John Turk

List of Publications by Year in descending order

193 papers	12,430 citations	17440 63 h-index	31849 101 g-index
195 all docs	195 docs citations	195 times ranked	10106 citing authors

#	Article	IF	Citations
1	Identification of a Physiologically Relevant Endogenous Ligand for PPARÎ± in Liver. Cell, 2009, 138, 476-488.	28.9	589
2	â€œNewâ€•hepatic fat activates PPARÎ± to maintain glucose, lipid, and cholesterol homeostasis. Cell Metabolism, 2005, 1, 309-322.	16.2	462
3	Electrospray ionization/tandem quadrupole mass spectrometric studies on phosphatidylcholines: The fragmentation processes. Journal of the American Society for Mass Spectrometry, 2003, 14, 352-363.	2.8	305
4	The PmrA-Regulated pmrC Gene Mediates Phosphoethanolamine Modification of Lipid A and Polymyxin Resistance in Salmonella enterica. Journal of Bacteriology, 2004, 186, 4124-4133.	2.2	286
5	Characterization of phosphatidylinositol, phosphatidylinositol-4-phosphate, and phosphatidylinositol-4,5-bisphosphate by electrospray ionization tandem mass spectrometry: A mechanistic study. Journal of the American Society for Mass Spectrometry, 2000, 11, 986-999.	2.8	263
6	IL-1.beta. induces the coexpression of both nitric oxide synthase and cyclooxygenase by Islets of Langerhans: activation of cyclooxygenase by nitric oxide. Biochemistry, 1993, 32, 13767-13770.	2.5	256
7	Structural characterization of triacylglycerols as lithiated adducts by electrospray ionization mass spectrometry using low-energy collisionally activated dissociation on a triple stage quadrupole instrument. Journal of the American Society for Mass Spectrometry, 1999, 10, 587-599.	2.8	246
8	Formation of lithiated adducts of glycerophosphocholine lipids facilitates their identification by electrospray ionization tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 1998, 9, 516-526.	2.8	210
9	Inhibiting Adipose Tissue Lipogenesis Reprograms Thermogenesis and PPARÎ³ Activation to Decrease Diet-Induced Obesity. Cell Metabolism, 2012, 16, 189-201.	16.2	205
10	Mitochondrial Dysfunction andÎ²-Cell Failure in Type 2 Diabetes Mellitus. Experimental Diabetes Research, 2012, 2012, 1-11.	3.8	175
11	Sulfated Steroids as Natural Ligands of Mouse Pheromone-Sensing Neurons. Journal of Neuroscience, 2008, 28, 6407-6418.	3.6	174
12	Structural determination of sphingomyelin by tandem mass spectrometry with electrospray ionization. Journal of the American Society for Mass Spectrometry, 2000, 11, 437-449.	2.8	155
13	Studies on phosphatidylglycerol with triple quadrupole tandem mass spectrometry with electrospray ionization: Fragmentation processes and structural characterization. Journal of the American Society for Mass Spectrometry, 2001, 12, 1036-1043.	2.8	154
14	Male Mice That Do Not Express Group VIA Phospholipase A2 Produce Spermatozoa with Impaired Motility and Have Greatly Reduced Fertility. Journal of Biological Chemistry, 2004, 279, 38194-38200.	3.4	153
15	Disrupted Membrane Homeostasis and Accumulation of Ubiquitinated Proteins in a Mouse Model of Infantile Neuroaxonal Dystrophy Caused by PLA2G6 Mutations. American Journal of Pathology, 2008, 172, 406-416.	3.8	146
16	Structural determination of glycosphingolipids as lithiated adducts by electrospray ionization mass spectrometry using low-energy collisional-activated dissociation on a triple stage quadrupole instrument. Journal of the American Society for Mass Spectrometry, 2001, 12, 61-79.	2.8	135
17	PhoPâ€•regulated Salmonella resistance to the antimicrobial peptides magainin 2 and polymyxin B. Molecular Microbiology, 2004, 53, 229-241.	2.5	135
18	Studies on phosphatidylserine by tandem quadrupole and multiple stage quadrupole ion-trap mass spectrometry with electrospray ionization: Structural characterization and the fragmentation processes. Journal of the American Society for Mass Spectrometry, 2005, 16, 1510-1522.	2.8	133

