

Makoto Murakami

List of Publications by Year in descending order

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105
papers

8,115
citations

44069

48
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48315

88
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106
all docs

106
docs citations

106
times ranked

6523
citing authors

#	ARTICLE	IF	CITATIONS
1	Phospholipase A2. <i>Journal of Biochemistry</i> , 2002, 131, 285-292.	1.7	453
2	Recent progress in phospholipase A2 research: From cells to animals to humans. <i>Progress in Lipid Research</i> , 2011, 50, 152-192.	11.6	437
3	The Functions of Five Distinct Mammalian Phospholipase A2s in Regulating Arachidonic Acid Release. <i>Journal of Biological Chemistry</i> , 1998, 273, 14411-14423.	3.4	352
4	Mammalian non-pancreatic phospholipases A2. <i>Lipids and Lipid Metabolism</i> , 1993, 1170, 217-231.	2.6	333
5	Functional Coupling Between Various Phospholipase A2s and Cyclooxygenases in Immediate and Delayed Prostanoid Biosynthetic Pathways. <i>Journal of Biological Chemistry</i> , 1999, 274, 3103-3115.	3.4	328
6	Recent advances in molecular biology and physiology of the prostaglandin E2-biosynthetic pathway. <i>Progress in Lipid Research</i> , 2004, 43, 3-35.	11.6	314
7	Cellular Prostaglandin E2 Production by Membrane-bound Prostaglandin E Synthase-2 via Both Cyclooxygenases-1 and -2. <i>Journal of Biological Chemistry</i> , 2003, 278, 37937-37947.	3.4	300
8	Prostaglandin E synthase. <i>Prostaglandins and Other Lipid Mediators</i> , 2002, 68-69, 383-399.	1.9	219
9	Secreted phospholipase A2 revisited. <i>Journal of Biochemistry</i> , 2011, 150, 233-255.	1.7	204
10	Exogenously Added Human Group X Secreted Phospholipase A2 but Not the Group IB, IIA, and V Enzymes Efficiently Release Arachidonic Acid from Adherent Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 3179-3191.	3.4	202
11	A new era of secreted phospholipase A2. <i>Journal of Lipid Research</i> , 2015, 56, 1248-1261.	4.2	186
12	Cytosolic Phospholipase A2 Is Required for Cytokine-induced Expression of Type IIA Secretory Phospholipase A2 That Mediates Optimal Cyclooxygenase-2-dependent Delayed Prostaglandin E2 Generation in Rat 3Y1 Fibroblasts. <i>Journal of Biological Chemistry</i> , 1998, 273, 1733-1740.	3.4	181
13	Distinct Arachidonate-releasing Functions of Mammalian Secreted Phospholipase A2s in Human Embryonic Kidney 293 and Rat Mastocytoma RBL-2H3 Cells through Heparan Sulfate Shuttling and External Plasma Membrane Mechanisms. <i>Journal of Biological Chemistry</i> , 2001, 276, 10083-10096.	3.4	162
14	Emerging roles of secreted phospholipase A2 enzymes: Lessons from transgenic and knockout mice. <i>Biochimie</i> , 2010, 92, 561-582.	2.6	141
15	Prostaglandin E Synthase: A Novel Drug Target for Inflammation and Cancer. <i>Current Pharmaceutical Design</i> , 2006, 12, 943-954.	1.9	138
16	Type II Secretory Phospholipase A2 Associated with Cell Surfaces via C-terminal Heparin-binding Lysine Residues Augments Stimulus-initiated Delayed Prostaglandin Generation. <i>Journal of Biological Chemistry</i> , 1996, 271, 30041-30051.	3.4	133
17	Secretory Phospholipase A2. <i>Biological and Pharmaceutical Bulletin</i> , 2004, 27, 1158-1164.	1.4	124
18	Critical role of phospholipase A2 group IID in age-related susceptibility to severe acute respiratory syndrome—CoV infection. <i>Journal of Experimental Medicine</i> , 2015, 212, 1851-1868.	8.5	123

