Akio Kihara

List of Publications by Citations

151 papers	15,421 citations	51 h-index	123 g-index
164 ext. papers	17,244 ext. citations	5.2 avg, IF	6.32 L-index

#	Paper	IF	Citations
151	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
150	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
149	Two distinct Vps34 phosphatidylinositol 3-kinase complexes function in autophagy and carboxypeptidase Y sorting in Saccharomyces cerevisiae. *Journal of Cell Biology*, **2001**, 152, 519-30	7.3	811
148	Beclin-phosphatidylinositol 3-kinase complex functions at the trans-Golgi network. *EMBO Reports*, **2001**, 2, 330-5	6.5	716
147	Intracellular localization and tissue-specific distribution of human and yeast DHHC cysteine-rich domain-containing proteins. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 474-83	5	297
146	Autophagosome requires specific early Sec proteins for its formation and NSF/SNARE for vacuolar fusion. *Molecular Biology of the Cell*, **2001**, 12, 3690-702	3.5	296
145	Mammalian Lass6 and its related family members regulate synthesis of specific ceramides. *Biochemical Journal*, **2005**, 390, 263-71	3.8	288
144	ELOVL1 production of C24 acyl-CoAs is linked to C24 sphingolipid synthesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 18439-44	11.5	229
143	Very long-chain fatty acids: elongation, physiology and related disorders. *Journal of Biochemistry*, **2012**, 152, 387-95	3.1	227
142	FtsH is required for proteolytic elimination of uncomplexed forms of SecY, an essential protein translocase subunit. *Proceedings of the National Academy of Sciences of the United States of America* , **1995**, 92, 4532-6	11.5	219
141	Ceramide biosynthesis in keratinocyte and its role in skin function. *Biochimie*, **2009**, 91, 784-90	4.6	189
140	Lack of sphingosine 1-phosphate-degrading enzymes in erythrocytes. *Biochemical and Biophysical Research Communications*, **2007**, 357, 212-7	3.4	153
139	Metabolism and biological functions of two phosphorylated sphingolipids, sphingosine 1-phosphate and ceramide 1-phosphate. *Progress in Lipid Research*, **2007**, 46, 126-44	14.3	145
138	Identification and characterization of a novel human sphingosine-1-phosphate phosphohydrolase, hSPP2. *Journal of Biological Chemistry*, **2003**, 278, 1268-72	5.4	144
137	Metabolism of very long-chain Fatty acids: genes and pathophysiology. *Biomolecules and Therapeutics*, **2014**, 22, 83-92	4.2	137
136	Sphingosine 1-phosphate is released from the cytosol of rat platelets in a carrier-mediated manner. *Journal of Lipid Research*, **2006**, 47, 614-21	6.3	136
135	LASS3 (longevity assurance homologue 3) is a mainly testis-specific (dihydro)ceramide synthase with relatively broad substrate specificity. *Biochemical Journal*, **2006**, 398, 531-8	3.8	135

134	Sphingosine-1-phosphate lyase SPL is an endoplasmic reticulum-resident, integral membrane protein with the pyridoxal 5Rphosphate binding domain exposed to the cytosol. *Biochemical and Biophysical Research Communications*, **2004**, 325, 338-43	3.4	125
133	Three-dimensional structure of phosphoenolpyruvate carboxylase: a proposed mechanism for allosteric inhibition. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 823-8	11.5	125
132	The Sjgren-Larsson syndrome gene encodes a hexadecenal dehydrogenase of the sphingosine 1-phosphate degradation pathway. *Molecular Cell*, **2012**, 46, 461-71	17.6	119
131	FtsH (HflB) is an ATP-dependent protease selectively acting on SecY and some other membrane proteins. *Journal of Biological Chemistry*, **1996**, 271, 31196-201	5.4	117
130	Palmitoylated calnexin is a key component of the ribosome-translocon complex. *EMBO Journal*, **2012**, 31, 1823-35	13	116
