

MarÃ-a A Balboa

List of Publications by Year in descending order

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101
papers

5,838
citations

44069

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h-index

76900

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102
all docs

102
docs citations

102
times ranked

4639
citing authors

#	ARTICLE	IF	CITATIONS
1	REGULATION AND INHIBITION OF PHOSPHOLIPASE A ₂ . Annual Review of Pharmacology and Toxicology, 1999, 39, 175-189.	9.4	560
2	Novel Group V Phospholipase A2 Involved in Arachidonic Acid Mobilization in Murine P388D1 Macrophages. Journal of Biological Chemistry, 1996, 271, 32381-32384.	3.4	221
3	Antisense Inhibition of Group VI Ca ²⁺ -independent Phospholipase A2 Blocks Phospholipid Fatty Acid Remodeling in Murine P388D1 Macrophages. Journal of Biological Chemistry, 1997, 272, 29317-29321.	3.4	197
4	Cellular regulation and proposed biological functions of group VIA calcium-independent phospholipase A in activated cells. Cellular Signalling, 2005, 17, 1052-1062.	3.6	195
5	Functional coupling between secretory phospholipase A2 and cyclooxygenase-2 and its regulation by cytosolic group IV phospholipase A2. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 7951-7956.	7.1	181
6	Regulation of Delayed Prostaglandin Production in Activated P388D1 Macrophages by Group IV Cytosolic and Group V Secretory Phospholipase A2s. Journal of Biological Chemistry, 1999, 274, 12263-12268.	3.4	149
7	Oxidative stress and arachidonic acid mobilization. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 385-391.	2.4	147
8	Control of free arachidonic acid levels by phospholipases A2 and lysophospholipid acyltransferases. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 1103-1113.	2.4	147
9	Identity between the Ca ²⁺ -independent Phospholipase A2 Enzymes from P388D1 Macrophages and Chinese Hamster Ovary Cells. Journal of Biological Chemistry, 1997, 272, 8576-8580.	3.4	143
10	Dynamics of arachidonic acid mobilization by inflammatory cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 249-256.	2.4	101
11	Lipin-2 regulates NLRP3 inflammasome by affecting P2X7 receptor activation. Journal of Experimental Medicine, 2017, 214, 511-528.	8.5	92
12	Selectivity of phospholipid hydrolysis by phospholipase A2 enzymes in activated cells leading to polyunsaturated fatty acid mobilization. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 772-783.	2.4	92
13	Bromoenoil Lactone Promotes Cell Death by a Mechanism Involving Phosphatidate Phosphohydrolase-1 Rather than Calcium-independent Phospholipase A2. Journal of Biological Chemistry, 2003, 278, 44683-44690.	3.4	88
14	Involvement of Calcium-independent Phospholipase A2 in Hydrogen Peroxide-induced Accumulation of Free Fatty Acids in Human U937 Cells. Journal of Biological Chemistry, 2002, 277, 40384-40389.	3.4	85
15	Lipid Droplet Biogenesis Induced by Stress Involves Triacylglycerol Synthesis That Depends on Group VIA Phospholipase A2. Journal of Biological Chemistry, 2009, 284, 5697-5708.	3.4	84
16	Role of Group VIA Calcium-independent Phospholipase A2 in Arachidonic Acid Release, Phospholipid Fatty Acid Incorporation, and Apoptosis in U937 Cells Responding to Hydrogen Peroxide. Journal of Biological Chemistry, 2004, 279, 40385-40391.	3.4	82
17	Calcium-independent phospholipase A2 and apoptosis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 1344-1350.	2.4	82
18	Group IVA Phospholipase A2 Is Necessary for the Biogenesis of Lipid Droplets. Journal of Biological Chemistry, 2008, 283, 27369-27382.	3.4	82