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19	Mast cell maturation is driven via a group III phospholipase A2-prostaglandin D2- DP1 receptor paracrine axis. <i>Nature Immunology</i> , 2013, 14, 554-563.	14.5	122
20	Lymphoid tissue phospholipase A2 group IID resolves contact hypersensitivity by driving antiinflammatory lipid mediators. <i>Journal of Experimental Medicine</i> , 2013, 210, 1217-1234.	8.5	119
21	Updating Phospholipase A2 Biology. <i>Biomolecules</i> , 2020, 10, 1457.	4.0	117
22	The Adipocyte-Inducible Secreted Phospholipases PLA2G5 and PLA2G2E Play Distinct Roles in Obesity. <i>Cell Metabolism</i> , 2014, 20, 119-132.	16.2	110
23	Analyses of Group III Secreted Phospholipase A2 Transgenic Mice Reveal Potential Participation of This Enzyme in Plasma Lipoprotein Modification, Macrophage Foam Cell Formation, and Atherosclerosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 33483-33497.	3.4	107
24	PNPLA1 has a crucial role in skin barrier function by directing acylceramide biosynthesis. <i>Nature Communications</i> , 2017, 8, 14609.	12.8	107
25	Group III secreted phospholipase A2 regulates epididymal sperm maturation and fertility in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 1400-1414.	8.2	100
26	A new era of secreted phospholipase A ₂ . <i>Journal of Lipid Research</i> , 2015, 56, 1248-1261.	4.2	99
27	Transgenic Expression of Group V, but Not Group X, Secreted Phospholipase A2 in Mice Leads to Neonatal Lethality because of Lung Dysfunction. <i>Journal of Biological Chemistry</i> , 2006, 281, 36420-36433.	3.4	89
28	Regulation of type V phospholipase A2 expression and function by proinflammatory stimuli. <i>FEBS Journal</i> , 1999, 263, 826-835.	0.2	85
29	The role of group IIF-secreted phospholipase A2 in epidermal homeostasis and hyperplasia. <i>Journal of Experimental Medicine</i> , 2015, 212, 1901-1919.	8.5	84
30	Eicosanoid signalling blockade protects middle-aged mice from severe COVID-19. <i>Nature</i> , 2022, 605, 146-151.	27.8	82
31	Expression of secretory phospholipase A2 enzymes in lungs of humans with pneumonia and their potential prostaglandin-synthetic function in human lung-derived cells. <i>Biochemical Journal</i> , 2005, 387, 27-38.	3.7	77
32	Emerging roles of secreted phospholipase A2 enzymes: The 3rd edition. <i>Biochimie</i> , 2014, 107, 105-113.	2.6	75
33	Regulatory Functions of Phospholipase A2. <i>Critical Reviews in Immunology</i> , 2017, 37, 121-179.	0.5	75
34	New phospholipase A2 isozymes with a potential role in atherosclerosis. <i>Current Opinion in Lipidology</i> , 2003, 14, 431-436.	2.7	73
35	Cellular Arachidonate-releasing Function of Novel Classes of Secretory Phospholipase A2s (Groups III) Tj ETQq1 1 0.784314 rgBT /Ove	3.4	71
36	Parkinson's disease-associated <i>PLA2-VIA</i> PLA2G6 regulates neuronal functions and α -synuclein stability through membrane remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20689-20699.	7.1	67

