

# Makoto Murakami

## List of Publications by Year in descending order

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105  
papers

8,115  
citations

44069

48  
h-index

48315

88  
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106  
all docs

106  
docs citations

106  
times ranked

6523  
citing authors

#	ARTICLE	IF	CITATIONS
1	Group IIA secreted phospholipase A2 controls skin carcinogenesis and psoriasis by shaping the gut microbiota. JCI Insight, 2022, 7, .	5.0	24
2	The interaction of secreted phospholipase A2-IIA with the microbiota alters its lipidome and promotes inflammation. JCI Insight, 2022, 7, .	5.0	26
3	Eicosanoid signalling blockade protects middle-aged mice from severe COVID-19. Nature, 2022, 605, 146-151.	27.8	82
4	Secreted phospholipase A2 modifies extracellular vesicles and accelerates B cell lymphoma. Cell Metabolism, 2022, 34, 615-633.e8.	16.2	31
5	Old but New: Group IIA Phospholipase A2 as a Modulator of Gut Microbiota. Metabolites, 2022, 12, 352.	2.9	12
6	Group IVE cytosolic phospholipase A <sub>2</sub> limits psoriatic inflammation by mobilizing the anti-inflammatory lipid <i>N</i> -acylethanolamine. FASEB Journal, 2022, 36, e22301.	0.5	12
7	Abnormal male reproduction and embryonic development induced by downregulation of a phospholipid fatty acid-introducing enzyme Lpgat1 in zebrafish. Scientific Reports, 2022, 12, 7312.	3.3	5
8	Segregated functions of two cytosolic phospholipase A2 isoforms (cPLA2 $\alpha$ and cPLA2 $\beta$ ) in lipid mediator generation. Biochemical Pharmacology, 2022, 203, 115176.	4.4	7
9	Group V Secretory Phospholipase A <sub>2</sub> Regulates Endocytosis of Acetylated LDL by Transcriptional Activation of PGK1 in RAW264.7 Macrophage Cell Line. Journal of Atherosclerosis and Thrombosis, 2021, , .	2.0	2
10	Coronavirus-specific antibody production in middle-aged mice requires phospholipase A2G2D. Journal of Clinical Investigation, 2021, 131, .	8.2	12
11	Mast Cell-Specific Deletion of Group III Secreted Phospholipase A2 Impairs Mast Cell Maturation and Functions. Cells, 2021, 10, 1691.	4.1	6
12	Positive and negative roles of lipids in mast cells and allergic responses. Current Opinion in Immunology, 2021, 72, 186-195.	5.5	6
13	Prostaglandin E2-EP4 Axis Promotes Lipolysis and Fibrosis in Adipose Tissue Leading to Ectopic Fat Deposition and Insulin Resistance. Cell Reports, 2020, 33, 108265.	6.4	30
14	Updating Phospholipase A2 Biology. Biomolecules, 2020, 10, 1457.	4.0	117
15	Autophagy Is Required for Maturation of Surfactant-Containing Lamellar Bodies in the Lung and Swim Bladder. Cell Reports, 2020, 33, 108477.	6.4	25
16	Secreted Phospholipase PLA2G2D Contributes to Metabolic Health by Mobilizing $\omega$ 3 Polyunsaturated Fatty Acids in WAT. Cell Reports, 2020, 31, 107579.	6.4	42
17	Group V secreted phospholipase A2 plays a protective role against aortic dissection. Journal of Biological Chemistry, 2020, 295, 10092-10111.	3.4	16
18	Red-kerneled rice proanthocyanidin inhibits arachidonate 5-lipoxygenase and decreases psoriasis-like skin inflammation. Archives of Biochemistry and Biophysics, 2020, 689, 108307.	3.0	13

