Hiroki Nakanishi

List of Publications by Year
in descending order

71 papers	6,799 citations	117625 34 h-index	98798 67 g-index
71 all docs	71 docs citations	71 times ranked	10267 citing authors

#	Article	IF	Citations
1	MassBank: a public repository for sharing mass spectral data for life sciences. Journal of Mass Spectrometry, 2010, 45, 703-714.	1.6	1,831
2	The Lipid Mediator Protectin D1 Inhibits Influenza Virus Replication and Improves Severe Influenza. Cell, 2013, 153, 112-125.	28.9	399
3	Discovery of a lysophospholipid acyltransferase family essential for membrane asymmetry and diversity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2830-2835.	7.1	265
4	Identification and Characterization of a Novel Lysophosphatidic Acid Receptor, p2y5/LPA6. Journal of Biological Chemistry, 2009, 284, 17731-17741.	3.4	225
5	A Single Enzyme Catalyzes Both Platelet-activating Factor Production and Membrane Biogenesis of Inflammatory Cells. Journal of Biological Chemistry, 2007, 282, 6532-6539.	3.4	214
6	Focused lipidomics by tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 823, 26-36.	2.3	207
7	Cloning and Characterization of Mouse Lung-type Acyl-CoA:Lysophosphatidylcholine Acyltransferase 1 (LPCAT1). Journal of Biological Chemistry, 2006, 281, 20140-20147.	3.4	204
8	The Anti-Inflammatory and Proresolving Mediator Resolvin E1 Protects Mice from Bacterial Pneumonia and Acute Lung Injury. Journal of Immunology, 2010, 184, 836-843.	0.8	204
9	Identification and Structure Determination of Novel Anti-inflammatory Mediator Resolvin E3, 17,18-Dihydroxyeicosapentaenoic Acid. Journal of Biological Chemistry, 2012, 287, 10525-10534.	3.4	196
10	Visualization of the cell-selective distribution of PUFA-containing phosphatidylcholines in mouse brain by imaging mass spectrometry. Journal of Lipid Research, 2009, 50, 1776-1788.	4.2	180
11	PTEN Regulates PI(3,4)P2 Signaling Downstream of Class I PI3K. Molecular Cell, 2017, 68, 566-580.e10.	9.7	149
12	Eosinophils promote resolution of acute peritonitis by producing proresolving mediators in mice. FASEB Journal, 2011, 25, 561-568.	0.5	140
13	Metabolic Remodeling Induced by Mitochondrial Aldehyde Stress Stimulates Tolerance to Oxidative Stress in the Heart. Circulation Research, 2009, 105, 1118-1127.	4.5	129
14	Rapid and selective identification of molecular species in phosphatidylcholine and sphingomyelin by conditional neutral loss scanning and MS3. Rapid Communications in Mass Spectrometry, 2004, 18, 3123-3130.	1.5	126
15	Lipidomic analysis of brain tissues and plasma in a mouse model expressing mutated human amyloid precursor protein/tau for Alzheimerâ€™s disease. Lipids in Health and Disease, 2013, 12, 68.	3.0	120
16	Matrixâ€assisted laser desorption/ionization quadrupole ion trap timeâ€ofâ€flight (MALDIâ€QITâ€TOF)â€based imaging mass spectrometry reveals a layered distribution of phospholipid molecular species in the mouse retina. Rapid Communications in Mass Spectrometry, 2008, 22, 3415-3426.	1.5	119
17	Lymphoid tissue phospholipase A2 group IID resolves contact hypersensitivity by driving antiinflammatory lipid mediators. Journal of Experimental Medicine, 2013, 210, 1217-1234.	8.5	119
18	Docosahexaenoic acid preserves visual function by maintaining correct disc morphology in retinal photoreceptor cells. Journal of Biological Chemistry, 2017, 292, 12054-12064.	3.4	113

