Toshihide Kobayashi

List of Publications by Citations

180 papers	8,919 citations	51 h-index	89 g-index
198 ext. papers	10,017 ext. citations	6.1 avg, IF	5.75 L-index

#	Paper	IF	Citations
180	A lipid associated with the antiphospholipid syndrome regulates endosome structure and function. *Nature*, **1998**, 392, 193-7	50.4	652
179	Late endosomal membranes rich in lysobisphosphatidic acid regulate cholesterol transport. *Nature Cell Biology*, **1999**, 1, 113-8	23.4	520
178	Mast cell- and dendritic cell-derived exosomes display a specific lipid composition and an unusual membrane organization. *Biochemical Journal*, **2004**, 380, 161-71	3.8	436
177	Separation and characterization of late endosomal membrane domains. *Journal of Biological Chemistry*, **2002**, 277, 32157-64	5.4	279
176	Glycosphingolipid-enriched, detergent-insoluble complexes in protein sorting in epithelial cells. *Biochemistry*, **1993**, 32, 6365-73	3.2	239
175	The tetraspanin CD63/lamp3 cycles between endocytic and secretory compartments in human endothelial cells. *Molecular Biology of the Cell*, **2000**, 11, 1829-43	3.5	234
174	Activation of STING requires palmitoylation at the Golgi. *Nature Communications*, **2016**, 7, 11932	17.4	229
173	Redistribution of phosphatidylethanolamine at the cleavage furrow of dividing cells during cytokinesis. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 12867-72	11.5	222
172	A bilirubin-inducible fluorescent protein from eel muscle. *Cell*, **2013**, 153, 1602-11	56.2	187
171	Mitochondrial phospholipid hydroperoxide glutathione peroxidase inhibits the release of cytochrome c from mitochondria by suppressing the peroxidation of cardiolipin in hypoglycaemia-induced apoptosis. *Biochemical Journal*, **2000**, 351, 183-93	3.8	177
170	Spatial and functional heterogeneity of sphingolipid-rich membrane domains. *Journal of Biological Chemistry*, **2005**, 280, 24072-84	5.4	143
169	Novel lipogenic enzyme ELOVL7 is involved in prostate cancer growth through saturated long-chain fatty acid metabolism. *Cancer Research*, **2009**, 69, 8133-40	10.1	140
168	A functional barrier to movement of lipids in polarized neurons. *Nature*, **1992**, 359, 647-50	50.4	137
167	Role of membrane sphingomyelin and ceramide in platform formation for Fas-mediated apoptosis. *Journal of Experimental Medicine*, **2005**, 202, 249-59	16.6	133
166	STARD3 mediates endoplasmic reticulum-to-endosome cholesterol transport at membrane contact sites. *EMBO Journal*, **2017**, 36, 1412-1433	13	124
165	A lipid-specific toxin reveals heterogeneity of sphingomyelin-containing membranes. *Biophysical Journal*, **2004**, 86, 296-307	2.9	122
164	Increased lipid rafts and accelerated lipopolysaccharide-induced tumor necrosis factor-alpha secretion in Abca1-deficient macrophages. *Journal of Lipid Research*, **2007**, 48, 299-306	6.3	114

163	Curvature-dependent recognition of ethanolamine phospholipids by duramycin and cinnamycin. *Biophysical Journal*, **2007**, 93, 1608-19	2.9	107
162	A novel membrane protein, Ros3p, is required for phospholipid translocation across the plasma membrane in Saccharomyces cerevisiae. *Journal of Biological Chemistry*, **2002**, 277, 37855-62	5.4	107
161	Oligomerization and pore formation of a sphingomyelin-specific toxin, lysenin. *Journal of Biological Chemistry*, **2003**, 278, 22762-70	5.4	104
160	Marine antifungal theonellamides target 3beta-hydroxysterol to activate Rho1 signaling. *Nature Chemical Biology*, **2010**, 6, 519-26	11.7	99
