Hiroyuki Arai

List of Publications by Year
in descending order

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Version: 2024-02-01

67	6,301	94381	114418
papers	citations	37 h-index	63 g-index

67	67	67	6557
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ataxia with isolated vitamin E deficiency is caused by mutations in the Î±â€“tocopherol transfer protein. Nature Genetics, 1995, 9, 141-145.	9.4	590
2	Affinity for Î±â€tocopherol transfer protein as a determinant of the biological activities of vitamin E analogs. FEBS Letters, 1997, 409, 105-108.	1.3	556
3	Miller-Dieker lissencephaly gene encodes a subunit of brain platelet-activating factor. Nature, 1994, 370, 216-218.	13.7	481
4	Activation of STING requires palmitoylation at the Golgi. Nature Communications, 2016, 7, 11932.	5.8	436
5	MOLECULAR MECHANISMS OF VITAMIN E TRANSPORT. Annual Review of Nutrition, 1999, 19, 343-355.	4.3	239
6	Adult-Onset Spinocerebellar Dysfunction Caused by a Mutation in the Gene for the Î±-Tocopherolâ€“Transfer Protein. New England Journal of Medicine, 1995, 333, 1313-1319.	13.9	199
7	Identification and Structure Determination of Novel Anti-inflammatory Mediator Resolvin E3, 17,18-Dihydroxyeicosapentaenoic Acid. Journal of Biological Chemistry, 2012, 287, 10525-10534.	1.6	196
8	ABCA3 as a Lipid Transporter in Pulmonary Surfactant Biogenesis. Journal of Biological Chemistry, 2007, 282, 9628-9634.	1.6	193
9	Purification and characterization of the Î±â€tocopherol transfer protein from rat liver. FEBS Letters, 1991, 288, 41-45.	1.3	189
10	Phenotypic Modulation of Vascular Smooth Muscle Cells Induced by Unsaturated Lysophosphatidic Acids. Circulation Research, 2001, 89, 251-258.	2.0	172
11	Î±-Tocopherol Transfer Protein Is Important for the Normal Development of Placental Labyrinthine Trophoblasts in Mice. Journal of Biological Chemistry, 2001, 276, 1669-1672.	1.6	162
12	Autophagosome formation is initiated at phosphatidylinositol synthaseâ€enriched <scp>ER</scp> subdomains. EMBO Journal, 2017, 36, 1719-1735.	3.5	158
13	Nitro-fatty acids are formed in response to virus infection and are potent inhibitors of STING palmitoylation and signaling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7768-E7775.	3.3	150
14	Friedreich-like ataxia with retinitis pigmentosa caused by the His101Gln mutation of the ?-Tocopherol transfer protein gene. Annals of Neurology, 1997, 41, 826-832.	2.8	137
15	18-HEPE, an n-3 fatty acid metabolite released by macrophages, prevents pressure overloadâ€“induced maladaptive cardiac remodeling. Journal of Experimental Medicine, 2014, 211, 1673-1687.	4.2	135
16	Caenorhabditis elegans mboa-7, a Member of the MBOAT Family, Is Required for Selective Incorporation of Polyunsaturated Fatty Acids into Phosphatidylinositol. Molecular Biology of the Cell, 2008, 19, 1174-1184.	0.9	119
17	LPIAT1 regulates arachidonic acid content in phosphatidylinositol and is required for cortical lamination in mice. Molecular Biology of the Cell, 2012, 23, 4689-4700.	0.9	119
18	Impaired Î±-TTP-PIPs Interaction Underlies Familial Vitamin E Deficiency. Science, 2013, 340, 1106-1110.	6.0	117