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19	Lipin-2 Reduces Proinflammatory Signaling Induced by Saturated Fatty Acids in Macrophages. <i>Journal of Biological Chemistry</i> , 2012, 287, 10894-10904.	3.4	74
20	Expression and function of phospholipase A2 in brain. <i>FEBS Letters</i> , 2002, 531, 12-17.	2.8	73
21	Blockade of arachidonic acid incorporation into phospholipids induces apoptosis in U937 promonocytic cells. <i>Journal of Lipid Research</i> , 2006, 47, 484-491.	4.2	73
22	Simultaneous activation of p38 and JNK by arachidonic acid stimulates the cytosolic phospholipase A2-dependent synthesis of lipid droplets in human monocytes. <i>Journal of Lipid Research</i> , 2012, 53, 2343-2354.	4.2	73
23	Phospholipase A2 regulation of lipid droplet formation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1661-1671.	2.4	73
24	Cellular Regulation of Cytosolic Group IV Phospholipase A2 by Phosphatidylinositol Bisphosphate Levels. <i>Journal of Immunology</i> , 2000, 164, 5398-5402.	0.8	71
25	Coordinate Regulation of TLR-Mediated Arachidonic Acid Mobilization in Macrophages by Group IVA and Group V Phospholipase A2s. <i>Journal of Immunology</i> , 2009, 182, 3877-3883.	0.8	69
26	Subcellular Localization and Role of Lipin-1 in Human Macrophages. <i>Journal of Immunology</i> , 2011, 186, 6004-6013.	0.8	67
27	Group V Phospholipase A2-dependent Induction of Cyclooxygenase-2 in Macrophages. <i>Journal of Biological Chemistry</i> , 1999, 274, 25967-25970.	3.4	66
28	Phosphatidylinositol 4,5-Bisphosphate Anchors Cytosolic Group IVA Phospholipase A2 to Perinuclear Membranes and Decreases Its Calcium Requirement for Translocation in Live Cells. <i>Molecular Biology of the Cell</i> , 2006, 17, 155-162.	2.1	66
29	A Phospholipase D-mediated Pathway for Generating Diacylglycerol in Nuclei from Madin-Darby Canine Kidney Cells. <i>Journal of Biological Chemistry</i> , 1995, 270, 11738-11740.	3.4	65
30	Localization of Group V Phospholipase A2 in Caveolin-enriched Granules in Activated P388D1 Macrophage-like Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 48059-48065.	3.4	65
31	Group V Phospholipase A2-mediated Oleic Acid Mobilization in Lipopolysaccharide-stimulated P388D1 Macrophages. <i>Journal of Biological Chemistry</i> , 2000, 275, 4783-4786.	3.4	64
32	Identification of a Third Pathway for Arachidonic Acid Mobilization and Prostaglandin Production in Activated P388D1 Macrophage-like Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 22544-22549.	3.4	64
33	Amplification Mechanisms of Inflammation: Paracrine Stimulation of Arachidonic Acid Mobilization by Secreted Phospholipase A2 Is Regulated by Cytosolic Phospholipase A2-Derived Hydroperoxyeicosatetraenoic Acid. <i>Journal of Immunology</i> , 2003, 171, 989-994.	0.8	64
34	Foamy Monocytes Are Enriched in cis -7-Hexadecenoic Fatty Acid (16:1n-9), a Possible Biomarker for Early Detection of Cardiovascular Disease. <i>Cell Chemical Biology</i> , 2016, 23, 689-699.	5.2	64
35	Nuclear Phospholipase D in Madin-Darby Canine Kidney Cells. <i>Journal of Biological Chemistry</i> , 1995, 270, 29843-29847.	3.4	63
36	Inflammatory Activation of Arachidonic Acid Signaling in Murine P388D1 Macrophages via Sphingomyelin Synthesis. <i>Journal of Biological Chemistry</i> , 1997, 272, 20373-20377.	3.4	63