129	Synthesis and degradation pathways, functions, and pathology of ceramides and epidermal acylceramides. *Progress in Lipid Research*, **2016**, 63, 50-69	14.3	108
128	Subunit a of proton ATPase F0 sector is a substrate of the FtsH protease in Escherichia coli. *FEBS Letters*, **1996**, 399, 26-8	3.8	104
127	Distribution of sphingosine kinase activity in mouse tissues: contribution of SPHK1. *Biochemical and Biophysical Research Communications*, **2003**, 309, 155-60	3.4	103
126	Essential role of the cytochrome P450 CYP4F22 in the production of acylceramide, the key lipid for skin permeability barrier formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7707-12	11.5	102
125	Different pathways for protein degradation by the FtsH/HflKC membrane-embedded protease complex: an implication from the interference by a mutant form of a new substrate protein, YccA. *Journal of Molecular Biology*, **1998**, 279, 175-88	6.5	100
124	Impaired epidermal permeability barrier in mice lacking elovl1, the gene responsible for very-long-chain fatty acid production. *Molecular and Cellular Biology*, **2013**, 33, 2787-96	4.8	97
123	Dislocation of membrane proteins in FtsH-mediated proteolysis. *EMBO Journal*, **1999**, 18, 2970-81	13	95
122	Host regulation of lysogenic decision in bacteriophage lambda: transmembrane modulation of FtsH (HflB), the cII degrading protease, by HflKC (HflA). *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 5544-9	11.5	94
121	Lipid asymmetry of the eukaryotic plasma membrane: functions and related enzymes. *Biological and Pharmaceutical Bulletin*, **2006**, 29, 1542-6	2.3	94
120	2-Hydroxy-ceramide synthesis by ceramide synthase family: enzymatic basis for the preference of FA chain length. *Journal of Lipid Research*, **2008**, 49, 2356-64	6.3	78
119	Cross talk between sphingolipids and glycerophospholipids in the establishment of plasma membrane asymmetry. *Molecular Biology of the Cell*, **2004**, 15, 4949-59	3.5	78
118	Identification of the human sphingolipid C4-hydroxylase, hDES2, and its up-regulation during keratinocyte differentiation. *FEBS Letters*, **2004**, 563, 93-7	3.8	76
117	Identification and characterization of a Saccharomyces cerevisiae gene, RSB1, involved in sphingoid long-chain base release. *Journal of Biological Chemistry*, **2002**, 277, 30048-54	5.4	76

116	Mouse sphingosine kinase isoforms SPHK1a and SPHK1b differ in enzymatic traits including stability, localization, modification, and oligomerization. *Journal of Biological Chemistry*, **2006**, 281, 4532-9	5.4	72
115	Characterization of four mammalian 3-hydroxyacyl-CoA dehydratases involved in very long-chain fatty acid synthesis. *FEBS Letters*, **2008**, 582, 2435-40	3.8	70
114	Csg1p and newly identified Csh1p function in mannosylinositol phosphorylceramide synthesis by interacting with Csg2p. *Journal of Biological Chemistry*, **2003**, 278, 45049-55	5.4	70
113	Production and release of sphingosine 1-phosphate and the phosphorylated form of the immunomodulator FTY720. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2008**, 1781, 496-502	5	69
112	Sphingosine-1-phosphate lyase is involved in the differentiation of F9 embryonal carcinoma cells to primitive endoderm. *Journal of Biological Chemistry*, **2003**, 278, 14578-85	5.4	69
111	Rapid trafficking of c-Src, a non-palmitoylated Src-family kinase, between the plasma membrane and late endosomes/lysosomes. *Experimental Cell Research*, **2007**, 313, 2651-66	4.2	68
110	Analysis of substrate specificity of human DHHC protein acyltransferases using a yeast expression system. *Molecular Biology of the Cell*, **2012**, 23, 4543-51	3.5	66
109	Biochemical characterization of the very long-chain fatty acid elongase ELOVL7. *FEBS Letters*, **2011**, 585, 3337-41	3.8	65