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19	Small GTPases and phosphoinositides in the regulatory mechanisms of macropinosome formation and maturation. Frontiers in Physiology, 2014, 5, 374.	1.3	116
20	Transport through recycling endosomes requiresÂ <scp>EHD</scp> 1 recruitment by a phosphatidylserineÂtranslocase. EMBO Journal, 2015, 34, 669-688.	3.5	113
21	Dietary Ï‰3 fatty acid exerts anti-allergic effect through the conversion to 17,18-epoxyeicosatetraenoic acid in the gut. Scientific Reports, 2015, 5, 9750.	1.6	112
22	Localization of Î±-tocopherol transfer protein in rat brain. Neuroscience Letters, 1998, 256, 159-162.	1.0	101
23	LPIAT1/MBOAT7 depletion increases triglyceride synthesis fueled by high phosphatidylinositol turnover. Gut, 2021, 70, 180-193.	6.1	86
24	Homeostatic regulation of STING by retrograde membrane traffic to the ER. Nature Communications, 2021, 12, 61.	5.8	80
25	Visualization of the heterogeneous membrane distribution of sphingomyelin associated with cytokinesis, cell polarity, and sphingolipidosis. FASEB Journal, 2015, 29, 477-493.	0.2	76
26	Intracellular Transport of Fatâ€Soluble Vitamins A and E. Traffic, 2015, 16, 19-34.	1.3	70
27	Retinitis Pigmentosa and Ataxia Caused by a Mutation in the Gene for the Î±-Tocopherolâ€“Transfer Protein. New England Journal of Medicine, 1996, 335, 1770-1771.	13.9	67
28	The binding of TBK1 to STING requires exocytic membrane traffic from the ER. Biochemical and Biophysical Research Communications, 2018, 503, 138-145.	1.0	66
29	Predominant localization of phosphatidylserine at the cytoplasmic leaflet of the ER, and its TMEM16K-dependent redistribution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13368-13373.	3.3	63
30	pH-dependent translocation of Î±-tocopherol transfer protein (Î±-TTP) between hepatic cytosol and late endosomes. Genes To Cells, 2003, 8, 789-800.	0.5	62
31	Matrix Metalloproteinase (MMP)-9 in Cancer-Associated Fibroblasts (CAFs) Is Suppressed by Omega-3 Polyunsaturated Fatty Acids In Vitro and In Vivo. PLoS ONE, 2014, 9, e89605.	1.1	58
32	CD36, a Member of Class B Scavenger Receptor Family, Is a Receptor for Advanced Glycation End Products. Annals of the New York Academy of Sciences, 2001, 947, 350-355.	1.8	57
33	Maternal dietary imbalance between omega-6 and omega-3 polyunsaturated fatty acids impairs neocortical development via epoxy metabolites. Stem Cells, 2016, 34, 470-482.	1.4	54
34	The acyltransferase LYCAT controls specific phosphoinositides and related membrane traffic. Molecular Biology of the Cell, 2017, 28, 161-172.	0.9	52
35	Omega-3 fatty acid epoxides are autocrine mediators that control the magnitude of IgE-mediated mast cell activation. Nature Medicine, 2017, 23, 1287-1297.	15.2	48
36	ATP-Binding cassette transporter A1 is involved in hepatic Î±-tocopherol secretion. Journal of Nutritional Biochemistry, 2010, 21, 451-456.	1.9	47