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37	Involvement of Phosphatidate Phosphohydrolase in Arachidonic Acid Mobilization in Human Amnionic WISH Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 7684-7690.	3.4	63
38	Calcium-Independent Phospholipase A2 Is Required for Lysozyme Secretion in U937 Promonocytes. <i>Journal of Immunology</i> , 2003, 170, 5276-5280.	0.8	63
39	Differential regulation of phospholipase D and phospholipase A2 by protein kinase C in P388D1 macrophages. <i>Biochemical Journal</i> , 1997, 321, 805-810.	3.7	61
40	Group V Secreted Phospholipase A2 Is Upregulated by IL-4 in Human Macrophages and Mediates Phagocytosis via Hydrolysis of Ethanolamine Phospholipids. <i>Journal of Immunology</i> , 2015, 194, 3327-3339.	0.8	60
41	Extracellular ATP and cAMP as Paracrine and Interorgan Regulators of Renal Function P2Y Receptors of MDCK Cells: Epithelial Cell Regulation by Extracellular Nucleotides. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2001, 28, 351-354.	1.9	59
42	TLR3-Dependent Induction of Nitric Oxide Synthase in RAW 264.7 Macrophage-Like Cells via a Cytosolic Phospholipase A2/Cyclooxygenase-2 Pathway. <i>Journal of Immunology</i> , 2007, 179, 4821-4828.	0.8	59
43	Regulation of Phagocytosis in Macrophages by Membrane Ethanolamine Plasmalogens. <i>Frontiers in Immunology</i> , 2018, 9, 1723.	4.8	59
44	Proinflammatory Macrophage-activating Properties of the Novel Phospholipid Diacylglycerol Pyrophosphate. <i>Journal of Biological Chemistry</i> , 1999, 274, 522-526.	3.4	58
45	Levels of <i>SCS7/FA2H</i> -Mediated Fatty Acid 2-Hydroxylation Determine the Sensitivity of Cells to Antitumor PM02734. <i>Cancer Research</i> , 2008, 68, 9779-9787.	0.9	57
46	Signaling Role for Lysophosphatidylcholine Acyltransferase 3 in Receptor-Regulated Arachidonic Acid Reacylation Reactions in Human Monocytes. <i>Journal of Immunology</i> , 2010, 184, 1071-1078.	0.8	56
47	Occurrence and biological activity of palmitoleic acid isomers in phagocytic cells. <i>Journal of Lipid Research</i> , 2018, 59, 237-249.	4.2	53
48	Markers of Monocyte Activation Revealed by Lipidomic Profiling of Arachidonic Acid-Containing Phospholipids. <i>Journal of Immunology</i> , 2010, 184, 3857-3865.	0.8	52
49	Requirement of JNK-Mediated Phosphorylation for Translocation of Group IVA Phospholipase A2 to Phagosomes in Human Macrophages. <i>Journal of Immunology</i> , 2009, 183, 2767-2774.	0.8	48
50	JNK and Ceramide Kinase Govern the Biogenesis of Lipid Droplets through Activation of Group IVA Phospholipase A2. <i>Journal of Biological Chemistry</i> , 2009, 284, 32359-32369.	3.4	48
51	Group V Phospholipase A2-Derived Lysophosphatidylcholine Mediates Cyclooxygenase-2 Induction in Lipopolysaccharide-Stimulated Macrophages. <i>Journal of Immunology</i> , 2007, 179, 631-638.	0.8	47
52	Cytosolic Group IVA and Calcium-Independent Group VIA Phospholipase A2s Act on Distinct Phospholipid Pools in Zymosan-Stimulated Mouse Peritoneal Macrophages. <i>Journal of Immunology</i> , 2014, 192, 752-762.	0.8	47
53	Signaling through the LFA-1 leucocyte integrin actively regulates intercellular adhesion and tumor necrosis factor- α production in natural killer cells. <i>European Journal of Immunology</i> , 1993, 23, 1859-1865.	2.9	46
54	Lipin-1 Integrates Lipid Synthesis with Proinflammatory Responses during TLR Activation in Macrophages. <i>Journal of Immunology</i> , 2014, 193, 4614-4622.	0.8	46

