Biosynthesis Is Essential for Phagocytic Signaling during <i>Mycobacterium tuberculosis</i> Host Cell Entry. <i>MBio</i> , 2021, 12, .	1.8	20
4	A switchable ceramide transfer protein for dissecting the mechanism of ceramide-induced mitochondrial apoptosis. <i>FEBS Letters</i> , 2020, 594, 3739-3750.	1.3	9
5	Ceramides bind VDAC2 to trigger mitochondrial apoptosis. <i>Nature Communications</i> , 2019, 10, 1832.	5.8	144
6	Unraveling the molecular principles by which ceramides commit cells to death. <i>Cell Stress</i> , 2019, 3, 280-283.	1.4	11
7	Optical manipulation of sphingolipid biosynthesis using photoswitchable ceramides. <i>ELife</i> , 2019, 8, .	2.8	27
8	A search for ceramide binding proteins using bifunctional lipid analogs yields CERT-related protein StarD7. <i>Journal of Lipid Research</i> , 2018, 59, 515-530.	2.0	42
9	Defective cortex glia plasma membrane structure underlies light-induced epilepsy in <i>cpe</i> mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8919-E8928.	3.3	31
10	Diverting CERT-mediated ceramide transport to mitochondria triggers Bax-dependent apoptosis. <i>Journal of Cell Science</i> , 2017, 130, 360-371.	1.2	52
11	ER residency of the ceramide phosphoethanolamine synthase SMSr relies on homotypic oligomerization mediated by its SAM domain. <i>Scientific Reports</i> , 2017, 7, 41290.	1.6	18
12	Membrane contact sites, ancient and central hubs of cellular lipid logistics. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1450-1458.	1.9	67
13	Switching head group selectivity in mammalian sphingolipid biosynthesis by active-site-engineering of sphingomyelin synthases. <i>Journal of Lipid Research</i> , 2017, 58, 962-973.	2.0	20
14	Ceramide phosphoethanolamine synthase SMSr is a target of caspase-6 during apoptotic cell death. <i>Bioscience Reports</i> , 2017, 37, .	1.1	5
15	Switching head group selectivity in mammalian sphingolipid biosynthesis by active-site engineering of sphingomyelin synthases. <i>Journal of Lipid Research</i> , 2016, 57, 1273-1285.	2.0	6
16	Monitoring Changes in the Oligomeric State of a Candidate Endoplasmic Reticulum (ER) Ceramide Sensor by Single-molecule Photobleaching. <i>Journal of Biological Chemistry</i> , 2016, 291, 24735-24746.	1.6	12
17	Inner workings and biological impact of phospholipid flippases. <i>Journal of Cell Science</i> , 2015, 128, 2021-2032.	1.2	64
18	Functional characterization of enzymes catalyzing ceramide phosphoethanolamine biosynthesis in mice. <i>Journal of Lipid Research</i> , 2015, 56, 821-835.	2.0	39

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19	Spingomyelin synthase-related protein SMSr is a suppressor of ceramide-induced mitochondrial apoptosis. <i>Journal of Cell Science</i> , 2014, 127, 445-54.	1.2	58
20	New frontiers in sphingolipid biology. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 645-646.	1.2	0
21	Lipid landscapes and pipelines in membrane homeostasis. <i>Nature</i> , 2014, 510, 48-57.	13.7	697
22	Fat & fabulous: Bifunctional lipids in the spotlight. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1022-1030.	1.2	55
23	In vivo Profiling and Visualization of Cellular Protein-Lipid Interactions Using Bifunctional Fatty Acids. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4033-4038.	7.2	114
24	Cellular microcompartments constitute general suborganellar functional units in cells. <i>Biological Chemistry</i> , 2013, 394, 151-161.	1.2	27
25	Ceramide Phosphoethanolamine Biosynthesis in <i>Drosophila</i> Is Mediated by a Unique Ethanolamine Phosphotransferase in the Golgi Lumen. <i>Journal of Biological Chemistry</i> , 2013, 288, 11520-11530.	1.6	60
26	Phosphatidylserine stimulation of Drs2p-Cdc50p lipid translocase dephosphorylation is controlled by phosphatidylinositol-4-phosphate. <i>Journal of Biological Chemistry</i> , 2012, 287, 44580.	1.6	1
27	Phosphatidylserine Stimulation of Drs2p-Cdc50p Lipid Translocase Dephosphorylation Is Controlled by Phosphatidylinositol-4-phosphate. <i>Journal of Biological Chemistry</i> , 2012, 287, 13249-13261.	1.6	54
28	Mapping Functional Interactions in a Heterodimeric Phospholipid Pump. <i>Journal of Biological Chemistry</i> , 2012, 287, 30529-30540.	1.6	33
29	Pumping lipids with P4-ATPases. <i>Biological Chemistry</i> , 2011, 392, 67-76.	1.2	23
30	Folding defects in P-type ATP 8B1 associated with hereditary cholestasis are ameliorated by 4-phenylbutyrate. <i>Hepatology</i> , 2010, 51, 286-296.	3.6	65
31	A flippase-independent function of ATP8B1, the protein affected in familial intrahepatic cholestasis type 1, is required for apical protein expression and microvillus formation in polarized epithelial cells. <i>Hepatology</i> , 2010, 51, 2049-2060.	3.6	75
32	A brake on lipid synthesis. <i>Nature</i> , 2010, 463, 1028-1029.	13.7	10
33	CDC50 Proteins Are Critical Components of the Human Class-1 P4-ATPase Transport Machinery. <i>Journal of Biological Chemistry</i> , 2010, 285, 40562-40572.	1.6	128
34	Tales and Mysteries of the Enigmatic Sphingomyelin Synthase Family. <i>Advances in Experimental Medicine and Biology</i> , 2010, 688, 72-85.	0.8	38
35	A P ₄ -ATPase Protein Interaction Network Reveals a Link between Aminophospholipid Transport and Phosphoinositide Metabolism. <i>Journal of Proteome Research</i> , 2010, 9, 833-842.	1.8	16
36	Sphingomyelin synthase SMS2 displays dual activity as ceramide phosphoethanolamine synthase. <i>Journal of Lipid Research</i> , 2009, 50, 2270-2277.	2.0	54