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37	Group X Secreted Phospholipase A2 Releases ω 3 Polyunsaturated Fatty Acids, Suppresses Colitis, and Promotes Sperm Fertility. <i>Journal of Biological Chemistry</i> , 2016, 291, 6895-6911.	3.4	66
38	Cellular Distribution, Post-translational Modification, and Tumorigenic Potential of Human Group III Secreted Phospholipase A2. <i>Journal of Biological Chemistry</i> , 2005, 280, 24987-24998.	3.4	65
39	Group X phospholipase A2 is released during sperm acrosome reaction and controls fertility outcome in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 1415-1428.	8.2	65
40	Cellular Arachidonate-releasing Function and Inflammation-associated Expression of Group IIF Secretory Phospholipase A2. <i>Journal of Biological Chemistry</i> , 2002, 277, 19145-19155.	3.4	63
41	Induction of distinct sets of secretory phospholipase A2 in rodents during inflammation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2003, 1635, 37-47.	2.4	63
42	Expression of secretory phospholipase A2s in human atherosclerosis development. <i>Atherosclerosis</i> , 2008, 196, 81-91.	0.8	60
43	Group X Secreted Phospholipase A2 Limits the Development of Atherosclerosis in LDL Receptor ^{-/-} Null Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 466-473.	2.4	60
44	Diverse cellular localizations of secretory phospholipase A2 enzymes in several human tissues. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1736, 200-210.	2.4	58
45	Group VIB Ca ²⁺ -independent Phospholipase A2 ³ Promotes Cellular Membrane Hydrolysis and Prostaglandin Production in a Manner Distinct from Other Intracellular Phospholipases A2. <i>Journal of Biological Chemistry</i> , 2005, 280, 14028-14041.	3.4	57
46	Dual Roles of Group IID Phospholipase A2 in Inflammation and Cancer. <i>Journal of Biological Chemistry</i> , 2016, 291, 15588-15601.	3.4	55
47	Human group III secreted phospholipase A2 promotes neuronal outgrowth and survival. <i>Biochemical Journal</i> , 2008, 409, 429-438.	3.7	53
48	Group III secreted phospholipase A2 transgenic mice spontaneously develop inflammation. <i>Biochemical Journal</i> , 2009, 421, 17-27.	3.7	52
49	Arachidonate Release and Eicosanoid Generation by Group IIE Phospholipase A2. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 689-696.	2.1	51
50	Lipoquality control by phospholipase A ₂ enzymes. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2017, 93, 677-702.	3.8	49
51	Omega-3 fatty acid epoxides are autocrine mediators that control the magnitude of IgE-mediated mast cell activation. <i>Nature Medicine</i> , 2017, 23, 1287-1297.	30.7	48
52	Identification of NDRG1 as an early inducible gene during in vitro maturation of cultured mast cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 339-346.	2.1	47
53	Impaired Mast Cell Maturation and Degranulation and Attenuated Allergic Responses in <i>NdrG1</i> -Deficient Mice. <i>Journal of Immunology</i> , 2007, 178, 7042-7053.	0.8	47
54	Physiological Roles of Group X-secreted Phospholipase A2 in Reproduction, Gastrointestinal Phospholipid Digestion, and Neuronal Function. <i>Journal of Biological Chemistry</i> , 2011, 286, 11632-11648.	3.4	46

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55	Novel functions of phospholipase A2s: Overview. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 763-765.	2.4	46
56	Deficiency of Phospholipase A2 Receptor Exacerbates Ovalbumin-Induced Lung Inflammation. <i>Journal of Immunology</i> , 2013, 191, 1021-1028.	0.8	44
57	Autotaxin α -lysophosphatidic acid α \langle scp>LPA \langle /scp> \langle sub> 3 \langle /sub> signaling at the embryo α -epithelial boundary controls decidualization pathways. <i>EMBO Journal</i> , 2017, 36, 2146-2160.	7.8	44
58	Secreted Phospholipase PLA2G2D Contributes to Metabolic Health by Mobilizing γ -3 Polyunsaturated Fatty Acids in WAT. <i>Cell Reports</i> , 2020, 31, 107579.	6.4	42
59	The role of PNPLA1 in γ -O-acylceramide synthesis and skin barrier function. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 869-879.	2.4	40
60	Role of cytosolic phospholipase A2 in the production of lipid mediators and histamine release in mouse bone-marrow-derived mast cells. <i>Biochemical Journal</i> , 2000, 352, 311-317.	3.7	39
61	Group III phospholipase A2 promotes colitis and colorectal cancer. <i>Scientific Reports</i> , 2017, 7, 12261.	3.3	36
62	Hair Follicular Expression and Function of Group X Secreted Phospholipase A2 in Mouse Skin. <i>Journal of Biological Chemistry</i> , 2011, 286, 11616-11631.	3.4	34
63	Arachidonate release and prostaglandin production by group IVC phospholipase A2 (cytosolic) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.7	32
64	Matrix Metalloproteinase α 2 Negatively Regulates Cardiac Secreted Phospholipase A \langle sub>2 \langle /sub> to Modulate Inflammation and Fever. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	31
65	Secreted phospholipase A2 and mast cells. <i>Allergology International</i> , 2015, 64, 4-10.	3.3	31
66	Secreted phospholipase A2 modifies extracellular vesicles and accelerates B cell lymphoma. <i>Cell Metabolism</i> , 2022, 34, 615-633.e8.	16.2	31
67	Prostaglandin E2-EP4 Axis Promotes Lipolysis and Fibrosis in Adipose Tissue Leading to Ectopic Fat Deposition and Insulin Resistance. <i>Cell Reports</i> , 2020, 33, 108265.	6.4	30
68	Polyunsaturated fatty acids potentiate interleukin-1-stimulated arachidonic acid release by cells overexpressing type IIA secretory phospholipase A2. <i>FEBS Letters</i> , 1999, 453, 81-84.	2.8	29
69	Group IID heparin-binding secretory phospholipase A2 is expressed in human colon carcinoma cells and human mast cells and up-regulated in mouse inflammatory tissues. <i>FEBS Journal</i> , 2002, 269, 2698-2707.	0.2	27
70	Secreted phospholipase A2, lipoprotein hydrolysis, and atherosclerosis: integration with lipidomics. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1829-1842.	3.7	27
71	Analysis of Two Major Intracellular Phospholipases A2 (PLA2) in Mast Cells Reveals Crucial Contribution of Cytosolic PLA2 α , Not Ca $^{2+}$ -independent PLA2 β , to Lipid Mobilization in Proximal Mast Cells and Distal Fibroblasts. <i>Journal of Biological Chemistry</i> , 2011, 286, 37249-37263.	3.4	27
72	Activation of inflammation and resolution pathways of lipid mediators in synovial fluid from patients with severe rheumatoid arthritis compared with severe osteoarthritis. <i>Asia Pacific Allergy</i> , 2020, 10, e21.	1.3	27