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55	Involvement of Group VIA Calcium-Independent Phospholipase A2 in Macrophage Engulfment of Hydrogen Peroxide-Treated U937 Cells. <i>Journal of Immunology</i> , 2006, 176, 2555-2561.	0.8	42
56	Influence of cellular arachidonic acid levels on phospholipid remodeling and CoA-independent transacylase activity in human monocytes and U937 cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 97-103.	2.4	39
57	Sequestration of 9-Hydroxystearic Acid in FAHFA (Fatty Acid Esters of Hydroxy Fatty Acids) as a Protective Mechanism for Colon Carcinoma Cells to Avoid Apoptotic Cell Death. <i>Cancers</i> , 2019, 11, 524.	3.7	39
58	Phospholipase D activation in human natural killer cells through the Kp43 and CD16 surface antigens takes place by different mechanisms. Involvement of the phospholipase D pathway in tumor necrosis factor alpha synthesis.. <i>Journal of Experimental Medicine</i> , 1992, 176, 9-17.	8.5	38
59	Cellular Plasmalogen Content Does Not Influence Arachidonic Acid Levels or Distribution in Macrophages: A Role for Cytosolic Phospholipase A2 ³ in Phospholipid Remodeling. <i>Cells</i> , 2019, 8, 799.	4.1	36
60	Stimulation of Phospholipase D via β -1-Adrenergic Receptors in Madin-Darby Canine Kidney Cells is Independent of PKC α and β Activation. <i>Molecular Pharmacology</i> , 1998, 53, 221-227.	2.3	34
61	Altered Arachidonate Distribution in Macrophages from Caveolin-1 Null Mice Leading to Reduced Eicosanoid Synthesis. <i>Journal of Biological Chemistry</i> , 2011, 286, 35299-35307.	3.4	32
62	A Phosphatidylinositol Species Acutely Generated by Activated Macrophages Regulates Innate Immune Responses. <i>Journal of Immunology</i> , 2013, 190, 5169-5177.	0.8	32
63	Regulation of Arachidonic Acid Mobilization in Lipopolysaccharide-activated P388D1 Macrophages by Adenosine Triphosphate. <i>Journal of Biological Chemistry</i> , 1999, 274, 36764-36768.	3.4	31
64	Calcium-independent phospholipase α 2 mediates proliferation of human promonocytic U937 cells. <i>FEBS Journal</i> , 2008, 275, 1915-1924.	4.7	31
65	Regulation of Cyclooxygenase-2 Expression by Phosphatidate Phosphohydrolase in Human Amnionic WISH Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 27689-27693.	3.4	29
66	Overexpression of Cytosolic Group IVA Phospholipase A2 Protects Cells from Ca ²⁺ -dependent Death. <i>Journal of Biological Chemistry</i> , 2006, 281, 6106-6116.	3.4	29
67	Calcium-independent phospholipase α 2-mediated formation of 1,2-diacylglycerophosphoinositol in monocytes. <i>FEBS Journal</i> , 2008, 275, 6180-6191.	4.7	29
68	Phosphorylation of Cytosolic Group IV Phospholipase A2 Is Necessary but Not Sufficient for Arachidonic Acid Release in P388D1 Macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2000, 267, 145-148.	2.1	27
69	The phosphatidic acid phosphatase lipin-1 facilitates inflammation-driven colon carcinogenesis. <i>JCI Insight</i> , 2018, 3, .	5.0	27
70	Essential Role for Ethanolamine Plasmalogen Hydrolysis in Bacterial Lipopolysaccharide Priming of Macrophages for Enhanced Arachidonic Acid Release. <i>Frontiers in Immunology</i> , 2017, 8, 1251.	4.8	25
71	Phospholipid sources for adrenic acid mobilization in RAW 264.7 macrophages. Comparison with arachidonic acid. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1386-1393.	2.4	24
72	The role of lipins in innate immunity and inflammation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 1328-1337.	2.4	22