159	A role for sphingomyelin-rich lipid domains in the accumulation of phosphatidylinositol-4,5-bisphosphate to the cleavage furrow during cytokinesis. *Molecular and Cellular Biology*, **2012**, 32, 1396-407	4.8	96
158	Fluorescent probes for superresolution imaging of lipid domains on the plasma membrane. *Chemical Science*, **2011**, 2, 1548	9.4	95
157	Lipids, lipid domains and lipid-protein interactions in endocytic membrane traffic. *Seminars in Cell and Developmental Biology*, **1998**, 9, 517-26	7.5	95
156	Binding of laminin-1 to monosialoganglioside GM1 in lipid rafts is crucial for neurite outgrowth. *Journal of Cell Science*, **2009**, 122, 289-99	5.3	91
155	Human CHMP6, a myristoylated ESCRT-III protein, interacts directly with an ESCRT-II component EAP20 and regulates endosomal cargo sorting. *Biochemical Journal*, **2005**, 387, 17-26	3.8	90
154	Involvement of very long fatty acid-containing lactosylceramide in lactosylceramide-mediated superoxide generation and migration in neutrophils. *Glycoconjugate Journal*, **2008**, 25, 357-74	3	87
153	Transport through recycling endosomes requires EHD1 recruitment by a phosphatidylserine translocase. *EMBO Journal*, **2015**, 34, 669-88	13	86
152	Eudicot plant-specific sphingolipids determine host selectivity of microbial NLP cytolysins. *Science*, **2017**, 358, 1431-1434	33.3	84
151	Long-term systemic therapy of Fabry disease in a knockout mouse by adeno-associated virus-mediated muscle-directed gene transfer. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 13777-82	11.5	80
150	Raft-based sphingomyelin interactions revealed by new fluorescent sphingomyelin analogs. *Journal of Cell Biology*, **2017**, 216, 1183-1204	7.3	79
149	Distribution and transport of cholesterol-rich membrane domains monitored by a membrane-impermeant fluorescent polyethylene glycol-derivatized cholesterol. *Journal of Biological Chemistry*, **2004**, 279, 23790-6	5.4	77
148	Cross-talk between caveolae and glycosylphosphatidylinositol-rich domains. *Journal of Biological Chemistry*, **2001**, 276, 30729-36	5.4	77
147	Transbilayer distribution of lipids at nano scale. *Journal of Cell Science*, **2015**, 128, 1627-38	5.3	72
146	Cinnamycin (Ro 09-0198) promotes cell binding and toxicity by inducing transbilayer lipid movement. *Journal of Biological Chemistry*, **2003**, 278, 3204-9	5.4	67

145	Lysenin: a sphingomyelin specific pore-forming toxin. *Biochimica Et Biophysica Acta - General Subjects*, **2008**, 1780, 612-8	4	65
144	Role for phospholipid flippase complex of ATP8A1 and CDC50A proteins in cell migration. *Journal of Biological Chemistry*, **2013**, 288, 4922-34	5.4	63
143	Local exposure of phosphatidylethanolamine on the yeast plasma membrane is implicated in cell polarity. *Genes To Cells*, **2004**, 9, 891-903	2.3	63
142	Visualization of the heterogeneous membrane distribution of sphingomyelin associated with cytokinesis, cell polarity, and sphingolipidosis. *FASEB Journal*, **2015**, 29, 477-93	0.9	61
141	Recognition of sphingomyelin by lysenin and lysenin-related proteins. *Biochemistry*, **2004**, 43, 9766-73	3.2	61
140	Transbilayer lipid asymmetry. *Current Biology*, **2018**, 28, R386-R391	6.3	59
139	Clot retraction is mediated by factor XIII-dependent fibrin-□b□-myosin axis in platelet sphingomyelin-rich membrane rafts. *Blood*, **2013**, 122, 3340-8	2.2	59
138	Interaction of anti-phospholipid antibodies with late endosomes of human endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, 563-74	9.4	59
