Joost C M Holthuis

List of Publications by Year
in descending order

61 papers	5,425 citations	109137 35 h-index	123241 61 g-index
67 all docs	67 docs citations	67 times ranked	5641 citing authors

#	Article	IF	Citations
1	Lipid landscapes and pipelines in membrane homeostasis. Nature, 2014, 510, 48-57.	13.7	697
2	Identification of a family of animal sphingomyelin synthases. EMBO Journal, 2004, 23, 33-44.	3.5	534
3	Lipid traffic: floppy drives and a superhighway. Nature Reviews Molecular Cell Biology, 2005, 6, 209-220.	16.1	442
4	Drs2p-related P-type ATPases Dnf1p and Dnf2p Are Required for Phospholipid Translocation across the Yeast Plasma Membrane and Serve a Role in Endocytosis. Molecular Biology of the Cell, 2003, 14, 1240-1254.	0.9	338
5	The Organizing Potential of Sphingolipids in Intracellular Membrane Transport. Physiological Reviews, 2001, 81, 1689-1723.	13.1	291
6	The Multigenic Sphingomyelin Synthase Family. Journal of Biological Chemistry, 2006, 281, 29421-29425.	1.6	248
7	Both Sphingomyelin Synthases SMS1 and SMS2 Are Required for Sphingomyelin Homeostasis and Growth in Human HeLa Cells*. Journal of Biological Chemistry, 2007, 282, 17537-17547.	1.6	183
8	Tracking down lipid flippases and their biological functions. Journal of Cell Science, 2004, 117, 805-813.	1.2	180
9	Ceramides bind VDAC2 to trigger mitochondrial apoptosis. Nature Communications, 2019, 10, 1832.	5.8	144
10	Sphingomyelin synthase-related protein SMSr controls ceramide homeostasis in the ER. Journal of Cell Biology, 2009, 185, 1013-1027.	2.3	141
11	Loss of P4 ATPases Drs2p and Dnf3p Disrupts Aminophospholipid Transport and Asymmetry in Yeast Post-Golgi Secretory Vesicles. Molecular Biology of the Cell, 2006, 17, 1632-1642.	0.9	138
12	CDC50 Proteins Are Critical Components of the Human Class-1 P4-ATPase Transport Machinery. Journal of Biological Chemistry, 2010, 285, 40562-40572.	1.6	128
13	Cdc50p Plays a Vital Role in the ATPase Reaction Cycle of the Putative Aminophospholipid Transporter Drs2p. Journal of Biological Chemistry, 2009, 284, 17956-17967.	1.6	117
14	Inâ€…Vivo Profiling and Visualization of Cellular Proteinâ€"Lipid Interactions Using Bifunctional Fatty Acids. Angewandte Chemie - International Edition, 2013, 52, 4033-4038.	7.2	114
15	The Syntaxin Tlg1p Mediates Trafficking of Chitin Synthase III to Polarized Growth Sites in Yeast. Molecular Biology of the Cell, 1998, 9, 3383-3397.	0.9	106
16	Lipid microdomains, lipid translocation and the organization of intracellular membrane transport (Review). Molecular Membrane Biology, 2003, 20, 231-241.	2.0	84
17	The CLN9 Protein, a Regulator of Dihydroceramide Synthase. Journal of Biological Chemistry, 2006, 281, 2784-2794.	1.6	76
18	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. Hepatology, 2010, 51, 2049-2060.	3.6	75

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19	On the origin of lipid asymmetry: the flip side of ion transport. Current Opinion in Chemical Biology, 2007, 11, 654-661.	2.8	69
20	Membrane contact sites, ancient and central hubs of cellular lipid logistics. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1450-1458.	1.9	67
21	Folding defects in P-type ATP 8B1 associated with hereditary cholestasis are ameliorated by 4-phenylbutyrate. Hepatology, 2010, 51, 286-296.	3.6	65
22	Inner workings and biological impact of phospholipid flippases. Journal of Cell Science, 2015, 128, 2021-2032.	1.2	64
23	Ceramide Phosphoethanolamine Biosynthesis in Drosophila Is Mediated by a Unique Ethanolamine Phosphotransferase in the Golgi Lumen. Journal of Biological Chemistry, 2013, 288, 11520-11530.	1.6	60
24	Sphingomyelin synthase-related protein SMSr is a suppressor of ceramide-induced mitochondrial apoptosis. Journal of Cell Science, 2014, 127, 445-54.	1.2	58
25	Membrane Contact Sites between Apicoplast and ER in <i>Toxoplasma gondii</i> Revealed by Electron Tomography. Traffic, 2009, 10, 1471-1480.	1.3	55
26	Fat & fabulous: Bifunctional lipids in the spotlight. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1022-1030.	1.2	55
27	Sphingomyelin synthase SMS2 displays dual activity as ceramide phosphoethanolamine synthase. Journal of Lipid Research, 2009, 50, 2270-2277.	2.0	54
28	Phosphatidylserine Stimulation of Drs2pÂ·Cdc50p Lipid Translocase Dephosphorylation Is Controlled by Phosphatidylinositol-4-phosphate. Journal of Biological Chemistry, 2012, 287, 13249-13261.	1.6	54
29	Diverting CERT-mediated ceramide transport to mitochondria triggers Bax-dependent apoptosis. Journal of Cell Science, 2017, 130, 360-371.	1.2	52
30	Mechanism and significance of P4 ATPase-catalyzed lipid transport: Lessons from a Na+/K+-pump. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 603-611.	1.2	46
31	A search for ceramide binding proteins using bifunctional lipid analogs yields CERT-related protein StarD7. Journal of Lipid Research, 2018, 59, 515-530.	2.0	42
32	The Neuroendocrine Proteins Secretogranin II and III Are Regionally Conserved and Coordinately Expressed with Proopiomelanocortin in Xenopus Intermediate Pituitary. Journal of Neurochemistry, 2002, 66, 2248-2256.	2.1	40
33	Functional characterization of enzymes catalyzing ceramide phosphoethanolamine biosynthesis in mice. Journal of Lipid Research, 2015, 56, 821-835.	2.0	39
34	Tales and Mysteries of the Enigmatic Sphingomyelin Synthase Family. Advances in Experimental Medicine and Biology, 2010, 688, 72-85.	0.8	38
35	Inhibition of the vacuolar H+-ATPase perturbs the transport, sorting, processing and release of regulated secretory proteins. FEBS Journal, 2000, 267, 5646-5654.	0.2	37
36	Lipid microdomains, lipid translocation and the organization of intracellular membrane transport (Review). Molecular Membrane Biology, 2003, 20, 231-41.	2.0	37