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19	Phosphatidic Acid (PA)-preferring Phospholipase A1 Regulates Mitochondrial Dynamics. Journal of Biological Chemistry, 2014, 289, 11497-11511.	3.4	110
20	Group III secreted phospholipase A2 regulates epididymal sperm maturation and fertility in mice. Journal of Clinical Investigation, 2010, 120, 1400-1414.	8.2	100
21	Glucocorticoid protects rodent hearts from ischemia/reperfusion injury by activating lipocalin-type prostaglandin D synthaseâ€"derived PGD2 biosynthesis. Journal of Clinical Investigation, 2009, 119, 1477-1488.	8.2	99
22	The role of group IIF-secreted phospholipase A2 in epidermal homeostasis and hyperplasia. Journal of Experimental Medicine, 2015, 212, 1901-1919.	8.5	84
23	Separation and quantification of sn-1 and sn-2 fatty acid positional isomers in phosphatidylcholine by RPLC-ESIMS/MS. Journal of Biochemistry, 2010, 147, 245-256.	1.7	80
24	Topology of acyltransferase motifs and substrate specificity and accessibility in 1-acyl-sn-glycero-3-phosphate acyltransferase 1. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 1202-1215.	2.4	75
25	INPP4B Is a PtdIns(3,4,5)P3 Phosphatase That Can Act as a Tumor Suppressor. Cancer Discovery, 2015, 5, 730-739.	9.4	72
26	Basal expression of interferon regulatory factor 1 drives intrinsic hepatocyte resistance to multiple RNA viruses. Nature Microbiology, 2019, 4, 1096-1104.	13.3	69
27	LYCAT, a homologue of C. elegans acl-8,acl-9, and acl-10, determines the fatty acid composition of phosphatidylinositol in mice. Journal of Lipid Research, 2012, 53, 335-347.	4.2	61
28	Essential role of the TRIC-B channel in Ca2+ handling of alveolar epithelial cells and in perinatal lung maturation. Development (Cambridge), 2009, 136, 2355-2361.	2.5	60
29	Global metabolomic analysis of heart tissue in a hamster model for dilated cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2013, 59, 76-85.	1.9	60
30	Arachidonic acid can function as a signaling modulator by activating the TRPM5 cation channel in taste receptor cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 1078-1084.	2.4	57
31	Analysis of oxidized phosphatidylcholines as markers for oxidative stress, using multiple reaction monitoring with theoretically expanded data sets with reversed-phase liquid chromatography/tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 1366-1374.	2.3	55
32	Lysophosphatidic acid acyltransferase 3 tunes the membrane status of germ cells by incorporating docosahexaenoic acid during spermatogenesis. Journal of Biological Chemistry, 2017, 292, 12065-12076.	3.4	53
33	FADS2-dependent fatty acid desaturation dictates cellular sensitivity to ferroptosis and permissiveness for hepatitis C virus replication. Cell Chemical Biology, 2022, 29, 799-810.e4.	5.2	51
34	Fatty Acid Synthesis Is Indispensable for Survival of Human Pluripotent Stem Cells. IScience, 2020, 23, 101535.	4.1	47
35	Very-long-chain polyunsaturated fatty acids accumulate in phosphatidylcholine of fibroblasts from patients with Zellweger syndrome and acyl-CoA oxidase1 deficiency. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 610-619.	2.4	46
36	Salamander retina phospholipids and their localization by MALDI imaging mass spectrometry at cellular size resolution. Journal of Lipid Research, 2011, 52, 463-470.	4.2	36

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37	Increase of oxidantâ€related triglycerides and phosphatidylcholines in serum and small intestinal mucosa during development of intestinal polyp formation in Min mice. Cancer Science, 2011, 102, 79-87.	3.9	35
38	Hair Follicular Expression and Function of Group X Secreted Phospholipase A2 in Mouse Skin. Journal of Biological Chemistry, 2011, 286, 11616-11631.	3.4	34
39	Inter-Laboratory Comparison of Metabolite Measurements for Metabolomics Data Integration. Metabolites, 2019, 9, 257.	2.9	34
40	Qualitative and Quantitative Analyses of Phospholipids by LCâ€“MS for Lipidomics. Methods in Molecular Biology, 2009, 579, 287-313.	0.9	33
41	Metabolic Determinants of Sensitivity to Phosphatidylinositol 3-Kinase Pathway Inhibitor in Small-Cell Lung Carcinoma. Cancer Research, 2018, 78, 2179-2190.	0.9	33
42	PI4P/PS countertransport by ORP10 at ERâ€“endosome membrane contact sites regulates endosome fission. Journal of Cell Biology, 2022, 221, .	5.2	33
43	Roles of C-Terminal Processing, and Involvement in Transacylation Reaction of Human Group IVC Phospholipase A2 (cPLA2Î³). Journal of Biochemistry, 2005, 137, 557-567.	1.7	32
44	Incorporation and remodeling of extracellular phosphatidylcholine with short acyl residues in Saccharomyces cerevisiae. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2008, 1781, 391-399.	2.4	30
45	Histone deacetylase inhibitors inhibit metastasis by restoring a tumor suppressive microRNA-150 in advanced cutaneous T-cell lymphoma. Oncotarget, 2017, 8, 7572-7585.	1.8	27
46	Loss of DDHD2, whose mutation causes spastic paraplegia, promotes reactive oxygen species generation and apoptosis. Cell Death and Disease, 2018, 9, 797.	6.3	24
47	Microglia-released leukotriene B4 promotes neutrophil infiltration and microglial activation following intracerebral hemorrhage. International Immunopharmacology, 2020, 85, 106678.	3.8	24
48	p125/Sec23-interacting protein (Sec23ip) is required for spermiogenesis. FEBS Letters, 2011, 585, 2171-2176.	2.8	23
49	Decrease in membrane phospholipids unsaturation correlates with myocardial diastolic dysfunction. PLoS ONE, 2018, 13, e0208396.	2.5	22
50	Reverse Reaction of Lysophosphatidylinositol Acyltransferase. Journal of Biological Chemistry, 2003, 278, 30382-30393.	3.4	21
51	Novel Regulation of Cardiac Metabolism and Homeostasis by the Adrenomedullin-Receptor Activity-Modifying Protein 2 System. Hypertension, 2013, 61, 341-351.	2.7	21
52	Molecular Species of Phospholipids with Very Long Chain Fatty Acids in Skin Fibroblasts of Zellweger Syndrome. Lipids, 2013, 48, 1253-1267.	1.7	20
53	TMEM55a localizes to macrophage phagosomes to down-regulate phagocytosis. Journal of Cell Science, 2018, 131, .	2.0	20
54	A mass spectrometric method for in-depth profiling of phosphoinositide regioisomers and their disease-associated regulation. Nature Communications, 2022, 13, 83.	12.8	20