137	Carbohydrate-dependent signaling from the phosphatidylglucoside-based microdomain induces granulocytic differentiation of HL60 cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 7454-9	11.5	58
136	Imaging lipid rafts. *Journal of Biochemistry*, **2005**, 137, 249-54	3.1	58
135	Localization of lysobisphosphatidic acid-rich membrane domains in late endosomes. *Biological Chemistry*, **2001**, 382, 483-5	4.5	58
134	Crystal structure of an invertebrate cytolysin pore reveals unique properties and mechanism of assembly. *Nature Communications*, **2016**, 7, 11598	17.4	54
133	Lipid compartmentalization in the endosome system. *Seminars in Cell and Developmental Biology*, **2014**, 31, 48-56	7.5	54
132	Transport of exogenous fluorescent phosphatidylserine analogue to the Golgi apparatus in cultured fibroblasts. *Journal of Cell Biology*, **1991**, 113, 235-44	7.3	53
131	Cholesterol controls lipid endocytosis through Rab11. *Molecular Biology of the Cell*, **2007**, 18, 2667-77	3.5	51
130	De novo biosynthesis of the late endosome lipid, bis(monoacylglycero)phosphate. *Journal of Lipid Research*, **2007**, 48, 1997-2008	6.3	51
129	Sphingomyelin synthase 1-generated sphingomyelin plays an important role in transferrin trafficking and cell proliferation. *Journal of Biological Chemistry*, **2011**, 286, 36053-36062	5.4	48
128	Caveolar endocytosis and microdomain association of a glycosphingolipid analog is dependent on its sphingosine stereochemistry. *Journal of Biological Chemistry*, **2006**, 281, 30660-8	5.4	48

127	Rapid access to synthetic lysobisphosphatidic acids using P(III) chemistry. *Organic Letters*, **2000**, 2, 1859-61	6.2	47
126	ATP-dependent fusion of liposomes with the Golgi apparatus of perforated cells. *Cell*, **1988**, 55, 797-805	56.2	47
125	Deficiency in the Lipid Exporter ABCA1 Impairs Retrograde Sterol Movement and Disrupts Sterol Sensing at the Endoplasmic Reticulum. *Journal of Biological Chemistry*, **2015**, 290, 23464-77	5.4	43
124	Real-time visualization of assembling of a sphingomyelin-specific toxin on planar lipid membranes. *Biophysical Journal*, **2013**, 105, 1397-405	2.9	42
123	Sphingolipid transport from the trans-Golgi network to the apical surface in permeabilized MDCK cells. *FEBS Letters*, **1992**, 300, 227-31	3.8	42
122	Gangliosides and beta1-integrin are required for caveolae and membrane domains. *Traffic*, **2010**, 11, 348-60	5.7	41
121	Visualization of Lipid Membrane Reorganization Induced by a Pore-Forming Toxin Using High-Speed Atomic Force Microscopy. *ACS Nano*, **2015**, 9, 7960-7	16.7	39
120	CARTS biogenesis requires VAP-lipid transfer protein complexes functioning at the endoplasmic reticulum-Golgi interface. *Molecular Biology of the Cell*, **2015**, 26, 4686-99	3.5	39
119	Rapid flip-flop motions of diacylglycerol and ceramide in phospholipid bilayers. *Chemical Physics Letters*, **2012**, 522, 96-102	2.5	39
118	The single-giant unilamellar vesicle method reveals lysenin-induced pore formation in lipid membranes containing sphingomyelin. *Biochemistry*, **2012**, 51, 5160-72	3.2	39
117	Dynamic clustering and dispersion of lipid rafts contribute to fusion competence of myogenic cells. *Experimental Cell Research*, **2009**, 315, 3052-63	4.2	39
116	Cholesterol and lipid/protein ratio control the oligomerization of a sphingomyelin-specific toxin, lysenin. *Biochemistry*, **2007**, 46, 1495-502	3.2	37