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37	Ca2+-activated sphingomyelin scrambling and turnover mediate ESCRT-independent lysosomal repair. Nature Communications, 2022, 13, 1875.	5.8	35
38	Mapping Functional Interactions in a Heterodimeric Phospholipid Pump. Journal of Biological Chemistry, 2012, 287, 30529-30540.	1.6	33
39	Biosynthesis of the vacuolar H+-ATPase accessory subunit Ac45 in Xenopus pituitary. FEBS Journal, 1999, 262, 484-491.	0.2	32
40	Protein Sorting in the Late Golgi of Saccharomyces cerevisiae Does Not Require Mannosylated Sphingolipids. Journal of Biological Chemistry, 2004, 279, 1020-1029.	1.6	32
41	Defective cortex glia plasma membrane structure underlies light-induced epilepsy in <i>cpes</i> mutants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8919-E8928.	3.3	31
42	Coordination of protein-DNA interactions in the promoters of human H4, H3, and H1 histone genes during the cell cycle, tumorigenesis, and development. Journal of Cellular Physiology, 1991, 148, 174-189.	2.0	30
43	Cellular microcompartments constitute general suborganellar functional units in cells. Biological Chemistry, 2013, 394, 151-161.	1.2	27
44	Optical manipulation of sphingolipid biosynthesis using photoswitchable ceramides. ELife, 2019, 8, .	2.8	27
45	Pumping lipids with P4-ATPases. Biological Chemistry, 2011, 392, 67-76.	1.2	23
46	Short Photoswitchable Ceramides Enable Optical Control of Apoptosis. ACS Chemical Biology, 2021, 16, 452-456.	1.6	22
47	Switching head group selectivity in mammalian sphingolipid biosynthesis by active-site-engineering of sphingomyelin synthases. Journal of Lipid Research, 2017, 58, 962-973.	2.0	20
48	Sphingomyelin Biosynthesis Is Essential for Phagocytic Signaling during Mycobacterium tuberculosis Host Cell Entry. MBio, 2021, 12, .	1.8	20
49	ER residency of the ceramide phosphoethanolamine synthase SMSr relies on homotypic oligomerization mediated by its SAM domain. Scientific Reports, 2017, 7, 41290.	1.6	18
50	A P₄-ATPase Protein Interaction Network Reveals a Link between Aminophospholipid Transport and Phosphoinositide Metabolism. Journal of Proteome Research, 2010, 9, 833-842.	1.8	16
51	Monitoring Changes in the Oligomeric State of a Candidate Endoplasmic Reticulum (ER) Ceramide Sensor by Single-molecule Photobleaching. Journal of Biological Chemistry, 2016, 291, 24735-24746.	1.6	12
52	Unraveling the molecular principles by which ceramides commit cells to death. Cell Stress, 2019, 3, 280-283.	1.4	11
53	HOR7, a Multicopy Suppressor of the Ca2+-induced Growth Defect in Sphingolipid Mannosyltransferase-deficient Yeast. Journal of Biological Chemistry, 2004, 279, 36390-36396.	1.6	10
54	A brake on lipid synthesis. Nature, 2010, 463, 1028-1029.	13.7	10

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55	A switchable ceramide transfer protein for dissecting the mechanism of ceramideâ€induced mitochondrial apoptosis. FEBS Letters, 2020, 594, 3739-3750.	1.3	9
56	Sensing Membrane Curvature. Developmental Cell, 2003, 5, 821-822.	3.1	7
57	Switching head group selectivity in mammalian sphingolipid biosynthesis by active-site engineering of sphingomyelin synthases. Journal of Lipid Research, 2016, 57, 1273-1285.	2.0	6
58	Ceramide phosphoethanolamine synthase SMSr is a target of caspase-6 during apoptotic cell death. Bioscience Reports, 2017, 37, .	1.1	5
59	The elusive flippases. Current Biology, 2004, 14, R912-R913.	1.8	1
60	Phosphatidylserine stimulation of Drs2pÂ·Cdc50p lipid translocase dephosphorylation is controlled by phosphatidylinositol-4-phosphate.. Journal of Biological Chemistry, 2012, 287, 44580.	1.6	1
61	New frontiers in sphingolipid biology. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 645-646.	1.2	0