Kentaro Hanada

List of Publications by Year
in descending order

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116	7,984	44069	51608
papers	citations	48 h-index	86 g-index

120	120	120	7804
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular machinery for non-vesicular trafficking of ceramide. Nature, 2003, 426, 803-809.	27.8	916
2	Serine palmitoyltransferase, a key enzyme of sphingolipid metabolism. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2003, 1632, 16-30.	2.4	522
3	Efficient Trafficking of Ceramide from the Endoplasmic Reticulum to the Golgi Apparatus Requires a VAMP-associated Protein-interacting FFAT Motif of CERT. Journal of Biological Chemistry, 2006, 281, 30279-30288.	3.4	259
4	Initial steps of Shigella infection depend on the cholesterol/sphingolipid raft-mediated CD44-IpaB interaction. EMBO Journal, 2002, 21, 4449-4457.	7.8	215
5	Structural basis for specific lipid recognition by CERT responsible for nonvesicular trafficking of ceramide. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 488-493.	7.1	202
6	Chlamydia trachomatis Co-opts GBF1 and CERT to Acquire Host Sphingomyelin for Distinct Roles during Intracellular Development. PLoS Pathogens, 2011, 7, e1002198.	4.7	198
7	The Genome Landscape of the African Green Monkey Kidney-Derived Vero Cell Line. DNA Research, 2014, 21, 673-683.	3.4	198
8	CERT Mediates Intermembrane Transfer of Various Molecular Species of Ceramides. Journal of Biological Chemistry, 2005, 280, 6488-6495.	3.4	194
9	Involvement of sphingoid bases in mediating reactive oxygen intermediate production and programmed cell death in Arabidopsis. Cell Research, 2007, 17, 1030-1040.	12.0	190
10	Critical Role of Virion-Associated Cholesterol and Sphingolipid in Hepatitis C Virus Infection. Journal of Virology, 2008, 82, 5715-5724.	3.4	186
11	Both Sphingolipids and Cholesterol Participate in the Detergent Insolubility of Alkaline Phosphatase, a Glycosylphosphatidylinositol-anchored Protein, in Mammalian Membranes. Journal of Biological Chemistry, 1995, 270, 6254-6260.	3.4	181
12	Mammalian Cell Mutants Resistant to a Sphingomyelin-directed Cytolysin. Journal of Biological Chemistry, 1998, 273, 33787-33794.	3.4	178
13	Genetic Evidence for ATP-dependent Endoplasmic Reticulum-to-Golgi Apparatus Trafficking of Ceramide for Sphingomyelin Synthesis in Chinese Hamster Ovary Cells. Journal of Cell Biology, 1999, 144, 673-685.	5.2	160
14	Knockdown of autophagy-related gene decreases the production of infectious Hepatitis C virus particles. Autophagy, 2009, 5, 937-945.	9.1	159
15	CERT-mediated trafficking of ceramide. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 684-691.	2.4	152
16	Sphingolipid Metabolism and Interorganellar Transport: Localization of Sphingolipid Enzymes and Lipid Transfer Proteins. Traffic, 2015, 16, 101-122.	2.7	136
17	A Mammalian Homolog of the Yeast LCB1 Encodes a Component of Serine Palmitoyltransferase, the Enzyme Catalyzing the First Step in Sphingolipid Synthesis. Journal of Biological Chemistry, 1997, 272, 32108-32114.	3.4	132
18	A Novel Inhibitor of Ceramide Trafficking from the Endoplasmic Reticulum to the Site of Sphingomyelin Synthesis. Journal of Biological Chemistry, 2001, 276, 43994-44002.	3.4	126

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19	CERT and intracellular trafficking of ceramide. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 644-653.	2.4	124
