

# Jane McHowat

## List of Publications by Citations

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95  
papers

1,709  
citations

26  
h-index

36  
g-index

101  
ext. papers

1,836  
ext. citations

3.9  
avg, IF

4.54  
L-index

#	Paper	IF	Citations
95	Identification of alpha-chloro fatty aldehydes and unsaturated lysophosphatidylcholine molecular species in human atherosclerotic lesions. <i>Circulation</i> , <b>2003</b> , 108, 3128-33	16.7	167
94	Selective hydrolysis of plasmalogen phospholipids by Ca <sup>2+</sup> -independent PLA <sub>2</sub> in hypoxic ventricular myocytes. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 274, C1727-37	5.4	61
93	Role of an endoplasmic reticulum Ca <sup>2+</sup> -independent phospholipase A <sub>2</sub> in cisplatin-induced renal cell apoptosis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2004</b> , 308, 921-8	4.7	49
92	Genetic and pharmacologic evidence that calcium-independent phospholipase A <sub>2</sub> β regulates virus-induced inducible nitric-oxide synthase expression by macrophages. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 28162-8	5.4	49
91	Role of an endoplasmic reticulum Ca(2+)-independent phospholipase A(2) in oxidant-induced renal cell death. <i>American Journal of Physiology - Renal Physiology</i> , <b>2002</b> , 283, F492-8	4.3	47
90	Role of Ca <sup>2+</sup> -independent phospholipase A <sub>2</sub> γ in Ca <sup>2+</sup> -induced mitochondrial permeability transition. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2007</b> , 321, 707-15	4.7	44
89	Decreased iPLA <sub>2</sub> γ expression induces lipid peroxidation and cell death and sensitizes cells to oxidant-induced apoptosis. <i>Journal of Lipid Research</i> , <b>2008</b> , 49, 1477-87	6.3	42
88	Gradient elution reversed-phase chromatographic isolation of individual glycerophospholipid molecular species. <i>Biomedical Applications</i> , <b>1997</b> , 702, 21-32		40
87	Endothelial cell PAF synthesis following thrombin stimulation utilizes Ca(2+)-independent phospholipase A(2). <i>Biochemistry</i> , <b>2001</b> , 40, 14921-31	3.2	40
86	Identification of calcium-independent phospholipase A <sub>2</sub> γ in mitochondria and its role in mitochondrial oxidative stress. <i>American Journal of Physiology - Renal Physiology</i> , <b>2007</b> , 292, F853-60	4.3	38
85	Potential role for mast cell tryptase in recruitment of inflammatory cells to endothelium. <i>American Journal of Physiology - Cell Physiology</i> , <b>2005</b> , 289, C1485-91	5.4	38
84	Identification and distribution of endoplasmic reticulum iPLA <sub>2</sub> . <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 327, 287-93	3.4	36
83	Inhibition of platelet-activating factor (PAF) acetylhydrolase by methyl arachidonyl fluorophosphonate potentiates PAF synthesis in thrombin-stimulated human coronary artery endothelial cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2003</b> , 307, 1163-70	4.7	36
82	Ebola virus glycoprotein-mediated anoikis of primary human cardiac microvascular endothelial cells. <i>Virology</i> , <b>2004</b> , 321, 181-8	3.6	35
81	Calcium-independent phospholipase A <sub>2</sub> is regulated by a novel protein kinase C in human coronary artery endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2005</b> , 288, C475-82	5.4	35
80	Novel role for calcium-independent phospholipase A(2) in the macrophage antiviral response of inducible nitric-oxide synthase expression. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 38449-55	5.4	35
79	Characterization of tight junction proteins in cultured human urothelial cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>2008</b> , 44, 261-7	2.6	34