108	Feedback inactivation of D-serine synthesis by NMDA receptor-elicited translocation of serine racemase to the membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 7589-94	11.5	65
107	A shift in sphingolipid composition from C24 to C16 increases susceptibility to apoptosis in HeLa cells. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2012**, 1821, 1031-7	5	64
106	FVT-1 is a mammalian 3-ketodihydrosphingosine reductase with an active site that faces the cytosolic side of the endoplasmic reticulum membrane. *Journal of Biological Chemistry*, **2004**, 279, 49243-50	5.4	64
105	PNPLA1 is a transacylase essential for the generation of the skin barrier lipid ω-O-acylceramide. *Nature Communications*, **2017**, 8, 14610	17.4	61
104	Identification of the phytosphingosine metabolic pathway leading to odd-numbered fatty acids. *Nature Communications*, **2014**, 5, 5338	17.4	57
103	Lysophosphatidic acid 2 receptor-mediated supramolecular complex formation regulates its antiapoptotic effect. *Journal of Biological Chemistry*, **2009**, 284, 14558-71	5.4	57
102	Product of a new gene, syd, functionally interacts with SecY when overproduced in Escherichia coli. *Journal of Biological Chemistry*, **1995**, 270, 5519-26	5.4	55
101	Mechanistic Details of Early Steps in Coenzyme Q Biosynthesis Pathway in Yeast. *Cell Chemical Biology*, **2016**, 23, 1241-1250	8.2	51
100	Products by the sphingosine kinase/sphingosine 1-phosphate (S1P) lyase pathway but not S1P stimulate mitogenesis. *Genes To Cells*, **2005**, 10, 605-15	2.3	47
99	Membrane protein Rim21 plays a central role in sensing ambient pH in Saccharomyces cerevisiae. *Journal of Biological Chemistry*, **2012**, 287, 38473-81	5.4	46

98	Membrane topology and essential amino acid residues of Phs1, a 3-hydroxyacyl-CoA dehydratase involved in very long-chain fatty acid elongation. *Journal of Biological Chemistry*, **2008**, 283, 11199-209	5.4	46
97	Sphingolipids regulate the yeast high-osmolarity glycerol response pathway. *Molecular and Cellular Biology*, **2012**, 32, 2861-70	4.8	43
96	Sphingosine 1-phosphate is a key metabolite linking sphingolipids to glycerophospholipids. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 766-72	5	42
95	Mouse aldehyde dehydrogenase ALDH3B2 is localized to lipid droplets via two C-terminal tryptophan residues and lipid modification. *Biochemical Journal*, **2015**, 465, 79-87	3.8	41
94	The Rim101 pathway is involved in Rsb1 expression induced by altered lipid asymmetry. *Molecular Biology of the Cell*, **2008**, 19, 1922-31	3.5	41
93	Very long-chain tear film lipids produced by fatty acid elongase ELOVL1 prevent dry eye disease in mice. *FASEB Journal*, **2018**, 32, 2966-2978	0.9	40
92	Congenital myopathy is caused by mutation of HACD1. *Human Molecular Genetics*, **2013**, 22, 5229-36	5.6	40
91	Asp177 in C4 domain of mouse sphingosine kinase 1a is important for the sphingosine recognition. *FEBS Letters*, **2004**, 578, 106-10	3.8	39
90	Identification of acyl-CoA synthetases involved in the mammalian sphingosine 1-phosphate metabolic pathway. *Biochemical and Biophysical Research Communications*, **2013**, 442, 195-201	3.4	38
89	Long-chain base kinase Lcb4 Is anchored to the membrane through its palmitoylation by Akr1. *Molecular and Cellular Biology*, **2005**, 25, 9189-97	4.8	38
88	Roles of the periplasmic domain of Escherichia coli FtsH (HflB) in protein interactions and activity modulation. *Journal of Biological Chemistry*, **1998**, 273, 22326-33	5.4	37
87	Enzyme Activities of the Ceramide Synthases CERS2-6 Are Regulated by Phosphorylation in the C-terminal Region. *Journal of Biological Chemistry*, **2016**, 291, 7477-87	5.4	37
86	Lorenzo's oil inhibits ELOVL1 and lowers the level of sphingomyelin with a saturated very long-chain fatty acid. *Journal of Lipid Research*, **2014**, 55, 524-30	6.3	36