115	D-threo-1-phenyl-2-decanoylamino-3-morpholino-1-propanol alters cellular cholesterol homeostasis by modulating the endosome lipid domains. *Biochemistry*, **2006**, 45, 4530-41	3.2	37
114	Lipid polarity is maintained in absence of tight junctions. *Journal of Biological Chemistry*, **2012**, 287, 9525-33	5.4	36
113	Synthesis and inhibition mechanism of Delta lac-acetogenins, a novel type of inhibitor of bovine heart mitochondrial complex I. *Biochemistry*, **2005**, 44, 816-25	3.2	36
112	Revisiting transbilayer distribution of lipids in the plasma membrane. *Chemistry and Physics of Lipids*, **2016**, 194, 58-71	3.7	35
111	Subcellular localization of sphingomyelin revealed by two toxin-based probes in mammalian cells. *Genes To Cells*, **2012**, 17, 720-7	2.3	35
110	Peroxidation of liposomes in the presence of human erythrocytes and induction of membrane damage of erythrocytes by peroxidized liposomes. *Biochimica Et Biophysica Acta - Biomembranes*, **1985**, 814, 170-8	3.8	35

109	Binding of a pleurotolysin ortholog from Pleurotus eryngii to sphingomyelin and cholesterol-rich membrane domains. *Journal of Lipid Research*, **2013**, 54, 2933-43	6.3	34
108	Monitoring the distribution and dynamics of signaling microdomains in living cells with lipid-specific probes. *Cellular and Molecular Life Sciences*, **2007**, 64, 2492-504	10.3	34
107	Plasma Membrane Origin of the Steroidogenic Pool of Cholesterol Used in Hormone-induced Acute Steroid Formation in Leydig Cells. *Journal of Biological Chemistry*, **2016**, 291, 26109-26125	5.4	33
106	Phosphatidylglucoside forms specific lipid domains on the outer leaflet of the plasma membrane. *Biochemistry*, **2010**, 49, 4732-9	3.2	32
105	Binding parameters and thermodynamics of the interaction of imino sugars with a recombinant human acid alpha-glucosidase (alglucosidase alfa): insight into the complex formation mechanism. *Clinica Chimica Acta*, **2008**, 391, 68-73	6.2	32
104	Spectroscopic evidence for the unusual stereochemical configuration of an endosome-specific lipid. *Angewandte Chemie - International Edition*, **2012**, 51, 533-5	16.4	31
103	Selective decrease of bis(monoacylglycero)phosphate content in macrophages by high supplementation with docosahexaenoic acid. *Journal of Lipid Research*, **2009**, 50, 243-55	6.3	31
102	Molecular interaction of imino sugars with human alpha-galactosidase: Insight into the mechanism of complex formation and pharmacological chaperone action in Fabry disease. *Molecular Genetics and Metabolism*, **2009**, 96, 233-8	3.7	31
101	Fluorescence image screening for chemical compounds modifying cholesterol metabolism and distribution. *Journal of Lipid Research*, **2011**, 52, 2084-94	6.3	30
100	Lysenin: a new tool for investigating membrane lipid organization. *Kaibogaku Zasshi Journal of Anatomy*, **2004**, 79, 184-90		30
99	Duramycin-induced destabilization of a phosphatidylethanolamine monolayer at the air-water interface observed by vibrational sum-frequency generation spectroscopy. *Langmuir*, **2010**, 26, 16055-62	4	29
98	Lipid rafts: new tools and a new component. *Biological and Pharmaceutical Bulletin*, **2006**, 29, 1526-31	2.3	29
97	Anti-bis(monoacylglycero)phosphate antibody accumulates acetylated LDL-derived cholesterol in cultured macrophages. *Journal of Lipid Research*, **2007**, 48, 543-52	6.3	28
96	Evaluation of aegerolysins as novel tools to detect and visualize ceramide phosphoethanolamine, a major sphingolipid in invertebrates. *FASEB Journal*, **2015**, 29, 3920-34	0.9	27