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73	Release of Anti-Inflammatory Palmitoleic Acid and Its Positional Isomers by Mouse Peritoneal Macrophages. <i>Biomedicines</i> , 2020, 8, 480.	3.2	22
74	An ammonium ion-dependent protein synthesis cell-free system for halobacteria. <i>Biochemistry</i> , 1988, 27, 8194-8199.	2.5	21
75	Variability in the expression of a β 2-microglobulin epitope on hepatocytes in chronic type C hepatitis on treatment with interferon. <i>Hepatology</i> , 1993, 17, 372-382.	7.3	21
76	Expression of cytosolic and secreted forms of phospholipase A2 and cyclooxygenases in human placenta, fetal membranes, and chorionic cell lines. <i>Prostaglandins and Other Lipid Mediators</i> , 2000, 60, 119-125.	1.9	21
77	Post-receptor occupancy events in leukocytes during β 1 integrin-ligand interactions. <i>European Journal of Immunology</i> , 1993, 23, 2642-2648.	2.9	19
78	Lipidomic approaches to the study of phospholipase A2-regulated phospholipid fatty acid incorporation and remodeling. <i>Biochimie</i> , 2010, 92, 645-650.	2.6	19
79	The Contribution of Cytosolic Group IVA and Calcium-Independent Group VIA Phospholipase A2s to Adrenic Acid Mobilization in Murine Macrophages. <i>Biomolecules</i> , 2020, 10, 542.	4.0	18
80	The cationic cluster of group IVA phospholipase A2 (Lys488/Lys541/Lys543/Lys544) is involved in translocation of the enzyme to phagosomes in human macrophages. <i>Journal of Lipid Research</i> , 2010, 51, 388-399.	4.2	17
81	Phospholipases: From Structure to Biological Function. <i>Biomolecules</i> , 2021, 11, 428.	4.0	17
82	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
83	P2-purinoceptors utilize multiple signaling pathways in MDCK-D1 cells. <i>Autonomic and Autacoid Pharmacology</i> , 1996, 16, 311-314.	0.6	15
84	Lipid Droplets, Phospholipase A2, Arachidonic Acid, and Atherosclerosis. <i>Biomedicines</i> , 2021, 9, 1891.	3.2	15
85	The Hypoxic Microenvironment Induces Stearoyl-CoA Desaturase-1 Overexpression and Lipidomic Profile Changes in Clear Cell Renal Cell Carcinoma. <i>Cancers</i> , 2021, 13, 2962.	3.7	14
86	Neutral Lipids Are Not a Source of Arachidonic Acid for Lipid Mediator Signaling in Human Foamy Monocytes. <i>Cells</i> , 2019, 8, 941.	4.1	13
87	Phospholipid Arachidonic Acid Remodeling During Phagocytosis in Mouse Peritoneal Macrophages. <i>Biomedicines</i> , 2020, 8, 274.	3.2	12
88	Roles of Palmitoleic Acid and Its Positional Isomers, Hypogeic and Sapienic Acids, in Inflammation, Metabolic Diseases and Cancer. <i>Cells</i> , 2022, 11, 2146.	4.1	12
89	Isoform-specific redistribution of protein kinase C in living cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1996, 1313, 63-71.	4.1	11
90	Relation between the increase of circulating CD3+ CD57+ lymphocytes and T cell dysfunction in recipients of bone marrow transplantation. <i>Clinical and Experimental Immunology</i> , 2008, 82, 145-150.	2.6	11

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91	A Lipidomic Perspective of the Action of Group IIA Secreted Phospholipase A2 on Human Monocytes: Lipid Droplet Biogenesis and Activation of Cytosolic Phospholipase A2. <i>Biomolecules</i> , 2020, 10, 891.	4.0	10
92	Group IV Cytosolic Phospholipase A ₂ Activation by Diacylglycerol Pyrophosphate in Murine P388D ₁ Macrophages. <i>Annals of the New York Academy of Sciences</i> , 2000, 905, 11-15.	3.8	8
93	Arachidonic acid mobilization by stimuli of the innate immune response. <i>Inmunologia (Barcelona)</i> , Tj ETQq1 1 0.784314 rgBT _g /Overlo 0.1		
94	Choline Glycerophospholipid-Derived Prostaglandins Attenuate TNF α Gene Expression in Macrophages via a cPLA ₂ /COX-1 Pathway. <i>Cells</i> , 2021, 10, 447.	4.1	6
95	Inflammatory Activation of Prostaglandin Production by Microglial Cells Antagonized by Amyloid Peptide. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 558-560.	2.1	5
96	Lipin-1-derived diacylglycerol activates intracellular TRPC3 which is critical for inflammatory signaling. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 8243-8260.	5.4	4
97	Phosphorylation of cPLA ₂ at Ser505 Is Necessary for Its Translocation to PtdInsP ₂ -Enriched Membranes. <i>Molecules</i> , 2022, 27, 2347.	3.8	3
98	High toxic efficiency of ricin immunotoxins specific for the t-cell antigen receptor of a human leukemia t-cell line. <i>International Journal of Cancer</i> , 1989, 43, 697-702.	5.1	2
99	Mechanisms for Activation of Multiple Effectors by β -1-Adrenergic Receptors. <i>Advances in Pharmacology</i> , 1997, 42, 451-453.	2.0	2
100	Analysis of different protein kinase C-dependent events in T cells from allogeneic bone marrow transplantation recipients. <i>Clinical and Experimental Immunology</i> , 2008, 87, 478-484.	2.6	2
101	Control of arachidonic acid levels in resting and activated U937 phagocytic cells by Ca ²⁺ -independent phospholipase A ₂ . , 2004, , 61-72.		1