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19	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
20	Parkinson's disease-associated <i>PLA2-VIA</i> PLA2G6 regulates neuronal functions and $\alpha$ -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
21	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
22	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
23	The orphan nuclear receptor NR4A1 promotes Fc $\epsilon$ RI-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
24	The role of PNPLA1 in $\omega$ -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
25	Tanshinone IIA suppresses Fc $\epsilon$ 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
26	Phospholipase A2 in skin biology: new insights from gene-manipulated mice and lipidomics. <i>Inflammation and Regeneration</i> , 2018, 38, 31.	3.7	20
27	PNPLA1 has a crucial role in skin barrier function by directing acylceramide biosynthesis. <i>Nature Communications</i> , 2017, 8, 14609.	12.8	107
28	Autotaxin's lysophosphatidic acid (LPA) <sub>3</sub> signaling at the embryo-epithelial boundary controls decidualization pathways. <i>EMBO Journal</i> , 2017, 36, 2146-2160.	7.8	44
29	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
30	Group III phospholipase A2 promotes colitis and colorectal cancer. <i>Scientific Reports</i> , 2017, 7, 12261.	3.3	36
31	Regulatory Functions of Phospholipase A2. <i>Critical Reviews in Immunology</i> , 2017, 37, 121-179.	0.5	75
32	Lipoquality control by phospholipase A2 enzymes. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2017, 93, 677-702.	3.8	49
33	Expression and Function of Group IIE Phospholipase A2 in Mouse Skin. <i>Journal of Biological Chemistry</i> , 2016, 291, 15602-15613.	3.4	25
34	Group X Secreted Phospholipase A2 Releases $\omega$ 3 Polyunsaturated Fatty Acids, Suppresses Colitis, and Promotes Sperm Fertility. <i>Journal of Biological Chemistry</i> , 2016, 291, 6895-6911.	3.4	66
35	Dual Roles of Group IID Phospholipase A2 in Inflammation and Cancer. <i>Journal of Biological Chemistry</i> , 2016, 291, 15588-15601.	3.4	55
36	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

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37	A new era of secreted phospholipase A <sub>2</sub> . <i>Journal of Lipid Research</i> , 2015, 56, 1248-1261.	4.2	99
38	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
39	A new era of secreted phospholipase A2. <i>Journal of Lipid Research</i> , 2015, 56, 1248-1261.	4.2	186
40	Critical role of phospholipase A2 group IID in age-related susceptibility to severe acute respiratory syndromeâ€“CoV infection. <i>Journal of Experimental Medicine</i> , 2015, 212, 1851-1868.	8.5	123
41	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
42	Matrix Metalloproteinaseâ€“2 Negatively Regulates Cardiac Secreted Phospholipase A <sub>2</sub> to Modulate Inflammation and Fever. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	31
43	Secreted phospholipase A2 and mast cells. <i>Allergology International</i> , 2015, 64, 4-10.	3.3	31
44	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
45	Group VIB Calcium-Independent Phospholipase A2 (iPLA2 <sup>3</sup> ) Regulates Platelet Activation, Hemostasis and Thrombosis in Mice. <i>PLoS ONE</i> , 2014, 9, e109409.	2.5	19
46	Emerging roles of secreted phospholipase A2 enzymes: The 3rd Edition. <i>Biochimie</i> , 2014, 107, 105-113.	2.6	75
47	The Adipocyte-Inducible Secreted Phospholipases PLA2G5 and PLA2G2E Play Distinct Roles in Obesity. <i>Cell Metabolism</i> , 2014, 20, 119-132.	16.2	110
48	Deficiency of Phospholipase A2 Receptor Exacerbates Ovalbumin-Induced Lung Inflammation. <i>Journal of Immunology</i> , 2013, 191, 1021-1028.	0.8	44
49	Mast cell maturation is driven via a group III phospholipase A2-prostaglandin D2â€“DP1 receptor paracrine axis. <i>Nature Immunology</i> , 2013, 14, 554-563.	14.5	122
50	Group X Secreted Phospholipase A2 Limits the Development of Atherosclerosis in LDL Receptorâ€“Null Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 466-473.	2.4	60
51	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
52	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
53	Secreted phospholipase A2 revisited. <i>Journal of Biochemistry</i> , 2011, 150, 233-255.	1.7	204
54	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