95	Detectors for evaluating the cellular landscape of sphingomyelin- and cholesterol-rich membrane domains. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2016**, 1861, 812-829	5	27
94	Lipid bilayers at the gel interface for single ion channel recordings. *Analytical Chemistry*, **2008**, 80, 7792-5	6.8	27
93	Fungal metabolite sulfamisterin suppresses sphingolipid synthesis through inhibition of serine palmitoyltransferase. *Biochemistry*, **2005**, 44, 268-77	3.2	27
92	Vesiculation of platelet plasma membranes. Dilauroylglycerophosphocholine-induced shedding of a platelet plasma membrane fraction enriched in acetylcholinesterase activity. *Biochimica Et Biophysica Acta - Biomembranes*, **1984**, 778, 210-8	3.8	27

91	Visualization of sterol-rich membrane domains with fluorescently-labeled theonellamides. *PLoS ONE*, **2013**, 8, e83716	3.7	26
90	Detection of Sphingomyelin Clusters by Raman Spectroscopy. *Biophysical Journal*, **2016**, 111, 999-1007	2.9	26
89	Imaging local sphingomyelin-rich domains in the plasma membrane using specific probes and advanced microscopy. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 720-6	5	25
88	On the origin of the 1602 cm-1 Raman band of yeasts; contribution of ergosterol. *Journal of Biophotonics*, **2012**, 5, 724-8	3.1	25
87	Assemblies of pore-forming toxins visualized by atomic force microscopy. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 500-11	3.8	24
86	alpha 7-type acetylcholine receptor localization and its modulation by nicotine and cholesterol in vascular endothelial cells. *Journal of Cellular Biochemistry*, **2011**, 112, 3276-88	4.7	24
85	Corrective effect on Fabry mice of yeast recombinant human alpha-galactosidase with N-linked sugar chains suitable for lysosomal delivery. *Journal of Human Genetics*, **2006**, 51, 341-352	4.3	24
84	Properties and functions of lactosylceramide from mouse neutrophils. *Glycobiology*, **2015**, 25, 655-68	5.8	23
83	A novel sphingomyelin/cholesterol domain-specific probe reveals the dynamics of the membrane domains during virus release and in Niemann-Pick type C. *FASEB Journal*, **2017**, 31, 1301-1322	0.9	23
82	Lipid domains in the endocytic pathway. *Seminars in Cell and Developmental Biology*, **2001**, 12, 173-82	7.5	23
81	Stimulatory effects of combined endocrine disruptors on MA-10 Leydig cell steroid production and lipid homeostasis. *Toxicology*, **2016**, 355-356, 21-30	4.4	23
80	Pore-forming toxins: Properties, diversity, and uses as tools to image sphingomyelin and ceramide phosphoethanolamine. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 576-92	3.8	22
79	Evaluation of the influence of ionization states and spacers in the thermotropic phase behaviour of amino acid-based cationic lipids and the transfection efficiency of their assemblies. *International Journal of Pharmaceutics*, **2012**, 422, 364-73	6.5	22
78	Sphingomyelin regulates the transbilayer movement of diacylglycerol in the plasma membrane of Madin-Darby canine kidney cells. *FASEB Journal*, **2013**, 27, 3284-97	0.9	22
77	Lipid membrane domains in cell surface and vacuolar systems. *Glycoconjugate Journal*, **2000**, 17, 163-71	3	22
76	Intracellular and Plasma Membrane Cholesterol Labeling and Quantification Using Filipin and GFP-D4. *Methods in Molecular Biology*, **2019**, 1949, 137-152	1.4	21
75	Molecular mechanisms of action of sphingomyelin-specific pore-forming toxin, lysenin. *Seminars in Cell and Developmental Biology*, **2018**, 73, 188-198	7.5	21