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19	Inhibition of arachidonate release by secretagogue-stimulated pancreatic islets suppresses both insulin secretion and the rise in .beta.-cell cytosolic calcium ion concentration. Biochemistry, 1993, 32, 337-346.	2.5	132
20	Rat and human pancreatic islet cells contain a calcium ion independent phospholipase A2 activity selective for hydrolysis of arachidonate which is stimulated by adenosine triphosphate and is specifically localized to islet .beta.-cells. Biochemistry, 1993, 32, 327-336.	2.5	123
21	Characterization of ceramides by low energy collisional-activated dissociation tandem mass spectrometry with negative-ion electrospray ionization. Journal of the American Society for Mass Spectrometry, 2002, 13, 558-570.	2.8	120
22	Free fatty acid accumulation in secretagogue-stimulated pancreatic islets and effects of arachidonate on depolarization-induced insulin secretion. Biochemistry, 1991, 30, 6372-6379.	2.5	119
23	Structural characterization of cardiolipin by tandem quadrupole and multiple-stage quadrupole ion-trap mass spectrometry with electrospray ionization. Journal of the American Society for Mass Spectrometry, 2005, 16, 491-504.	2.8	119
24	Electrospray ionization multiple-stage linear ion-trap mass spectrometry for structural elucidation of triacylglycerols: Assignment of fatty acyl groups on the glycerol backbone and location of double bonds. Journal of the American Society for Mass Spectrometry, 2010, 21, 657-669.	2.8	117
25	Depletion of Intracellular Calcium Stores Activates Smooth Muscle Cell Calcium-independent Phospholipase A2. Journal of Biological Chemistry, 1997, 272, 1522-1526.	3.4	113
26	Characterization of alkylacyl, alk-1-enylacyl and lyso subclasses of glycerophosphocholine by tandem quadrupole mass spectrometry with electrospray ionization. Journal of Mass Spectrometry, 2003, 38, 752-763.	1.6	113
27	Electrospray ionization tandem mass spectrometric analysis of sulfatide.. Lipids and Lipid Metabolism, 1998, 1392, 202-216.	2.6	108
28	Redirection of sphingolipid metabolism toward de novo synthesis of ethanolamine in Leishmania. EMBO Journal, 2007, 26, 1094-1104.	7.8	108
29	Sphingolipids are essential for differentiation but not growth in Leishmania. EMBO Journal, 2003, 22, 6016-6026.	7.8	107
30	Isotope Dilution Mass Spectrometric Measurements Indicate That Arachidonylethanolamide, the Proposed Endogenous Ligand of the Cannabinoid Receptor, Accumulates in Rat Brain Tissue Post Mortem but Is Contained at Low Levels in or Is Absent from Fresh Tissue. Journal of Biological Chemistry, 1996, 271, 17287-17295.	3.4	106
31	Structural studies on ceramides as lithiated adducts by low energy collisional-activated dissociation tandem mass spectrometry with electrospray ionization. Journal of the American Society for Mass Spectrometry, 2002, 13, 680-695.	2.8	105
32	Structural characterization of unsaturated glycerophospholipids by multiple-stage linear ion-trap mass spectrometry with electrospray ionization. Journal of the American Society for Mass Spectrometry, 2008, 19, 1681-1691.	2.8	104
33	Role of Fat Body Lipogenesis in Protection against the Effects of Caloric Overload in Drosophila. Journal of Biological Chemistry, 2013, 288, 8028-8042.	3.4	104
34	Studies on sulfatides by quadrupole ion-trap mass spectrometry with electrospray ionization: Structural characterization and the fragmentation processes that include an unusual internal galactose residue loss and the classical charge-remote fragmentation. Journal of the American Society for Mass Spectrometry, 2004, 15, 536-546.	2.8	102