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37	Cdc50p Plays a Vital Role in the ATPase Reaction Cycle of the Putative Aminophospholipid Transporter Drs2p. <i>Journal of Biological Chemistry</i> , 2009, 284, 17956-17967.	1.6	117
38	Sphingomyelin synthase-related protein SMSr controls ceramide homeostasis in the ER. <i>Journal of Cell Biology</i> , 2009, 185, 1013-1027.	2.3	141
39	Membrane Contact Sites between Apicoplast and ER in <i>Toxoplasma gondii</i> Revealed by Electron Tomography. <i>Traffic</i> , 2009, 10, 1471-1480.	1.3	55
40	Mechanism and significance of P4 ATPase-catalyzed lipid transport: Lessons from a Na ⁺ /K ⁺ -pump. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 603-611.	1.2	46
41	Both Sphingomyelin Synthases SMS1 and SMS2 Are Required for Sphingomyelin Homeostasis and Growth in Human HeLa Cells*. <i>Journal of Biological Chemistry</i> , 2007, 282, 17537-17547.	1.6	183
42	On the origin of lipid asymmetry: the flip side of ion transport. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 654-661.	2.8	69
43	Loss of P4 ATPases Drs2p and Dnf3p Disrupts Aminophospholipid Transport and Asymmetry in Yeast Post-Golgi Secretory Vesicles. <i>Molecular Biology of the Cell</i> , 2006, 17, 1632-1642.	0.9	138
44	The CLN9 Protein, a Regulator of Dihydroceramide Synthase. <i>Journal of Biological Chemistry</i> , 2006, 281, 2784-2794.	1.6	76
45	The Multigenic Sphingomyelin Synthase Family. <i>Journal of Biological Chemistry</i> , 2006, 281, 29421-29425.	1.6	248
46	Lipid traffic: floppy drives and a superhighway. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 209-220.	16.1	442
47	HOR7, a Multicopy Suppressor of the Ca ²⁺ -induced Growth Defect in Sphingolipid Mannosyltransferase-deficient Yeast. <i>Journal of Biological Chemistry</i> , 2004, 279, 36390-36396.	1.6	10
48	Tracking down lipid flippases and their biological functions. <i>Journal of Cell Science</i> , 2004, 117, 805-813.	1.2	180
49	Protein Sorting in the Late Golgi of <i>Saccharomyces cerevisiae</i> Does Not Require Mannosylated Sphingolipids. <i>Journal of Biological Chemistry</i> , 2004, 279, 1020-1029.	1.6	32
50	Identification of a family of animal sphingomyelin synthases. <i>EMBO Journal</i> , 2004, 23, 33-44.	3.5	534
51	The elusive flippases. <i>Current Biology</i> , 2004, 14, R912-R913.	1.8	1
52	Sensing Membrane Curvature. <i>Developmental Cell</i> , 2003, 5, 821-822.	3.1	7
53	Drs2p-related P-type ATPases Dnf1p and Dnf2p Are Required for Phospholipid Translocation across the Yeast Plasma Membrane and Serve a Role in Endocytosis. <i>Molecular Biology of the Cell</i> , 2003, 14, 1240-1254.	0.9	338
54	Lipid microdomains, lipid translocation and the organization of intracellular membrane transport (Review). <i>Molecular Membrane Biology</i> , 2003, 20, 231-241.	2.0	84

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55	Lipid microdomains, lipid translocation and the organization of intracellular membrane transport (Review). <i>Molecular Membrane Biology</i> , 2003, 20, 231-41.	2.0	37
56	The Neuroendocrine Proteins Secretogranin II and III Are Regionally Conserved and Coordinately Expressed with Proopiomelanocortin in <i>Xenopus</i> Intermediate Pituitary. <i>Journal of Neurochemistry</i> , 2002, 66, 2248-2256.	2.1	40
57	The Organizing Potential of Sphingolipids in Intracellular Membrane Transport. <i>Physiological Reviews</i> , 2001, 81, 1689-1723.	13.1	291
58	Inhibition of the vacuolar H ⁺ -ATPase perturbs the transport, sorting, processing and release of regulated secretory proteins. <i>FEBS Journal</i> , 2000, 267, 5646-5654.	0.2	37
59	Biosynthesis of the vacuolar H ⁺ -ATPase accessory subunit Ac45 in <i>Xenopus</i> pituitary. <i>FEBS Journal</i> , 1999, 262, 484-491.	0.2	32
60	The Syntaxin Tlg1p Mediates Trafficking of Chitin Synthase III to Polarized Growth Sites in Yeast. <i>Molecular Biology of the Cell</i> , 1998, 9, 3383-3397.	0.9	106
61	Coordination of protein-DNA interactions in the promoters of human H4, H3, and H1 histone genes during the cell cycle, tumorigenesis, and development. <i>Journal of Cellular Physiology</i> , 1991, 148, 174-189.	2.0	30