74	Phospholipase C□ induces membrane tubulation and is involved in caveolae formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7834-9	11.5	21

73	pH-dependent formation of membranous cytoplasmic body-like structure of ganglioside G(M1)/bis(monoacylglycero)phosphate mixed membranes. *Biophysical Journal*, **2007**, 92, L13-6	2.9	21
72	Release of vesicles containing acetylcholinesterase from erythrocyte membranes by treatment with dilauroylglycerophosphocholine. *Journal of Biochemistry*, **1983**, 93, 1691-99	3.1	20
71	Bis(monoacylglycero)phosphate accumulation in macrophages induces intracellular cholesterol redistribution, attenuates liver-X receptor/ATP-Binding cassette transporter A1/ATP-binding cassette transporter G1 pathway, and impairs cholesterol efflux. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 1803-11	9.4	19
70	Limonoid compounds inhibit sphingomyelin biosynthesis by preventing CERT protein-dependent extraction of ceramides from the endoplasmic reticulum. *Journal of Biological Chemistry*, **2012**, 287, 24397-411	5.4	19
69	Differential membrane packing of stereoisomers of bis(monoacylglycero)phosphate. *Biochemistry*, **2006**, 45, 9198-209	3.2	18
68	NPC1 enables cholesterol mobilization during long-term potentiation that can be restored in Niemann-Pick disease type C by CYP46A1 activation. *EMBO Reports*, **2019**, 20, e48143	6.5	18
67	Acute accumulation of free cholesterol induces the degradation of perilipin 2 and Rab18-dependent fusion of ER and lipid droplets in cultured human hepatocytes. *Molecular Biology of the Cell*, **2016**, 27, 3293-3304	3.5	17
66	Probing phosphoethanolamine-containing lipids in membranes with duramycin/cinnamycin and aegerolysin proteins. *Biochimie*, **2016**, 130, 81-90	4.6	17
65	Selective incorporation of docosahexaenoic acid into lysobisphosphatidic acid in cultured THP-1 macrophages. *Lipids*, **2006**, 41, 189-96	1.6	16
64	Total synthesis and biological activities of (+)-sulfamisterin (AB5366) and its analogues. *Journal of Antibiotics*, **2005**, 58, 37-49	3.7	16
63	Targeting cholesterol in a liquid-disordered environment by theonellamides modulates cell membrane order and cell shape. *Chemistry and Biology*, **2015**, 22, 604-10		15
62	Clostridium perfringens Alpha-Toxin Induces Gm1a Clustering and Trka Phosphorylation in the Host Cell Membrane. *PLoS ONE*, **2015**, 10, e0120497	3.7	15
61	PDMP, a ceramide analogue, acts as an inhibitor of mTORC1 by inducing its translocation from lysosome to endoplasmic reticulum. *Experimental Cell Research*, **2017**, 350, 103-114	4.2	14
60	Nanomechanical recognition of sphingomyelin-rich membrane domains by atomic force microscopy. *Biochemistry*, **2012**, 51, 74-82	3.2	14
59	Stage-specific association of apolipoprotein A-I and E in developing mouse retina. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 1815-23		14
58	Complementation analysis reveals a potential role of human ARV1 in GPI anchor biosynthesis. *Yeast* , **2016**, 33, 37-42	3.4	12
57	Protein probes to visualize sphingomyelin and ceramide phosphoethanolamine. *Chemistry and Physics of Lipids*, **2018**, 216, 132-141	3.7	12
56	Dynamics of sphingomyelin- and cholesterol-enriched lipid domains during cytokinesis. *Methods in Cell Biology*, **2017**, 137, 15-24	1.8	11

55	A weight averaged approach for predicting amide vibrational bands of a sphingomyelin bilayer. *Physical Chemistry Chemical Physics*, **2015**, 17, 29113-23	3.6	11