20	Dihydroceramide accumulation mediates cytotoxic autophagy of cancer cells via autolysosome destabilization. Autophagy, 2016, 12, 2213-2229.	9.1	118
21	Host cell-derived sphingolipids are required for the intracellular growth of Chlamydia trachomatis. Cellular Microbiology, 2000, 2, 627-637.	2.1	107
22	Interorganelle Trafficking of Ceramide Is Regulated by Phosphorylation-dependent Cooperativity between the PH and START Domains of CERT. Journal of Biological Chemistry, 2007, 282, 17758-17766.	3.4	104
23	Purification of the Serine Palmitoyltransferase Complex Responsible for Sphingoid Base Synthesis by Using Affinity Peptide Chromatography Techniques. Journal of Biological Chemistry, 2000, 275, 8409-8415.	3.4	98
24	Evidence That Clustered Phosphocholine Head Groups Serve as Sites for Binding and Assembly of an Oligomeric Protein Pore. Journal of Biological Chemistry, 2006, 281, 26014-26021.	3.4	98
25	Consideration about negative controls for LC3 and expression vectors for four colored fluorescent protein-LC3 negative controls. Autophagy, 2008, 4, 131-134.	9.1	94
26	Reduction of Sphingomyelin Level without Accumulation of Ceramide in Chinese Hamster Ovary Cells Affects Detergent-resistant Membrane Domains and Enhances Cellular Cholesterol Efflux to Methyl-Î²-cyclodextrin. Journal of Biological Chemistry, 2000, 275, 34028-34034.	3.4	92
27	Specificity of inhibitors of serine palmitoyltransferase (SPT), a key enzyme in sphingolipid biosynthesis, in intact cells. Biochemical Pharmacology, 2000, 59, 1211-1216.	4.4	91
28	Localization, Topology, and Function of the LCB1 Subunit of Serine Palmitoyltransferase in Mammalian Cells. Journal of Biological Chemistry, 2003, 278, 4176-4183.	3.4	87
29	Phosphoregulation of the Ceramide Transport Protein CERT at Serine 315 in the Interaction with VAMP-associated Protein (VAP) for Inter-organelle Trafficking of Ceramide in Mammalian Cells. Journal of Biological Chemistry, 2014, 289, 10748-10760.	3.4	79
30	Modulation of Hepatitis C Virus Genome Replication by Glycosphingolipids and Four-Phosphate Adaptor Protein 2. Journal of Virology, 2014, 88, 12276-12295.	3.4	77
31	Modulation of Amyloid Precursor Protein Cleavage by Cellular Sphingolipids. Journal of Biological Chemistry, 2004, 279, 11984-11991.	3.4	76
32	Protein Phosphatase 2CÏµ Is an Endoplasmic Reticulum Integral Membrane Protein That Dephosphorylates the Ceramide Transport Protein CERT to Enhance Its Association with Organelle Membranes. Journal of Biological Chemistry, 2008, 283, 6584-6593.	3.4	75
33	Plasmodium falciparum Phospholipase C Hydrolyzing Sphingomyelin and Lysocholinephospholipids Is a Possible Target for Malaria Chemotherapy. Journal of Experimental Medicine, 2002, 195, 23-34.	8.5	73
34	Two sphingolipid transfer proteins, CERT and FAPP2: Their roles in sphingolipid metabolism. IUBMB Life, 2008, 60, 511-518.	3.4	73
35	Intracellular trafficking of ceramide by ceramide transfer protein. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2010, 86, 426-437.	3.8	71
36	Hereditary sensory neuropathy type 1 mutations confer dominant negative effects on serine palmitoyltransferase, critical for sphingolipid synthesis. Journal of Clinical Investigation, 2002, 110, 1301-1308.	8.2	71