85	Signaling events of the Rim101 pathway occur at the plasma membrane in a ubiquitination-dependent manner. *Molecular and Cellular Biology*, **2014**, 34, 3525-34	4.8	36
84	Biallelic Mutations in KDSR Disrupt Ceramide Synthesis and Result in a Spectrum of Keratinization Disorders Associated with Thrombocytopenia. *Journal of Investigative Dermatology*, **2017**, 137, 2344-2353	4.3	35
83	Cooperative Synthesis of Ultra Long-Chain Fatty Acid and Ceramide during Keratinocyte Differentiation. *PLoS ONE*, **2013**, 8, e67317	3.7	35
82	Transmembrane topology of sphingoid long-chain base-1-phosphate phosphatase, Lcb3p. *Genes To Cells*, **2003**, 8, 525-35	2.3	35
81	De novo mutation in causes ichthyosis, , hypomyelination, spastic paraplegia, high frequency deafness and optic atrophy. *Journal of Medical Genetics*, **2019**, 56, 164-175	5.8	35

80	Sphingolipid synthesis is involved in autophagy in Saccharomyces cerevisiae. *Biochemical and Biophysical Research Communications*, **2011**, 410, 786-91	3.4	32
79	Polypeptide binding of Escherichia coli FtsH (HflB). *Molecular Microbiology*, **1998**, 28, 803-12	4.1	32
78	The immunomodulator FTY720 is phosphorylated and released from platelets. *European Journal of Pharmacology*, **2007**, 568, 106-11	5.3	30
77	A role of the sphingosine-1-phosphate (S1P)-S1P receptor 2 pathway in epithelial defense against cancer (EDAC). *Molecular Biology of the Cell*, **2016**, 27, 491-9	3.5	29
76	Regulation of the transport and protein levels of the inositol phosphorylceramide mannosyltransferases Csg1 and Csh1 by the Ca2+-binding protein Csg2. *Journal of Biological Chemistry*, **2007**, 282, 8613-21	5.4	29
75	Translocation, folding, and stability of the HflKC complex with signal anchor topogenic sequences. *Journal of Biological Chemistry*, **1998**, 273, 29770-5	5.4	29
74	Skin permeability barrier formation by the ichthyosis-causative gene through formation of the barrier lipid □acylceramide. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 2914-2922	11.5	28
73	Dual functions of the trans-2-enoyl-CoA reductase TER in the sphingosine 1-phosphate metabolic pathway and in fatty acid elongation. *Journal of Biological Chemistry*, **2014**, 289, 24736-48	5.4	28
72	Phytosphingosine degradation pathway includes fatty acid □oxidation reactions in the endoplasmic reticulum. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E2616-E2623	11.5	27
71	HACD1, a regulator of membrane composition and fluidity, promotes myoblast fusion and skeletal muscle growth. *Journal of Molecular Cell Biology*, **2015**, 7, 429-40	6.3	27
70	Lipid polarity gradient formed by □hydroxy lipids in tear film prevents dry eye disease. *ELife*, **2020**, 9,	8.9	27
69	Comparative profiling and comprehensive quantification of stratum corneum ceramides in humans and mice by LC/MS/MS. *Journal of Lipid Research*, **2020**, 61, 884-895	6.3	26
68	Revisiting the lysogenization control of bacteriophage lambda. Identification and characterization of a new host component, HflD. *Journal of Biological Chemistry*, **2001**, 276, 13695-700	5.4	26
67	Degradation of long-chain base 1-phosphate (LCBP) in Arabidopsis: functional characterization of LCBP phosphatase involved in the dehydration stress response. *Journal of Plant Research*, **2012**, 125, 439-49	2.6	25
66	Integrin □ on lymphatic endothelial cells regulates lymphocyte egress. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 3080-5	11.5	24
65	Rescue of cell growth by sphingosine with disruption of lipid microdomain formation in Saccharomyces cerevisiae deficient in sphingolipid biosynthesis. *Biochemical Journal*, **2006**, 394, 237-42	3.8	24
64	Phosphorylation by Pho85 cyclin-dependent kinase acts as a signal for the down-regulation of the yeast sphingoid long-chain base kinase Lcb4 during the stationary phase. *Journal of Biological Chemistry*, **2005**, 280, 6520-7	5.4	24