35	Studies of the Role of Group VI Phospholipase A2 in Fatty Acid Incorporation, Phospholipid Remodeling, Lysophosphatidylcholine Generation, and Secretagogue-induced Arachidonic Acid Release in Pancreatic Islets and Insulinoma Cells. Journal of Biological Chemistry, 1999, 274, 13915-13927.	3.4	101
36	Distinction among isomeric unsaturated fatty acids as lithiated adducts by electrospray ionization mass spectrometry using low energy collisionally activated dissociation on a triple stage quadrupole instrument. Journal of the American Society for Mass Spectrometry, 1999, 10, 600-612.	2.8	101

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37	Leishmania salvage and remodelling of host sphingolipids in amastigote survival and acidocalcisome biogenesis. Molecular Microbiology, 2005, 55, 1566-1578.	2.5	101
38	Human Pancreatic Islets Express mRNA Species Encoding Two Distinct Catalytically Active Isoforms of Group VI Phospholipase A2 (iPLA2) That Arise from an Exon-skipping Mechanism of Alternative Splicing of the Transcript from the iPLA2 Gene on Chromosome 22q13.1. Journal of Biological Chemistry, 1999, 274, 9607-9616.	3.4	96
39	Pancreatic Islets Express a Ca2+-independent Phospholipase A2 Enzyme That Contains a Repeated Structural Motif Homologous to the Integral Membrane Protein Binding Domain of Ankyrin. Journal of Biological Chemistry, 1997, 272, 11118-11127.	3.4	95
40	The molecular biology of the group VIA Ca2+-independent phospholipase A2. Progress in Molecular Biology and Translational Science, 2001, 67, 1-33.	1.9	94
41	Apoptosis of Insulin-Secreting Cells Induced by Endoplasmic Reticulum Stress Is Amplified by Overexpression of Group VIA Calcium-Independent Phospholipase A2 (iPLA2Î²) and Suppressed by Inhibition of iPLA2Î². Biochemistry, 2004, 43, 918-930.	2.5	93
42	Elucidation of the double-bond position of long-chain unsaturated fatty acids by multiple-stage linear ion-trap mass spectrometry with electrospray ionization. Journal of the American Society for Mass Spectrometry, 2008, 19, 1673-1680.	2.8	93
43	Isotope Dilution Mass Spectrometric Quantification of 3-Nitrotyrosine in Proteins and Tissues Is Facilitated by Reduction to 3-Aminotyrosine. Analytical Biochemistry, 1998, 259, 127-135.	2.4	92
44	Algorithm for processing raw mass spectrometric data to identify and quantitate complex lipid molecular species in mixtures by data-dependent scanning and fragment ion database searching. Journal of the American Society for Mass Spectrometry, 2007, 18, 1848-1858.	2.8	89
45	A pyrrolidine-based specific inhibitor of cytosolic phospholipase A2Î± blocks arachidonic acid release in a variety of mammalian cells. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1513, 160-166.	2.6	88
46	Arachidonic acid induces an increase in the cytosolic calcium concentration in single pancreatic islet beta cells. Biochemical and Biophysical Research Communications, 1992, 184, 647-653.	2.1	87
47	Glucose-induced phospholipid hydrolysis in isolated pancreatic islets: quantitative effects on the phospholipid content of arachidonate and other fatty acids. Lipids and Lipid Metabolism, 1986, 879, 399-409.	2.6	86
48	Insulin Secretory Responses and Phospholipid Composition of Pancreatic Islets from Mice That Do Not Express Group VIA Phospholipase A2 and Effects of Metabolic Stress on Glucose Homeostasis. Journal of Biological Chemistry, 2006, 281, 20958-20973.	3.4	86
49	Characterization of phosphatidylethanolamine as a lithiated adduct by triple quadrupole tandem mass spectrometry with electrospray ionization. , 2000, 35, 595-606.		84
50	Secretagogue-induced diacylglycerol accumulation in isolated pancreatic islets. Mass spectrometric characterization of the fatty acyl content indicates multiple mechanisms of generation. Biochemistry, 1989, 28, 4291-4301.	2.5	83