78	Alterations in Ca <sup>2+</sup> cycling by lysoplasmethylcholine in adult rabbit ventricular myocytes. <i>American Journal of Physiology - Cell Physiology</i> , <b>2003</b> , 284, C826-38	5.4	34
77	Thrombin activates a membrane-associated calcium-independent PLA2 in ventricular myocytes. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 274, C447-54	5.4	34
76	Stimulation of different phospholipase A2 isoforms by TNF-alpha and IL-1beta in adult rat ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1998</b> , 275, H1462-72	5.2	34
75	Regulation of membrane-associated iPLA2 activity by a novel PKC isoform in ventricular myocytes. <i>American Journal of Physiology - Cell Physiology</i> , <b>2002</b> , 283, C1621-6	5.4	31
74	Calcium-independent phospholipase A2 in isolated rabbit ventricular myocytes. <i>Lipids</i> , <b>1998</b> , 33, 1203-1216	2.6	29
73	Protease-activated receptor stimulation activates a Ca <sup>2+</sup> -independent phospholipase A2 in bladder microvascular endothelial cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2005</b> , 288, F714-21	4.3	29
72	Myeloperoxidase-derived 2-chlorofatty acids contribute to human sepsis mortality via acute respiratory distress syndrome. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	29
71	Platelet-activating factor and metastasis: calcium-independent phospholipase A2 deficiency protects against breast cancer metastasis to the lung. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 300, C825-32	5.4	28
70	Selective hydrolysis of plasmalogens in endothelial cells following thrombin stimulation. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 275, C1498-507	5.4	27
69	Endothelial cell prostaglandin I(2) and platelet-activating factor production are markedly attenuated in the calcium-independent phospholipase A(2)beta knockout mouse. <i>Biochemistry</i> , <b>2010</b> , 49, 5473-81	3.2	25
68	Recent insights into cigarette smoking as a lifestyle risk factor for breast cancer. <i>Breast Cancer: Targets and Therapy</i> , <b>2017</b> , 9, 127-132	3.9	22
67	Inhibition of calcium-independent phospholipase A2 prevents inflammatory mediator production in pulmonary microvascular endothelium. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 165, 167-74	2.8	22
66	Lung endothelial cell platelet-activating factor production and inflammatory cell adherence are increased in response to cigarette smoke component exposure. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2012</b> , 302, L47-55	5.8	22
65	Calcium-independent phospholipase A2-catalyzed plasmalogen hydrolysis in hypoxic human coronary artery endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2007</b> , 292, C251-8	5.4	22
64	Redistribution and abnormal activity of phospholipase A(2) isoenzymes in postinfarct congestive heart failure. <i>American Journal of Physiology - Cell Physiology</i> , <b>2001</b> , 280, C573-80	5.4	22
63	Enhanced breast cancer cell adherence to the lung endothelium via PAF acetylhydrolase inhibition: a potential mechanism for enhanced metastasis in smokers. <i>American Journal of Physiology - Cell Physiology</i> , <b>2014</b> , 307, C951-6	5.4	21
62	Protease activation of calcium-independent phospholipase A2 leads to neutrophil recruitment to coronary artery endothelial cells. <i>Thrombosis Research</i> , <b>2007</b> , 120, 597-605	8.2	20
61	Cigarette smoke induces cell motility via platelet-activating factor accumulation in breast cancer cells: a potential mechanism for metastatic disease. <i>Physiological Reports</i> , <b>2015</b> , 3, e12318	2.6	19

60	Phospholipase A2-catalyzed hydrolysis of plasmalogen phospholipids in thrombin-stimulated human platelets. <i>Thrombosis Research</i> , <b>2007</b> , 120, 259-68	8.2	19
59	Inactivation of endoplasmic reticulum bound Ca <sup>2+</sup> -independent phospholipase A2 in renal cells during oxidative stress. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2004</b> , 15, 1441-51	12.7	19
58	Inhibition of the key metabolic pathways, glycolysis and lipogenesis, of oral cancer by bitter melon extract. <i>Cell Communication and Signaling</i> , <b>2019</b> , 17, 131	7.5	18
57	Induction of Ca-independent PLA(2) and conservation of plasmalogen polyunsaturated fatty acids in diabetic heart. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2000</b> , 279, E25-32	6	18
56	Potential mechanism for recruitment and migration of CD133 positive cells to areas of vascular inflammation. <i>Thrombosis Research</i> , <b>2008</b> , 123, 258-66	8.2	16
55	Phospholipid metabolite production in human urothelial cells after protease-activated receptor cleavage. <i>American Journal of Physiology - Renal Physiology</i> , <b>2002</b> , 283, F944-51	4.3	16
54	Selective plasmalogen substrate utilization by thrombin-stimulated Ca(2+)-independent PLA(2) in cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2000</b> , 278, H1933-40	5.2	16
53	2-Chlorofatty acids induce Weibel-Palade body mobilization. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 113-1226.3		15
52	Loss of prostaglandin E2 release from immortalized urothelial cells obtained from interstitial cystitis patient bladders. <i>American Journal of Physiology - Renal Physiology</i> , <b>2008</b> , 294, F1129-35	4.3	14
51	Activation of group VI phospholipase A2 isoforms in cardiac endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 300, C872-9	5.4	13
50	Inhibition of membrane-associated calcium-independent phospholipase A2 as a potential culprit of anthracycline cardiotoxicity. <i>Cancer Research</i> , <b>2003</b> , 63, 5992-8	10.1	13
49	2-Chlorofatty acids are biomarkers of sepsis mortality and mediators of barrier dysfunction in rats. <i>Journal of Lipid Research</i> , <b>2020</b> , 61, 1115-1127	6.3	12
48	The absence of myocardial calcium-independent phospholipase A2 results in impaired prostaglandin E2 production and decreased survival in mice with acute <i>Trypanosoma cruzi</i> infection. <i>Infection and Immunity</i> , <b>2013</b> , 81, 2278-87	3.7	12
47	Anthracycline-induced phospholipase A2 inhibition. <i>Cardiovascular Toxicology</i> , <b>2007</b> , 7, 86-91	3.4	12
46	Activation of MAPKs in thrombin-stimulated ventricular myocytes is dependent on Ca <sup>2+</sup> -independent PLA2. <i>American Journal of Physiology - Cell Physiology</i> , <b>2006</b> , 290, C1350-4	5.4	12
45	Cigarette smoke-induced urothelial cell damage: potential role of platelet-activating factor. <i>Physiological Reports</i> , <b>2017</b> , 5, e13177	2.6	11
44	Cigarette smoking promotes bladder cancer via increased platelet-activating factor. <i>Physiological Reports</i> , <b>2019</b> , 7, e13981	2.6	11
43	Increased susceptibility to bladder inflammation in smokers: targeting the PAF-PAF receptor interaction to manage inflammatory cell recruitment. <i>Physiological Reports</i> , <b>2015</b> , 3, e12641	2.6	11