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37	Discovery of the molecular machinery CERT for endoplasmic reticulum-to-Golgi trafficking of ceramide. Molecular and Cellular Biochemistry, 2006, 286, 23-31.	3.1	70
38	Crystal Structures of the CERT START Domain with Inhibitors Provide Insights into the Mechanism of Ceramide Transfer. Journal of Molecular Biology, 2010, 396, 245-251.	4.2	69
39	Structure, functions and regulation of CERT, a lipidâ€transfer protein for the delivery of ceramide at the ERâ€“Golgi membrane contact sites. FEBS Letters, 2019, 593, 2366-2377.	2.8	68
40	Sphingomyelin-dependence of cholesterol efflux mediated by ABCG1. Journal of Lipid Research, 2007, 48, 2377-2384.	4.2	65
41	Establishment of HeLa Cell Mutants Deficient in Sphingolipid-Related Genes Using TALENs. PLoS ONE, 2014, 9, e88124.	2.5	60
42	Enhanced ApoA-I-dependent Cholesterol Efflux by ABCA1 from Sphingomyelin-deficient Chinese Hamster Ovary Cells. Journal of Biological Chemistry, 2007, 282, 14868-14874.	3.4	59
43	Lipid transfer proteins rectify inter-organelle flux and accurately deliver lipids at membrane contact sites. Journal of Lipid Research, 2018, 59, 1341-1366.	4.2	58
44	Reconstitution of ATP- and Cytosol-dependent Transport of de Novo Synthesized Ceramide to the Site of Sphingomyelin Synthesis in Semi-intact Cells. Journal of Biological Chemistry, 2000, 275, 29938-29945.	3.4	56
45	Casein Kinase Iβ2 Down-Regulates Trafficking of Ceramide in the Synthesis of Sphingomyelin. Molecular Biology of the Cell, 2009, 20, 348-357.	2.1	56
46	Protein-sphingolipid interactions within cellular membranes. Journal of Lipid Research, 2008, 49, 251-262.	4.2	55
47	De Novo Ceramide Accumulation Due to Inhibition of Its Conversion to Complex Sphingolipids in Apoptotic Photosensitized Cells. Journal of Biological Chemistry, 2004, 279, 23238-23249.	3.4	54
48	Functional Analysis of .ALPHA.5.BETA.1 Integrin and Lipid Rafts in Invasion of Epithelial Cells by Porphyromonas gingivalis using Fluorescent Beads Coated with Bacterial Membrane Vesicles. Cell Structure and Function, 2008, 33, 123-132.	1.1	53
49	A CRISPR Screen Identifies LAPTM4A and TM9SF Proteins as Glycolipid-Regulating Factors. IScience, 2019, 11, 409-424.	4.1	53
50	Transmembrane BAX Inhibitor Motif Containing (TMBIM) Family Proteins Perturbs a trans-Golgi Network Enzyme, Gb3 Synthase, and Reduces Gb3 Biosynthesis. Journal of Biological Chemistry, 2010, 285, 35505-35518.	3.4	52
51	Structural Basis for the Golgi Association by the Pleckstrin Homology Domain of the Ceramide Trafficking Protein (CERT)*. Journal of Biological Chemistry, 2012, 287, 33706-33718.	3.4	51
52	Inhibitory effect of curcumin on mammalian phospholipase D activity. FEBS Letters, 1997, 417, 196-198.	2.8	45
53	Golgi maturationâ€dependent glycoenzyme recycling controls glycosphingolipid biosynthesis and cell growth via GOLPH3. EMBO Journal, 2021, 40, e107238.	7.8	45
54	Gs Signaling Is Intact after Disruption of Lipid Rafts. Biochemistry, 2001, 40, 15418-15423.	2.5	44

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55	Decreased Ceramide Transport Protein (CERT) Function Alters Sphingomyelin Production following UVB Irradiation. Journal of Biological Chemistry, 2008, 283, 16682-16692.	3.4	43
56	Co-evolution of sphingomyelin and the ceramide transport protein CERT. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 704-719.	2.4	43