63	Disruption of the Sj□gren-Larsson Syndrome Gene Aldh3a2 in Mice Increases Keratinocyte Growth and Retards Skin Barrier Recovery. *Journal of Biological Chemistry*, **2016**, 291, 11676-88	5.4	24

62	The role of PNPLA1 in Ω-O-acylceramide synthesis and skin barrier function. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2019**, 1864, 869-879	5	24
61	Effects on vesicular transport pathways at the late endosome in cells with limited very long-chain fatty acids. *Journal of Lipid Research*, **2013**, 54, 831-842	6.3	23
60	Molecular mechanism of the ichthyosis pathology of Chanarin-Dorfman syndrome: Stimulation of PNPLA1-catalyzed Ω-O-acylceramide production by ABHD5. *Journal of Dermatological Science*, **2018**, 92, 245-253	4.3	23
59	Mutation for nonsyndromic mental retardation in the trans-2-enoyl-CoA reductase TER gene involved in fatty acid elongation impairs the enzyme activity and stability, leading to change in sphingolipid profile. *Journal of Biological Chemistry*, **2013**, 288, 36741-9	5.4	22
58	Sphingolipids activate the endoplasmic reticulum stress surveillance pathway. *Journal of Cell Biology*, **2018**, 217, 495-505	7.3	21
57	Substrate specificity, plasma membrane localization, and lipid modification of the aldehyde dehydrogenase ALDH3B1. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2013**, 1831, 1395-401	5	21
56	The C-terminal Cytosolic Region of Rim21 Senses Alterations in Plasma Membrane Lipid Composition: INSIGHTS INTO SENSING MECHANISMS FOR PLASMA MEMBRANE LIPID ASYMMETRY. *Journal of Biological Chemistry*, **2015**, 290, 30797-805	5.4	19
55	Biosynthesis of the anti-lipid-microdomain sphingoid base 4,14-sphingadiene by the ceramide desaturase FADS3. *FASEB Journal*, **2020**, 34, 3318-3335	0.9	18
54	Histological analyses by matrix-assisted laser desorption/ionization-imaging mass spectrometry reveal differential localization of sphingomyelin molecular species regulated by particular ceramide synthase in mouse brains. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2015**, 1851, 1554-65	5	17
53	Unperverted synthesis of complex sphingolipids is essential for cell survival under nitrogen starvation. *Genes To Cells*, **2013**, 18, 650-9	2.3	17
52	Hetero-oligomeric interactions of an ELOVL4 mutant protein: implications in the molecular mechanism of Stargardt-3 macular dystrophy. *Molecular Vision*, **2010**, 16, 2438-45	2.3	17
51	Long-chain bases of sphingolipids are transported into cells via the acyl-CoA synthetases. *Scientific Reports*, **2016**, 6, 25469	4.9	17
50	Regulation of the sphingoid long-chain base kinase Lcb4p by ergosterol and heme: studies in phytosphingosine-resistant mutants. *Journal of Biological Chemistry*, **2005**, 280, 36674-82	5.4	16
49	The very-long-chain fatty acid elongase Elo2 rescues lethal defects associated with loss of the nuclear barrier function in fission yeast cells. *Journal of Cell Science*, **2019**, 132,	5.3	15
48	FTY720 Protects Against Ischemia-Reperfusion Injury by Preventing the Redistribution of Tight Junction Proteins and Decreases Inflammation in the Subacute Phase in an Experimental Stroke Model. *Translational Stroke Research*, **2020**, 11, 1103-1116	7.8	15
47	The 3-hydroxyacyl-CoA dehydratases HACD1 and HACD2 exhibit functional redundancy and are active in a wide range of fatty acid elongation pathways. *Journal of Biological Chemistry*, **2017**, 292, 15538-15551	5.4	15
46	A splicing isoform of LPP1, LPP1a, exhibits high phosphatase activity toward FTY720 phosphate. *Biochemical and Biophysical Research Communications*, **2008**, 375, 675-9	3.4	15