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73	The interaction of secreted phospholipase A2-IIA with the microbiota alters its lipidome and promotes inflammation. <i>JCI Insight</i> , 2022, 7, .	5.0	26
74	Expression and Function of Group IIE Phospholipase A2 in Mouse Skin. <i>Journal of Biological Chemistry</i> , 2016, 291, 15602-15613.	3.4	25
75	Autophagy Is Required for Maturation of Surfactant-Containing Lamellar Bodies in the Lung and Swim Bladder. <i>Cell Reports</i> , 2020, 33, 108477.	6.4	25
76	Phospholipase D is involved in cytosolic phospholipase A2-dependent selective release of arachidonic acid by fMLP-stimulated rat neutrophils. <i>FEBS Letters</i> , 1996, 395, 293-298.	2.8	24
77	Group IIA secreted phospholipase A2 controls skin carcinogenesis and psoriasis by shaping the gut microbiota. <i>JCI Insight</i> , 2022, 7, .	5.0	24
78	Agonist stimulation of B1 and B2 kinin receptors causes activation of the MAP kinase signaling pathway, resulting in the translocation of AP-1 in HEK 293 cells. <i>FEBS Letters</i> , 1998, 435, 96-100.	2.8	23
79	Hot Topics in Phospholipase A2 Field. <i>Biological and Pharmaceutical Bulletin</i> , 2004, 27, 1179-1182.	1.4	23
80	Tanshinone IIA suppresses Fc ϵ RI-mediated mast cell signaling and anaphylaxis by activation of the Sirt1/LKB1/AMPK pathway. <i>Biochemical Pharmacology</i> , 2018, 152, 362-372.	4.4	21
81	Perinuclear localization of cytosolic phospholipase A2 $\hat{\pm}$ is important but not obligatory for coupling with cyclooxygenases. <i>FEBS Letters</i> , 2003, 546, 251-256.	2.8	20
82	Unique Membrane Interaction Mode of Group IIF Phospholipase A2. <i>Journal of Biological Chemistry</i> , 2006, 281, 32741-32754.	3.4	20
83	Phospholipase A2 in skin biology: new insights from gene-manipulated mice and lipidomics. <i>Inflammation and Regeneration</i> , 2018, 38, 31.	3.7	20
84	Group IID, IIE, IIF and III secreted phospholipase A2s. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 803-818.	2.4	20
85	Detection of secretory phospholipase A2s related but not identical to type IIA isozyme in cultured mast cells. <i>FEBS Letters</i> , 1997, 413, 249-254.	2.8	19
86	Functional crosstalk between phospholipase D2 and signaling phospholipase A2 /cyclooxygenase-2-mediated prostaglandin biosynthetic pathways. <i>FEBS Letters</i> , 2000, 475, 242-246.	2.8	19
87	Group VIB Calcium-Independent Phospholipase A2 (iPLA2 $\hat{3}$) Regulates Platelet Activation, Hemostasis and Thrombosis in Mice. <i>PLoS ONE</i> , 2014, 9, e109409.	2.5	19
88	Primary cilium suppression by SREBP1c involves distortion of vesicular trafficking by PLA2G3. <i>Molecular Biology of the Cell</i> , 2015, 26, 2321-2332.	2.1	18
89	Critical role for cytosolic group IVA phospholipase A2 in early adipocyte differentiation and obesity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1083-1095.	2.4	16
90	Group V secreted phospholipase A2 plays a protective role against aortic dissection. <i>Journal of Biological Chemistry</i> , 2020, 295, 10092-10111.	3.4	16