42	PGE2 release from tryptase-stimulated rabbit ventricular myocytes is mediated by calcium-independent phospholipase A2. <i>Lipids</i> , <b>2011</b> , 46, 391-7	1.6	11
41	Neutrophil adherence to bladder microvascular endothelial cells following platelet-activating factor acetylhydrolase inhibition. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2005</b> , 314, 1241-7	4.7	10
40	Chlorinated Lipids Elicit Inflammatory Responses in vitro and in vivo. <i>Shock</i> , <b>2019</b> , 51, 114-122	3.4	10
39	Absence of calcium-independent phospholipase A2 impairs platelet-activating factor production and inflammatory cell recruitment in <i>Trypanosoma cruzi</i> -infected endothelial cells. <i>Physiological Reports</i> , <b>2014</b> , 2, e00196	2.6	9
38	Profiling of fatty acids released during calcium-induced mitochondrial permeability transition in isolated rabbit kidney cortex mitochondria. <i>Toxicology in Vitro</i> , <b>2011</b> , 25, 1001-6	3.6	9
37	Tryptase activates calcium-independent phospholipase A2 and releases PGE2 in airway epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2008</b> , 295, L925-32	5.8	9
36	Changes in phospholipid content and myocardial calcium-independent phospholipase A2 activity during chronic anthracycline administration. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2004</b> , 311, 736-41	4.7	9
35	Lysoplasmenecholone increases neutrophil adherence to human coronary artery endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2007</b> , 293, C1467-71	5.4	8
34	Oxidant-induced inhibition of myocardial calcium-independent phospholipase A2. <i>Cardiovascular Toxicology</i> , <b>2001</b> , 1, 309-16	3.4	8
33	2-Chlorofatty Aldehyde Elicits Endothelial Cell Activation. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 460	4.6	7
32	Tryptase activation of immortalized human urothelial cell mitogen-activated protein kinase. <i>PLoS ONE</i> , <b>2013</b> , 8, e69948	3.7	7
31	Comparative roles of phospholipase A2 isoforms in cardiovascular pathophysiology. <i>Cardiovascular Toxicology</i> , <b>2001</b> , 1, 253-65	3.4	7
30	In the absence of overt urothelial damage, chondroitinase ABC digestion of the GAG layer increases bladder permeability in ovariectomized female rats. <i>American Journal of Physiology - Renal Physiology</i> , <b>2016</b> , 310, F1074-80	4.3	7
29	Mice with Genetic Deletion of Group VIA Phospholipase A2 Exhibit Impaired Macrophage Function and Increased Parasite Load in <i>Trypanosoma cruzi</i> -Induced Myocarditis. <i>Infection and Immunity</i> , <b>2016</b> , 84, 1137-1142	3.7	6
28	Calcium-independent phospholipase A2 in rabbit ventricular myocytes. <i>Lipids</i> , <b>2008</b> , 43, 775-82	1.6	6
27	Prostacyclin production in tryptase and thrombin stimulated human bladder endothelial cells: effect of pretreatment with phospholipase A2 and cyclooxygenase inhibitors. <i>Journal of Urology</i> , <b>2006</b> , 176, 1661-5	2.5	6
26	Polymorphonuclear leukocytes isolated from umbilical cord blood as a useful research tool to study adherence to cell monolayers. <i>Journal of Immunological Methods</i> , <b>2009</b> , 351, 30-5	2.5	5
25	The role of endoplasmic reticulum Ca <sup>2+</sup> -independent phospholipase a2 in oxidant-induced lipid peroxidation, Ca <sup>2+</sup> release, and renal cell death. <i>Toxicological Sciences</i> , <b>2012</b> , 128, 544-52	4.4	5