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55	Decreased 16:0/20:4-phosphatidylinositol level in the post-mortem prefrontal cortex of elderly patients with schizophrenia. Scientific Reports, 2017, 7, 45050.	3.3	19
56	Vps34 regulates myofibril proteostasis to prevent hypertrophic cardiomyopathy. JCI Insight, 2017, 2, e89462.	5.0	19
57	Increased fatty acyl saturation of phosphatidylinositol phosphates in prostate cancer progression. Scientific Reports, 2019, 9, 13257.	3.3	18
58	Change in the Membranous Lipid Composition Accelerates Lipid Peroxidation in Young Rat Hearts Subjected to 2 Weeks of Hypoxia Followed by Hyperoxia. Circulation Journal, 2008, 72, 1359-1366.	1.6	17
59	Polarized PtdIns(4,5)P ₂ distribution mediated by a voltage-sensing phosphatase (VSP) regulates sperm motility. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26020-26028.	7.1	17
60	The effect and possible clinical efficacy ofin vivoinhibition of neutrophil extracellular traps by blockade of PI3K-gamma on the pathogenesis of microscopic polyangiitis. Modern Rheumatology, 2018, 28, 530-541.	1.8	14
61	Sirt1 counteracts decrease in membrane phospholipid unsaturation and diastolic dysfunction during saturated fatty acid overload. Journal of Molecular and Cellular Cardiology, 2019, 133, 1-11.	1.9	12
62	Plasma membrane phosphatidylinositol (4,5)-bisphosphate is critical for determination of epithelial characteristics. Nature Communications, 2022, 13, 2347.	12.8	9
63	Analysis of Fatty Acid Esters of Hydroxyl Fatty Acid in Nut Oils and Other Plant Oils. Journal of Oleo Science, 2021, 70, 1707-1717.	1.4	8
64	Comprehensive Analysis of Lipid Composition in Human Foremilk and Hindmilk. Journal of Oleo Science, 2022, 71, 947-957.	1.4	8
65	Lysophosphatidylinositolâ€acyltransferaseâ€1 is involved in cytosolic Ca2+oscillations in macrophages. Genes To Cells, 2019, 24, 366-376.	1.2	6
66	Production of Hydroxy Fatty Acids, Precursors of Î³-Hexalactone, Contributes to the Characteristic Sweet Aroma of Beef. Metabolites, 2022, 12, 332.	2.9	6
67	Altering phosphoinositides in highâ€fat dietâ€associated prostate tumor xenograft growth. MedComm, 2021, 2, 756-764.	7.2	3
68	Lipidomics for Elucidation of Metabolic Syndrome and Related Lipid Metabolic Disorder. , 2012, , 233-250.		1
69	Comparative Evaluation of Plasma Metabolomic Data from Multiple Laboratories. Metabolites, 2022, 12, 135.	2.9	1
70	Practical Guide for Lipidomics. Oleoscience, 2021, 21, 329-335.	0.0	0
71	The role of group IIF-secreted phospholipase A2in epidermal homeostasis and hyperplasia. Journal of Cell Biology, 2015, 211, 2111OIA227.	5.2	0