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91	The orphan nuclear receptor NR4A1 promotes Fc μ R1 α -stimulated mast cell activation and anaphylaxis by counteracting the inhibitory LKB1/AMPK axis. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 1145-1156.	5.7	14
92	Red-kerneled rice proanthocyanidin inhibits arachidonate 5-lipoxygenase and decreases psoriasis-like skin inflammation. <i>Archives of Biochemistry and Biophysics</i> , 2020, 689, 108307.	3.0	13
93	Coronavirus-specific antibody production in middle-aged mice requires phospholipase A2G2D. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	12
94	Old but New: Group IIA Phospholipase A2 as a Modulator of Gut Microbiota. <i>Metabolites</i> , 2022, 12, 352.	2.9	12
95	Group IVE cytosolic phospholipase A ₂ limits psoriatic inflammation by mobilizing the anti-inflammatory lipid <i>N</i> -acylethanolamine. <i>FASEB Journal</i> , 2022, 36, e22301.	0.5	12
96	The expression of phospholipase A2 group X is inversely associated with metastasis in colorectal cancer. <i>Oncology Letters</i> , 2013, 5, 533-538.	1.8	11
97	Functional coupling between Phospholipase a2s and cyclooxygenases in immediate and delayed prostanoid biosynthetic pathways. <i>Advances in Experimental Medicine and Biology</i> , 2002, 507, 15-19.	1.6	10
98	Regulatory Roles of Phospholipase A2 Enzymes and Bioactive Lipids in Mast Cell Biology. <i>Frontiers in Immunology</i> , 0, 13, .	4.8	8
99	Phospholipase A2 Group III and Group X Have Opposing Associations with Prognosis in Colorectal Cancer. <i>Anticancer Research</i> , 2015, 35, 2983-90.	1.1	7
100	Segregated functions of two cytosolic phospholipase A2 isoforms (cPLA2 α and cPLA2 β) in lipid mediator generation. <i>Biochemical Pharmacology</i> , 2022, 203, 115176.	4.4	7
101	Mast Cell-Specific Deletion of Group III Secreted Phospholipase A2 Impairs Mast Cell Maturation and Functions. <i>Cells</i> , 2021, 10, 1691.	4.1	6
102	Positive and negative roles of lipids in mast cells and allergic responses. <i>Current Opinion in Immunology</i> , 2021, 72, 186-195.	5.5	6
103	Abnormal male reproduction and embryonic development induced by downregulation of a phospholipid fatty acid-introducing enzyme Lpgat1 in zebrafish. <i>Scientific Reports</i> , 2022, 12, 7312.	3.3	5
104	Group V Secretory Phospholipase A ₂ Regulates Endocytosis of Acetylated LDL by Transcriptional Activation of PGK1 in RAW264.7 Macrophage Cell Line. <i>Journal of Atherosclerosis and Thrombosis</i> , 2021, , .	2.0	2
105	Lipid-Orchestrated Acceleration of Epstein-Barr Virus-Induced B-Cell Lymphoma Via the Secreted Phospholipase A ₂ -Mediated Modification of Exosomes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1