54	Multiplex analysis of sphingolipids using amine-reactive tags (iTRAQ). *Journal of Lipid Research*, **2011**, 52, 1294-1302	6.3	11
53	Single channel properties of lysenin measured in artificial lipid bilayers and their applications to biomolecule detection. *Proceedings of the Japan Academy Series B: Physical and Biological Sciences*, **2010**, 86, 920-5	4	11
52	Structural characterization of N-lignoceroyl (C24:0) sphingomyelin bilayer membranes: a re-evaluation. *Journal of Applied Crystallography*, **2007**, 40, s312-s317	3.8	11
51	Scanning tunneling microscope observation of the phosphatidylserine domains in the phosphatidylcholine monolayer. *Langmuir*, **2015**, 31, 5449-55	4	10
50	Intrinsically disordered region of influenza A NP regulates viral genome packaging via interactions with viral RNA and host PI(4,5)P2. *Virology*, **2016**, 496, 116-126	3.6	10
49	Effect of Cholesterol on the Interaction of Cytochrome P450 Substrate Drug Chlorzoxazone with the Phosphatidylcholine Bilayer. *Biochemistry*, **2016**, 55, 3888-98	3.2	10
48	Regulation of the transbilayer movement of diacylglycerol in the plasma membrane. *Biochimie*, **2014**, 107 Pt A, 43-50	4.6	10
47	Fyn tyrosine kinase regulates the surface expression of glycosylphosphatidylinositol-linked ephrin via the modulation of sphingomyelin metabolism. *Journal of Biological Chemistry*, **2009**, 284, 9206-14	5.4	10
46	Visualization of phospholipid particle fusion induced by duramycin. *Langmuir*, **2009**, 25, 8200-7	4	10
45	Antibody-induced acetylcholine receptor clusters inhabit liquid-ordered and liquid-disordered domains. *Biophysical Journal*, **2013**, 105, 1601-11	2.9	9
44	A Chinese hamster ovary cell mutant resistant to phosphatidylserine is defective in transbilayer movement of cell surface phosphatidylserine. *Experimental Cell Research*, **1996**, 228, 341-6	4.2	9
43	Membrane phospholipid synthesis in Escherichia coli: alteration by glycerol and physiological consequences in a pss mutant. *Journal of Biochemistry*, **1986**, 99, 1393-400	3.1	9
42	Phosphatidylglucoside: its structure, thermal behavior, and domain formation in plasma membranes. *Chemistry and Physics of Lipids*, **2012**, 165, 197-206	3.7	8
41	Lysis of erythrocytes by phosphatidylcholine containing polyunsaturated fatty acid. *Journal of Biochemistry*, **1983**, 93, 675-80	3.1	8
40	Effects of chlorpromazine and other calmodulin antagonists on phosphatidylcholine-induced vesiculation of platelet plasma membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **1986**, 855, 58-62	3.8	8
39	Altered interaction between Sendai virus and a Chinese hamster cell mutant with defective cholesterol synthesis. *Biochimica Et Biophysica Acta - Biomembranes*, **1987**, 904, 159-64	3.8	7
38	Plasma membrane sphingomyelin modulates thymocyte development by inhibiting TCR-induced apoptosis. *International Immunology*, **2019**, 31, 211-223	4.9	7

37	Homologous genes, Pe.pleurotolysin A and Pe.ostreolysin, are both specifically and highly expressed in primordia and young fruiting bodies of Pleurotus eryngii. *Mycoscience*, **2014**, 55, 113-117	1.2	6
36	Imaging lipid membrane domains with lipid-specific probes. *Methods in Molecular Biology*, **2009**, 580, 203-20	1.4	6
35	Formation of tubules and helical ribbons by ceramide phosphoethanolamine-containing membranes. *Scientific Reports*, **2019**, 9, 5812	4.9	5