57	Hereditary sensory neuropathy type 1 mutations confer dominant negative effects on serine palmitoyltransferase, critical for sphingolipid synthesis. Journal of Clinical Investigation, 2002, 110, 1301-1308.	8.2	43
58	Sphingolipid synthesis and scavenging in the intracellular apicomplexan parasite, Toxoplasma gondii. Molecular and Biochemical Parasitology, 2013, 187, 43-51.	1.1	39
59	Stereoselective Synthesis and Structureâ"Activity Relationship of Novel Ceramide Trafficking Inhibitors. (1R,3R)-N-(3-Hydroxy-1-hydroxymethyl-3-phenylpropyl)dodecanamide and Its Analogues. Journal of Medicinal Chemistry, 2003, 46, 3688-3695.	6.4	38
60	ABCA1, ABCG1, and ABCG4 Are Distributed to Distinct Membrane Meso-Domains and Disturb Detergent-Resistant Domains on the Plasma Membrane. PLoS ONE, 2014, 9, e109886.	2.5	38
61	Osh proteins regulate COPII-mediated vesicular transport of ceramide from the endoplasmic reticulum in budding yeast. Journal of Cell Science, 2014, 127, 376-87.	2.0	36
62	Inhibitory Effects of Caffeic Acid, a Coffee-Related Organic Acid, on the Propagation of Hepatitis C Virus. Japanese Journal of Infectious Diseases, 2015, 68, 268-275.	1.2	34
63	Exit of GPI-Anchored Proteins from the ER Differs in Yeast and Mammalian Cells. Traffic, 2010, 11, 1017-1033.	2.7	33
64	Functional reconstitution of sphingomyelin synthase in Chinese hamster ovary cell membranes. Lipids and Lipid Metabolism, 1991, 1086, 151-156.	2.6	30
65	Modulation of the activity of cytosolic phospholipase A2Î± (cPLA2Î±) by cellular sphingolipids and inhibition of cPLA2Î± by sphingomyelin. Journal of Lipid Research, 2010, 51, 720-728.	4.2	29
66	Limonoid Compounds Inhibit Sphingomyelin Biosynthesis by Preventing CERT Protein-dependent Extraction of Ceramides from the Endoplasmic Reticulum. Journal of Biological Chemistry, 2012, 287, 24397-24411.	3.4	29
67	Both Sphingomyelin and Cholesterol in the Host Cell Membrane Are Essential for Rubella Virus Entry. Journal of Virology, 2018, 92, .	3.4	29
68	Phosphoethanolamine Accumulation Protects Cancer Cells under Glutamine Starvation through Downregulation of PCYT2. Cell Reports, 2019, 29, 89-103.e7.	6.4	29
69	Glucosylceramide Contained in Koji Mold-Cultured Cereal Confers Membrane and Flavor Modification and Stress Tolerance to Saccharomyces cerevisiae during Coculture Fermentation. Applied and Environmental Microbiology, 2015, 81, 3688-3698.	3.1	27
70	Monoclonal Antibodies against Occludin Completely Prevented Hepatitis C Virus Infection in a Mouse Model. Journal of Virology, 2018, 92, .	3.4	27
71	Natural ligand-nonmimetic inhibitors of the lipid-transfer protein CERT. Communications Chemistry, 2019, 2, .	4.5	27
72	Targeting Cellular Squalene Synthase, an Enzyme Essential for Cholesterol Biosynthesis, Is a Potential Antiviral Strategy against Hepatitis C Virus. Journal of Virology, 2015, 89, 2220-2232.	3.4	24

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73	Identification of Characteristic Genomic Markers in Human Hepatoma HuH-7 and Huh7.5.1-8 Cell Lines. Frontiers in Genetics, 2020, 11, 546106.	2.3	24
74	D-Serine inhibits serine palmitoyltransferase, the enzyme catalyzing the initial step of sphingolipid biosynthesis. FEBS Letters, 2000, 474, 63-65.	2.8	23
75	Depletion of Sphingolipids Facilitates Endosome to Golgi Transport of Ricin. Traffic, 2006, 7, 1243-1253.	2.7	23
76	Novel endogenous simian retroviral integrations in Vero cells: implications for quality control of a human vaccine cell substrate. Scientific Reports, 2018, 8, 644.	3.3	21