51	Developmentally regulated sphingolipid synthesis in African trypanosomes. Molecular Microbiology, 2008, 70, 281-296.	2.5	80
52	Fluorescent derivatives of prostaglandins and thromboxanes for liquid chromatography. Prostaglandins, 1978, 16, 291-309.	1.2	79
53	Electrospray Ionization Mass Spectrometric Analyses of Phospholipids from Rat and Human Pancreatic Islets and Subcellular Membranes:Â Comparison to Other Tissues and Implications for Membrane Fusion in Insulin Exocytosisâ€. Biochemistry, 1998, 37, 4553-4567.	2.5	79
54	Mass spectrometric identification and quantitation of arachidonate-containing phospholipids in pancreatic islets: Prominence of plasmenylethanolamine molecular species. Biochemistry, 1993, 32, 5339-5351.	2.5	78

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55	Identification of the lipopolysaccharide modifications controlled by the Salmonella PmrA/PmrB system mediating resistance to Fe(III) and Al(III). Molecular Microbiology, 2006, 61, 645-654.	2.5	76
56	Protection of Pancreatic Î²-Cells by Group VIA Phospholipase A2-Mediated Repair of Mitochondrial Membrane Peroxidation. Endocrinology, 2010, 151, 3038-3048.	2.8	75
57	Studies of Insulin Secretory Responses and of Arachidonic Acid Incorporation into Phospholipids of Stably Transfected Insulinoma Cells That Overexpress Group VIA Phospholipase A2(iPLA2Î²) Indicate a Signaling Rather Than a Housekeeping Role for iPLA2Î². Journal of Biological Chemistry, 2001, 276, 13198-13208.	3.4	74
58	Characterization of acylphosphatidylglycerols from salmonella typhimurium by tandem mass spectrometry with electrospray ionization. Journal of the American Society for Mass Spectrometry, 2004, 15, 1-11.	2.8	70
59	Arachidonic acid metabolism in isolated pancreatic islets. Lipids and Lipid Metabolism, 1984, 794, 125-136.	2.6	69
60	Uptake, release and novel species-dependent oxygenation of arachidonic acid in human and animal airway epithelial cells. Lipids and Lipid Metabolism, 1988, 963, 401-413.	2.6	69
61	Electrospray Ionization/Mass Spectrometric Analyses of Human Promonocytic U937 Cell Glycerolipids and Evidence That Differentiation Is Associated with Membrane Lipid Composition Changes That Facilitate Phospholipase A2 Activation. Journal of Biological Chemistry, 2000, 275, 16579-16589.	3.4	69
62	Characterization of inositol phosphorylceramides from Leishmania major by tandem mass spectrometry with electrospray ionization. Journal of the American Society for Mass Spectrometry, 2007, 18, 1591-1604.	2.8	69
63	Characterization of an ATP-stimulatable calcium2+ independent phospholipase A2 from clonal insulin-secreting HIT cells and rat pancreatic islets: a possible molecular component of the .beta.-cell fuel sensor. Biochemistry, 1994, 33, 7442-7452.	2.5	67
64	Differentiation of 1-O-alk-1â€²-enyl-2-acyl and 1-O-alkyl-2-acyl Glycerophospholipids by Multiple-Stage Linear Ion-Trap Mass Spectrometry with Electrospray Ionization. Journal of the American Society for Mass Spectrometry, 2007, 18, 2065-2073.	2.8	67
65	Amplification of Insulin Secretion by Lipid Messengers. Diabetes, 1993, 42, 367-374.	0.6	64
66	Degradation of Host Sphingomyelin Is Essential for Leishmania Virulence. PLoS Pathogens, 2009, 5, e1000692.	4.7	64
67	Characterization of cardiolipin from Escherichia coli by electrospray ionization with multiple stage quadrupole ion-trap mass spectrometric analysis of [Mâ^'2H+Na]â^' ions. Journal of the American Society for Mass Spectrometry, 2006, 17, 420-429.	2.8	63
68	Mass spectrometric characterization of arachidonate-containing plasmalogens in human pancreatic islets and in rat islet .beta.-cells and subcellular membranes. Biochemistry, 1993, 32, 13499-13509.	2.5	61
69	Effects of Stable Suppression of Group VIA Phospholipase A2 Expression on Phospholipid Content and Composition, Insulin Secretion, and Proliferation of INS-1 Insulinoma Cells. Journal of Biological Chemistry, 2006, 281, 187-198.	3.4	60