45	Neural symptoms in a gene knockout mouse model of Sjögren-Larsson syndrome are associated with a decrease in 2-hydroxygalactosylceramide. *FASEB Journal*, **2019**, 33, 928-941	0.9	14

44	Palmitoylation of the sphingosine 1-phosphate receptor S1P is involved in its signaling functions and internalization. *Genes To Cells*, **2009**, 14, 911-23	2.3	13
43	Two modes of regulation of the fatty acid elongase ELOVL6 by the 3-ketoacyl-CoA reductase KAR in the fatty acid elongation cycle. *PLoS ONE*, **2014**, 9, e101823	3.7	13
42	AM251 Suppresses Epithelial-Mesenchymal Transition of Renal Tubular Epithelial Cells. *PLoS ONE*, **2016**, 11, e0167848	3.7	13
41	Characterization of HACD1 K64Q mutant found in arrhythmogenic right ventricular dysplasia patients. *Journal of Biochemistry*, **2010**, 148, 617-22	3.1	12
40	Severe Skin Permeability Barrier Dysfunction in Knockout Mice Deficient in a Fatty Acid Hydroxylase Crucial to Acylceramide Production. *Journal of Investigative Dermatology*, **2020**, 140, 319-326.e4	4.3	12
39	The Rim101 pathway contributes to ER stress adaptation through sensing the state of plasma membrane. *Biochemical Journal*, **2017**, 474, 51-63	3.8	11
38	Sphingosine 1-phosphate receptor modulator ONO-4641 stimulates CD11bGr-1 cell expansion and inhibits lymphocyte infiltration in the lungs to ameliorate murine pulmonary emphysema. *Mucosal Immunology*, **2018**, 11, 1606-1620	9.2	11
37	Reduced chain length in myelin sphingolipids and poorer motor coordination in mice deficient in the fatty acid elongase. *FASEB BioAdvances*, **2019**, 1, 747-759	2.8	11
36	Decreased Skin Barrier Lipid Acylceramide and Differentiation-Dependent Gene Expression in Ichthyosis Gene Nipal4-Knockout Mice. *Journal of Investigative Dermatology*, **2018**, 138, 741-749	4.3	10
35	Sphingosine kinase assay system with fluorescent detection in high performance liquid chromatography. *Archives of Pharmacal Research*, **2006**, 29, 1049-54	6.1	10
34	Opt2 mediates the exposure of phospholipids during cellular adaptation to altered lipid asymmetry. *Journal of Cell Science*, **2015**, 128, 61-9	5.3	9
33	Sphingolipid-to-glycerophospholipid conversion in SPL-null cells implies the existence of an alternative isozyme. *Biochemical and Biophysical Research Communications*, **2005**, 329, 474-9	3.4	9
32	Intracellular stability of alpha fragments of beta-galactosidase: effects of amino-terminally fused polypeptides. *Biochemical and Biophysical Research Communications*, **1995**, 215, 452-8	3.4	9
31	Systematic analysis of Ca homeostasis in based on chemical-genetic interaction profiles. *Molecular Biology of the Cell*, **2017**, 28, 3415-3427	3.5	7
30	A sphingosine kinase activity assay using direct infusion electrospray ionization tandem mass spectrometry. *Analytical Biochemistry*, **2008**, 380, 35-40	3.1	7
29	Production of branched-chain very-long-chain fatty acids by fatty acid elongases and their tissue distribution in mammals. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2021**, 1866, 158842	5	7
28	Widespread tissue distribution and synthetic pathway of polyunsaturated C24:2 sphingolipids in mammals. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2018**, 1863, 1441-1448	5	7
27	Intracellular trafficking pathway of yeast long-chain base kinase Lcb4, from its synthesis to its degradation. *Journal of Biological Chemistry*, **2007**, 282, 28485-28492	5.4	6

26	Changes in S1P1 and S1P2 expression during embryonal development and primitive endoderm differentiation of F9 cells. *Biochemical and Biophysical Research Communications*, **2006**, 344, 852-8	3.4	6
25	Phs1 and the synthesis of very long chain Fatty acids are required for ballistospore formation. *PLoS ONE*, **2014**, 9, e105147	3.7	6
24	Diverse meibum lipids produced by Awat1 and Awat2 are important for stabilizing tear film and protecting the ocular surface. *IScience*, **2021**, 24, 102478	6.1	6