34	Cholesterol asymmetry at the tip of filopodia during cell adhesion. *FASEB Journal*, **2020**, 34, 6185-6197	0.9	5
33	Asymmetrical diacylglycerol dynamics on the cytosolic and lumenal sides of a single endomembrane in living cells. *Scientific Reports*, **2015**, 5, 12960	4.9	5
32	Lipid Bilayers at Gel/Gel Interface for Ion Channel Recordings. *E-Journal of Surface Science and Nanotechnology*, **2008**, 6, 130-133	0.7	5
31	Extreme deformability of insect cell membranes is governed by phospholipid scrambling. *Cell Reports*, **2021**, 35, 109219	10.6	5
30	Psychosine-triggered endomitosis is modulated by membrane sphingolipids through regulation of phosphoinositide 4,5-bisphosphate production at the cleavage furrow. *Molecular Biology of the Cell*, **2016**, 27, 2037-50	3.5	5
29	Development of a Novel Tetravalent Synthetic Peptide That Binds to Phosphatidic Acid. *PLoS ONE*, **2015**, 10, e0131668	3.7	4
28	Cholesterol regulation of rab-mediated sphingolipid endocytosis. *Glycoconjugate Journal*, **2009**, 26, 705-10	3	4
27	The Use of Lipid-Binding Toxins to Study the Distribution and Dynamics of Sphingolipids and Cholesterol	53-71	4
26	Clinical, biochemical, and cytochemical studies on a Japanese Salla disease case associated with a renal disorder. *Journal of Human Genetics*, **2004**, 49, 656-663	4.3	4
25	Inhibition of platelet aggregation by synthetic phosphatidylcholines: possible involvement of vesiculation of platelet plasma membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **1985**, 817, 307-12	3.8	4
24	Formation of Ordered Phospholipid Monolayer on a Hydrophilically Modified Au(111) Substrate. *ACS Nano*, **2016**, 10, 7811-20	16.7	4
23	The use of pore-forming toxins to image lipids and lipid domains. *Methods in Enzymology*, **2021**, 649, 503-542	1.7	4
22	In Situ STM and Vibrational Study of Nanometer-Scale Reorganization of a Phospholipid Monolayer Accompanied by Potential-Driven Headgroup Digestion. *Langmuir*, **2017**, 33, 13157-13167	4	3
21	Glycosphingolipid deficiency increases the sterol regulatory element-mediated gene transcription. *Biochemical and Biophysical Research Communications*, **2009**, 378, 240-3	3.4	3
20	Photoswitchable phospholipid FRET acceptor: Detergent free intermembrane transfer assay of fluorescent lipid analogs. *Scientific Reports*, **2017**, 7, 2900	4.9	2

19	Membrane Properties of Dipalmitoyl Bis (monoaclyglycero) phosphate. *Membrane*, **2007**, 32, 221-228	0	2
18	Light-induced potential and current across a large bacteriorhodopsin-asolectin planar membrane stabilized on a polyacrylamide gel surface. *Journal of Biochemistry*, **1986**, 99, 777-83	3.1	2
17	PMP2/FABP8 induces PI(4,5)P-dependent transbilayer reorganization of sphingomyelin in the plasma membrane. *Cell Reports*, **2021**, 37, 109935	10.6	2
16	Wrapping axons in mammals and Drosophila: Different lipids, same principle. *Biochimie*, **2020**, 178, 39-48	4.6	2
15	Spectroscopic Evidence for the Unusual Stereochemical Configuration of an Endosome-Specific Lipid. *Angewandte Chemie*, **2012**, 124, 548-550	3.6	1
14	Direct homophilic interaction of LAMP2A with the two-domain architecture revealed by site-directed photo-crosslinks and steric hindrances in mammalian cells. *Autophagy*, **2021**, 1-19	10.2	1
13	Imaging Sphingomyelin- and Cholesterol-Enriched Domains in the Plasma Membrane Using a Novel Probe and Super-Resolution Microscopy. *Advances in Experimental Medicine and Biology*, **2021**, 1310, 81-90	3.6	1
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