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55	Secreted phospholipase A2, lipoprotein hydrolysis, and atherosclerosis: integration with lipidomics. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1829-1842.	3.7	27
56	Analysis of Two Major Intracellular Phospholipases A2 (PLA2) in Mast Cells Reveals Crucial Contribution of Cytosolic PLA2 <sup>1</sup> , Not Ca <sup>2+</sup> -independent PLA2 <sup>2</sup> , to Lipid Mobilization in Proximal Mast Cells and Distal Fibroblasts. <i>Journal of Biological Chemistry</i> , 2011, 286, 37249-37263.	3.4	27
57	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
58	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
59	Emerging roles of secreted phospholipase A2 enzymes: Lessons from transgenic and knockout mice. <i>Biochimie</i> , 2010, 92, 561-582.	2.6	141
60	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
61	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
62	Group III secreted phospholipase A2 transgenic mice spontaneously develop inflammation. <i>Biochemical Journal</i> , 2009, 421, 17-27.	3.7	52
63	Expression of secretory phospholipase A2s in human atherosclerosis development. <i>Atherosclerosis</i> , 2008, 196, 81-91.	0.8	60
64	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
65	Human group III secreted phospholipase A2 promotes neuronal outgrowth and survival. <i>Biochemical Journal</i> , 2008, 409, 429-438.	3.7	53
66	Impaired Mast Cell Maturation and Degranulation and Attenuated Allergic Responses in <i>Ndr1</i> -Deficient Mice. <i>Journal of Immunology</i> , 2007, 178, 7042-7053.	0.8	47
67	Prostaglandin E Synthase: A Novel Drug Target for Inflammation and Cancer. <i>Current Pharmaceutical Design</i> , 2006, 12, 943-954.	1.9	138
68	Unique Membrane Interaction Mode of Group IIF Phospholipase A2. <i>Journal of Biological Chemistry</i> , 2006, 281, 32741-32754.	3.4	20
69	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
70	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
71	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
72	Group VIB Ca <sup>2+</sup> -independent Phospholipase A2 <sup>3</sup> 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

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73	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
74	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
75	Secretory Phospholipase A2. <i>Biological and Pharmaceutical Bulletin</i> , 2004, 27, 1158-1164.	1.4	124
76	Hot Topics in Phospholipase A2 Field. <i>Biological and Pharmaceutical Bulletin</i> , 2004, 27, 1179-1182.	1.4	23
77	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
78	Perinuclear localization of cytosolic phospholipase A2 is important but not obligatory for coupling with cyclooxygenases. <i>FEBS Letters</i> , 2003, 546, 251-256.	2.8	20
79	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
80	Cellular Arachidonate-releasing Function of Novel Classes of Secretory Phospholipase A2s (Groups III) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	3.4	71
81	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
82	New phospholipase A2 isozymes with a potential role in atherosclerosis. <i>Current Opinion in Lipidology</i> , 2003, 14, 431-436.	2.7	73
83	Arachidonate release and prostaglandin production by group IVC phospholipase A2 (cytosolic) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf</i>	3.7	32
84	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
85	Phospholipase A2. <i>Journal of Biochemistry</i> , 2002, 131, 285-292.	1.7	453
86	Arachidonate Release and Eicosanoid Generation by Group IIE Phospholipase A2. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 689-696.	2.1	51
87	Prostaglandin E synthase. <i>Prostaglandins and Other Lipid Mediators</i> , 2002, 68-69, 383-399.	1.9	219
88	Group IID heparin-binding secretory phospholipase A2s 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
89	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
90	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

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91	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
92	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
93	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
94	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
95	Regulation of type V phospholipase A2 expression and function by proinflammatory stimuli. <i>FEBS Journal</i> , 1999, 263, 826-835.	0.2	85
96	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
97	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
98	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
99	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
100	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
101	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
102	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
103	Mammalian non-pancreatic phospholipases A2. <i>Lipids and Lipid Metabolism</i> , 1993, 1170, 217-231.	2.6	333
104	Lipid-Orchestrated Acceleration of Epstein-Barr Virus-Induced B-Cell Lymphoma Via the Secreted Phospholipase A <sub>2</sub> -Mediated Modification of Exosomes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
105	Regulatory Roles of Phospholipase A2 Enzymes and Bioactive Lipids in Mast Cell Biology. <i>Frontiers in Immunology</i> , 0, 13, .	4.8	8