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37	Osh Proteins Control Nanoscale Lipid Organization Necessary for PI(4,5)P2 Synthesis. Molecular Cell, 2019, 75, 1043-1057.e8.	4.5	47
38	Binding of Î±-tocopherylquinone, an oxidized form of Î±-tocopherol, to glutathione-S-transferase in the liver cytosol. FEBS Letters, 1998, 436, 424-426.	1.3	41
39	Transport of cholera toxin B-subunit from recycling endosomes to the Golgi requires clathrin and AP-1. Journal of Cell Science, 2015, 128, 3131-42.	1.2	38
40	Platelet-activating factor acetylhydrolases: An overview and update. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 922-931.	1.2	38
41	Vitamin E Is Essential for Mouse Placentation but Not for Embryonic Development Itself. Biology of Reproduction, 2005, 73, 983-987.	1.2	36
42	Eosinophils control the resolution of inflammation and draining lymph node hypertrophy through the proresolving mediators and CXCL13 pathway in mice. FASEB Journal, 2014, 28, 4036-4043.	0.2	36
43	Endosomal phosphatidylserine is critical for the YAP signalling pathway in proliferating cells. Nature Communications, 2017, 8, 1246.	5.8	36
44	Age-related Changes of .ALPHA.-Tocopherol Transfer Protein Expression in Rat Liver.. Journal of Nutritional Science and Vitaminology, 1996, 42, 11-18.	0.2	33
45	Elucidation of Gut Microbiota-Associated Lipids Using LC-MS/MS and 16S rRNA Sequence Analyses. IScience, 2020, 23, 101841.	1.9	33
46	PI4P/PS countertransport by ORP10 at ERâ€“endosome membrane contact sites regulates endosome fission. Journal of Cell Biology, 2022, 221, .	2.3	33
47	Homologs of the ?- and ?-subunits of mammalian brain platelet-activating factor acetylhydrolase Ib in theDrosophila melanogaster genome. , 2000, 39, 1-8.		25
48	Lysophosphatidylcholine acyltransferase 1 protects against cytotoxicity induced by polyunsaturated fatty acids. FASEB Journal, 2016, 30, 2027-2039.	0.2	24
49	Regulation of hepatic cholesterol synthesis by a novel protein (SPF) that accelerates cholesterol biosynthesis. FASEB Journal, 2006, 20, 2642-2644.	0.2	22
50	Î±-Tocopherol transfer protein (Î±-TTP). Free Radical Biology and Medicine, 2021, 176, 162-175.	1.3	21
51	Mammalian homologue ofE. coliras-like GTPase (ERA) is a possible apoptosis regulator with RNA binding activity. Genes To Cells, 2001, 6, 987-1001.	0.5	19
52	Identification of 14,20-dihydroxy-docosahexaenoic acid as a novel anti-inflammatory metabolite. Journal of Biochemistry, 2014, 156, 315-321.	0.9	18
53	A Novel Role for Î±-Tocopherol Transfer Protein (Î±-TTP) in Protecting against Chloroquine Toxicity. Journal of Biological Chemistry, 2012, 287, 2926-2934.	1.6	17
54	Mg2+ Extrusion from Intestinal Epithelia by CNNM Proteins Is Essential for Gonadogenesis via AMPK-TORC1 Signaling in Caenorhabditis elegans. PLoS Genetics, 2016, 12, e1006276.	1.5	16

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55	A cell-free assay implicates a role of sphingomyelin and cholesterol in STING phosphorylation. Scientific Reports, 2021, 11, 11996.	1.6	14
56	Role of Phosphatidylethanolamine Biosynthesis in Herpes Simplex Virus 1-Infected Cells in Progeny Virus Morphogenesis in the Cytoplasm and in Viral Pathogenicity In Vivo. Journal of Virology, 2020, 94, .	1.5	13
57	Omega-3 fatty acid epoxides produced by PAF-AH2 in mast cells regulate pulmonary vascular remodeling. Nature Communications, 2022, 13, .	5.8	13
58	Intracellular PAF-Acetylhydrolase Type I. The Enzymes, 2015, 38, 23-36.	0.7	12
59	Therapeutic effects of flurbiprofen axetil on mesenteric traction syndrome: randomized clinical trial. BMC Surgery, 2017, 17, 90.	0.6	10
60	Intracellular Platelet-Activating Factor Acetylhydrolase, Type II. The Enzymes, 2015, 38, 43-54.	0.7	9
61	Developmental changes in the expression of Î±-tocopherol transfer protein during the neonatal period of rat. BioFactors, 1998, 7, 87-91.	2.6	7
62	Magnetic Separation of Autophagosomes from Mammalian Cells Using Magneticâ€“Plasmonic Hybrid Nanobeads. ACS Omega, 2017, 2, 4929-4937.	1.6	6
63	Reelin deficiency leads to aberrant lipid composition in mouse brain. Biochemical and Biophysical Research Communications, 2018, 505, 81-86.	1.0	5
64	Supercritical fluid chromatography-mass spectrometry enables simultaneous measurement of all phosphoinositide regioisomers. Communications Chemistry, 2022, 5, .	2.0	3
65	Structure and Function of Plasma Lipoprotein. Journal of Japan Oil Chemists Society, 1991, 40, 858-868.	0.1	0
66	.ALPHA.-Tocopherol Transfer Protein and Familial Vitamin E Deficiency.. Journal of Japan Oil Chemists' Society, 1996, 45, 425-434.	0.3	0
67	Recent Progress in Intracellular Lipid Transport. The Journal of Japan Atherosclerosis Society, 1997, 24, 771-779.	0.0	0