24	Arachidonic acid incorporation and turnover is decreased in sympathetically denervated rat heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2005</b> , 288, H2611-9	5.2	5
23	Cigarette Smoke Regulates Calcium-Independent Phospholipase A Metabolic Pathways in Breast Cancer. <i>American Journal of Pathology</i> , <b>2017</b> , 187, 1855-1866	5.8	4
22	Impaired Expression of Prostaglandin E2 (PGE2) Synthesis and Degradation Enzymes during Differentiation of Immortalized Urothelial Cells from Patients with Interstitial Cystitis/Painful Bladder Syndrome. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129466	3.7	2
21	In Vivo Effects of Long-Term Cigarette Smoke Exposure on Mammary Tissue in Mice. <i>American Journal of Pathology</i> , <b>2017</b> , 187, 1238-1244	5.8	1
20	Urothelial cell platelet-activating factor production mediated by calcium-independent phospholipase A2. <i>Urology</i> , <b>2011</b> , 77, 248.e1-7	1.6	1
19	Recruitment of inflammatory cells to the bladder endothelium exposed to cigarette smoke extract (669.1). <i>FASEB Journal</i> , <b>2014</b> , 28, 669.1	0.9	1
18	Exposure to Cigarette Smoke is Linked to Platelet-Activating Factor Accumulation in Myocardial Tissue. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
17	Cigarette Smoke Upregulates Phospholipase A <sub>2</sub> -Mediated Metabolic Pathway Expression in the Bladder: A Potential Promoter of Tumorigenesis. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
16	Expression of ZO-1, ZO-2, and ZO-3 proteins in a urothelial cell culture system.. <i>FASEB Journal</i> , <b>2007</b> , 21, A763	0.9	
15	Mast cell tryptase may play a protective role in early inflammation in human small airway epithelial cells. <i>FASEB Journal</i> , <b>2007</b> , 21, A958	0.9	
14	Inhibition of calcium-independent phospholipase A2 in pulmonary microvascular endothelium prevents inflammatory mediator production. <i>FASEB Journal</i> , <b>2007</b> , 21, A862	0.9	
13	Characterization of stratification and tight junction formation in cultured human urothelial cells. <i>FASEB Journal</i> , <b>2008</b> , 22, 1203.1	0.9	
12	Thrombin activates calcium independent phospholipase A2 (iPLA2) in lung microvascular endothelial cells. <i>FASEB Journal</i> , <b>2008</b> , 22, 1178.6	0.9	
11	Transendothelial migration of CD133+ hematopoietic progenitor cells isolated from human umbilical cord blood. <i>FASEB Journal</i> , <b>2008</b> , 22, 1179.1	0.9	
10	Thrombin induces calcium independent phospholipase A2 (iPLA2) activity and neutrophil adherence in human small airways epithelial cells. <i>FASEB Journal</i> , <b>2008</b> , 22, 762.1	0.9	
9	Cigarette Smoking is Associated with PEDF Downregulation in the Myocardium. <i>FASEB Journal</i> , <b>2018</b> , 32, 675.7	0.9	
8	Alterations in Phospholipase A2-Mediated Pathways in Smokers: A Potential Mediator of Skin Cancer Development. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
7	Increased platelet-activating factor accumulation in the endothelium in response to cigarette smoke may contribute to breast cancer metastasis (405.5). <i>FASEB Journal</i> , <b>2014</b> , 28, 405.5	0.9	

- 6 Is cigarette smoking an independent risk factor of metastatic disease in prostate cancer? (1047.15). *FASEB Journal*, **2014**, 28, 1047.15 0.9
- 5 PMN recruitment to small airway epithelial cells in response to cigarette smoke extract (694.8). *FASEB Journal*, **2014**, 28, 694.8 0.9
- 4 Cigarette smoke increases PAF accumulation, cell motility and EMT in triple negative breast cancer cells (58.8). *FASEB Journal*, **2014**, 28, 58.8 0.9
- 3 Redistribution of calcium-independent phospholipase A2 isoforms in IC/PBS urothelial cells (488.2). *FASEB Journal*, **2014**, 28, 488.2 0.9
- 2 Activation of calcium-independent phospholipase A2 following protease-activated receptor cleavage in mouse cardiomyocytes. *FASEB Journal*, **2011**, 25, 1112.6 0.9
- 1 Phospholipase A2 Enzymes: Potential Targets for Therapy **2014**, 177-198