23	Comprehensive stratum corneum ceramide profiling reveals reduced acylceramides in ichthyosis patient with CERS3 mutations. *Journal of Dermatology*, **2021**, 48, 447-456	1.6	6
22	Structure-inspired design of a sphingolipid mimic sphingosine-1-phosphate receptor agonist from a naturally occurring sphingomyelin synthase inhibitor. *Chemical Communications*, **2018**, 54, 12758-12761	5.8	6
21	Decreases in 15-lipoxygenase metabolites in Olmsted syndrome model rats. *Journal of Dermatological Science*, **2017**, 85, 186-196	4.3	4
20	Novel biallelic FA2H mutations in a Japanese boy with fatty acid hydroxylase-associated neurodegeneration. *Brain and Development*, **2020**, 42, 217-221	2.2	4
19	Yeast Mpo1 Is a Novel Dioxygenase That Catalyzes the □Oxidation of a 2-Hydroxy Fatty Acid in an Fe-Dependent Manner. *Molecular and Cellular Biology*, **2019**, 39,	4.8	4
18	Identification of residues important for the catalysis, structure maintenance, and substrate specificity of yeast 3-hydroxyacyl-CoA dehydratase Phs1. *FEBS Letters*, **2013**, 587, 804-9	3.8	3
17	N-glycosylation of Rim21 at an Unconventional Site Fine-tunes Its Behavior in the Plasma Membrane. *Cell Structure and Function*, **2020**, 45, 1-8	2.2	3
16	Direct uptake of sphingosine-1-phosphate independent of phospholipid phosphatases. *Journal of Biological Chemistry*, **2021**, 296, 100605	5.4	3
15	Improvement of Evaporative Dry Eye With Meibomian Gland Dysfunction in Model Mice by Treatment With Ophthalmic Solution Containing Mineral Oil. *Translational Vision Science and Technology*, **2021**, 10, 21	3.3	2
14	Formation of fatty alcohols-components of meibum lipids-by the fatty acyl-CoA reductase FAR2 is essential for dry eye prevention.. *FASEB Journal*, **2022**, 36, e22216	0.9	2
13	Hypomyelinating spastic dyskinesia and ichthyosis caused by a homozygous splice site mutation leading to exon skipping in ELOVL1.. *Brain and Development*, **2022**,	2.2	2
12	Whole picture of human stratum corneum ceramides, including the chain-length diversity of long-chain bases. *Journal of Lipid Research*, **2022**, 100235	6.3	2
11	Amlexanox enhances the antitumor effect of anti-PD-1 antibody. *Biochemical and Biophysical Research Communications*, **2021**, 560, 1-6	3.4	1
10	Impaired production of the skin barrier lipid acylceramide by CYP4F22 ichthyosis mutations. *Journal of Dermatological Science*, **2021**, 101, 69-71	4.3	1
9	Impaired Skin Barrier Function Due to Reduced □Acylceramide Levels in a Mouse Model of Sj□gren-Larsson Syndrome. *Molecular and Cellular Biology*, **2021**, 41, e0035221	4.8	1

8	Synthesis, Metabolism, and Trans-Bilayer Movement of Long-Chain Base **2006**, 95-106		1
7	Catalytic residues, substrate specificity, and role in carbon starvation of the 2-hydroxy FA dioxygenase Mpo1 in yeast. *Journal of Lipid Research*, **2020**, 61, 1104-1114	6.3	0
6	Loop 5 region is important for the activity of the long-chain base transporter Rsb1. *Journal of Biochemistry*, **2017**, 161, 207-213	3.1	0
5	?????????????????? ????????????????????????. *Kagaku To Seibutsu*, **2016**, 54, 75-76	0	
4	Sphingolipid Metabolism via Sphingosine 1-Phosphate and Its Role in Physiology, Pathology, and Nutrition **2015**, 127-138		
3	Phosphoenolpyruvate carboxylase: Alteration of catalytic and regulatory properties by site-directed mutagenesis and isolation of the gene from an extreme thermophile. *Energy Conversion and Management*, **1995**, 36, 751-754	10.6	
2	Metabolism of long-chain bases of sphingolipids and fatty acid □-oxidation. *Plant Morphology*, **2018**, 30, 5-14	0	
1	Protein-bound ceramide levels in the epidermis of transglutaminase 1-deficient mice. *Journal of Dermatology*, **2021**, 48, 1799-1801	1.6	