77	Phosphoinositide binding by the PH domain in ceramide transfer protein (CERT) is inhibited by hyperphosphorylation of an adjacent serine-repeat motif. Journal of Biological Chemistry, 2018, 293, 11206-11217.	3.4	21
78	Sphingomyelin Is Essential for the Structure and Function of the Double-Membrane Vesicles in Hepatitis C Virus RNA Replication Factories. Journal of Virology, 2020, 94, .	3.4	19
79	Selection of Mammalian Cell Mutants in Sphingolipid Biosynthesis. Methods in Enzymology, 2000, 312, 304-317.	1.0	18
80	Real-time assay method of lipid extraction activity. Analytical Biochemistry, 2010, 399, 162-167.	2.4	18
81	The intermembrane ceramide transport catalyzed by CERT is sensitive to the lipid environment. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 229-235.	2.6	18
82	Role of Intracellular Lipid Logistics in the Preferential Usage of Very Long Chain-Ceramides in Glucosylceramide. International Journal of Molecular Sciences, 2016, 17, 1761.	4.1	17
83	Ceramide Transport from the Endoplasmic Reticulum to the Trans Golgi Region at Organelle Membrane Contact Sites. Advances in Experimental Medicine and Biology, 2017, 997, 69-81.	1.6	17
84	Ceramide traffic in C6 glioma cells: Evidence for CERT-dependent and independent transport from ER to the Golgi apparatus. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1781, 40-51.	2.4	16
85	Nanotubes connecting B lymphocytes: High impact of differentiation-dependent lipid composition on their growth and mechanics. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 991-1000.	2.4	15
86	Both the N- and C- terminal regions of the Chlamydial inclusion protein D (IncD) are required for interaction with the pleckstrin homology domain of the ceramide transport protein CERT. Biochemical and Biophysical Research Communications, 2018, 505, 1070-1076.	2.1	14
87	ABCB4 exports phosphatidylcholine in a sphingomyelin-dependent manner. Journal of Lipid Research, 2015, 56, 644-652.	4.2	13
88	Comparative characterization of flavivirus production in two cell lines: Human hepatoma-derived Huh7.5.1-8 and African green monkey kidney-derived Vero. PLoS ONE, 2020, 15, e0232274.	2.5	13
89	Sphingolipid Metabolism at the ER-Golgi Contact Zone and Its Impact on Membrane Trafficking. Contact (Thousand Oaks (Ventura County, Calif)), 2020, 3, 251525642095951.	1.3	12
90	Intellectual disability-associated gain-of-function mutations in CERT1 that encodes the ceramide transport protein CERT. PLoS ONE, 2020, 15, e0243980.	2.5	12

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91	Mammalian cell mutants of membrane phospholipid biogenesis. Trends in Cell Biology, 1997, 7, 324-329.	7.9	11
92	ChlamydiaÂtrachomatis â€infected human cells convert ceramide to sphingomyelin without sphingomyelin synthases 1 and 2. FEBS Letters, 2020, 594, 519-529.	2.8	11
93	Blood group P1 antigenâ€“bearing glycoproteins are functional but less efficient receptors of Shiga toxin than conventional glycolipid-based receptors. Journal of Biological Chemistry, 2020, 295, 9490-9501.	3.4	10
94	Diphtheria toxin translocation across cellular membranes is regulated by sphingolipids. Biochemical and Biophysical Research Communications, 2005, 329, 465-473.	2.1	9
95	Pleckstrin homology domain of p210 <scp>BCR</scp>â€<scp>ABL</scp> interacts with cardiolipin to regulate its mitochondrial translocation and subsequent mitophagy. Genes To Cells, 2018, 23, 22-34.	1.2	9
96	Characterization of Mutant Serine Palmitoyltransferase 1 in LYâ€B Cells. Lipids, 2009, 44, 725-732.	1.7	8
97	The First Meeting of the National Control Laboratories for Vaccines and Biologicals in the Western Pacific in 2016. Osong Public Health and Research Perspectives, 2017, 8, 91-103.	1.9	8
98	Intellectual disability-associated mutations in the ceramide transport protein gene CERT1 lead to aberrant function and subcellular distribution. Journal of Biological Chemistry, 2021, 297, 101338.	3.4	8
99	Compartmentalization of casein kinase 1 Î³ CSNK1G controls the intracellular trafficking of ceramide. IScience, 2022, 25, 104624.	4.1	8
100	Interorganelle Trafficking of Lipids: Preface for the Thematic Review Series. Traffic, 2014, 15, 889-894.	2.7	7
101	Poliovirus-nonsusceptible Vero cell line for the World Health Organization global action plan. Scientific Reports, 2021, 11, 6746.	3.3	5
102	Identification of SYS1 as a Host Factor Required for Shiga Toxin-Mediated Cytotoxicity in Vero Cells. International Journal of Molecular Sciences, 2021, 22, 4936.	4.1	5
103	Thermostable hepatitis C virus JFH1-derived variant isolated by adaptation to Huh7.5.1 cells. Journal of General Virology, 2018, 99, 1407-1417.	2.9	5
104	A hybrid strategy combining solution NMR spectroscopy and isothermal titration calorimetry to characterize protein-nanodisc interaction. Analytical Biochemistry, 2022, 639, 114521.	2.4	5
105	Whole-Genome Sequencing of Vero E6 (VERO C1008) and Comparative Analysis of Four Vero Cell Sublines. Frontiers in Genetics, 2022, 13, 801382.	2.3	5
106	Organelle contacts: Subâ€organelle zones to facilitate rapid and accurate interâ€organelle trafficking of lipids. Traffic, 2020, 21, 189-196.	2.7	4
107	Threeâ€Component, Oneâ€Pot Tandem Sonogashira/Suzukiâ€Miyaura Coupling Reactions for the Synthesis of a Library of Ceramideâ€Transport Protein Inhibitors Designed In Silico. Asian Journal of Organic Chemistry, 2020, 9, 267-273.	2.7	4
108	Natural Ligand-Mimetic and Nonmimetic Inhibitors of the Ceramide Transport Protein CERT. International Journal of Molecular Sciences, 2022, 23, 2098.	4.1	4

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109	Modulation of Zika virus replication via glycosphingolipids. Virology, 2022, 572, 17-27.	2.4	4
110	Reconstitution Assay System for Ceramide Transport With Semi-Intact Cells. Methods in Cell Biology, 2012, 108, 117-129.	1.1	3
111	Comprehensive phylogenomic analysis reveals a novel cluster of simian endogenous retroviral sequences in Colobinae monkeys. American Journal of Primatology, 2018, 80, e22882.	1.7	3
112	Serine Palmitoyltransferase. , 2006, , 25-47.		2
113	Hyperosmotic Stress Induces Phosphorylation of CERT and Enhances Its Tethering throughout the Endoplasmic Reticulum. International Journal of Molecular Sciences, 2022, 23, 4025.	4.1	2
114	Regulation of CERT-mediated trafficking of ceramide. Chemistry and Physics of Lipids, 2007, 149, S7.	3.2	1
115	In Vitro Assay to Extract Specific Lipid Types from Phospholipid Membranes Using Lipid-Transfer Proteins: A Lesson from the Ceramide Transport Protein CERT. Neuromethods, 2017, , 81-98.	0.3	1
116	Molecular Mechanism of Ceramide Trafficking from the Endoplasmic Reticulum to the Golgi Apparatus in Mammalian Cells. , 2006, , 107-121.		0