70	Glucose homeostasis, insulin secretion, and islet phospholipids in mice that overexpress iPLA₂Î² in pancreatic Î²-cells and in iPLA₂Î²-null mice. American Journal of Physiology - Endocrinology and Metabolism, 2008, 294, E217-E229.	3.5	60
71	Inactivation of vascular prostacyclin synthetase by platelet lipoxygenase products. Biochemical and Biophysical Research Communications, 1980, 95, 1628-1634.	2.1	59
72	Arachidonic acid metabolism in isolated pancreatic islets. III. Effects of exogenous lipoxygenase products and inhibitors on insulin secretion. Lipids and Lipid Metabolism, 1985, 834, 23-36.	2.6	59

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73	Group VIA phospholipase A₂in both host and tumor cells is involved in ovarian cancer development. FASEB Journal, 2010, 24, 4103-4116.	0.5	58
74	Macrophage Fatty-acid Synthase Deficiency Decreases Diet-induced Atherosclerosis. Journal of Biological Chemistry, 2010, 285, 23398-23409.	3.4	57
75	Disturbed brain phospholipid and docosahexaenoic acid metabolism in calcium-independent phospholipase A2-VIA (iPLA2Î²)-knockout mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 1278-1286.	2.4	56
76	Arachidonic acid metabolism in isolated pancreatic islets. Lipids and Lipid Metabolism, 1984, 794, 110-124.	2.6	55
77	Mass Spectrometric Evidence That Agents That Cause Loss of Ca2+ from Intracellular Compartments Induce Hydrolysis of Arachidonic Acid from Pancreatic Islet Membrane Phospholipids by a Mechanism That Does Not Require a Rise in Cytosolic Ca2+ Concentration**This work was supported by U.S. Public Health Service grants PO1-HL57278, P41-RR-00954, and S10-RR-11260 and by an American Diabetes Association Career Development Award (S.R.).. Endocrinology, 1998, 139, 4073-4085.	2.8	55
78	Age-Related Changes in Bone Morphology Are Accelerated in Group VIA Phospholipase A2 (iPLA2Î²)-Null Mice. American Journal of Pathology, 2008, 172, 868-881.	3.8	55
79	Selective hepatic insulin resistance in a murine model heterozygous for a mitochondrial trifunctional protein defect. Hepatology, 2013, 57, 2213-2223.	7.3	55
80	Genetic and Pharmacologic Evidence That Calcium-independent Phospholipase A2Î² Regulates Virus-induced Inducible Nitric-oxide Synthase Expression by Macrophages. Journal of Biological Chemistry, 2005, 280, 28162-28168.	3.4	54
81	A Bromoenol Lactone Suicide Substrate Inactivates Group VIA Phospholipase A₂ by Generating a Diffiusible Bromomethyl Keto Acid That Alkylates Cysteine Thiols. Biochemistry, 2006, 45, 1061-1073.	2.5	53
82	Interleukin-1 Enhances Pancreatic Islet Arachidonic Acid 12-Lipoxygenase Product Generation by Increasing Substrate Availability through a Nitric Oxide-dependent Mechanism. Journal of Biological Chemistry, 1996, 271, 1029-1042.	3.4	52
83	Identification of an Endocrine Disrupting Agent from Corn with Mitogenic Activity. Biochemical and Biophysical Research Communications, 2002, 291, 692-700.	2.1	52
84	Structural characterization of phosphatidyl-myo-inositol mannosides from Mycobacterium bovis bacillus calmette gÃ©rin by multiple-stage quadrupole ion-trap mass spectrometry with electrospray ionization. II. Monoacyl- and diacyl-PIMs. Journal of the American Society for Mass Spectrometry, 2007, 18, 479-492.	2.8	52
85	Characterization of cardiolipin as the sodiated ions by positive-ion electrospray ionization with multiple stage quadrupole ion-trap mass spectrometry. Journal of the American Society for Mass Spectrometry, 2006, 17, 1146-1157.	2.8	51
86	Modulation of the Pancreatic Islet Î²-Cell-delayed Rectifier Potassium Channel Kv2.1 by the Polyunsaturated Fatty Acid Arachidonate. Journal of Biological Chemistry, 2007, 282, 7442-7449.	3.4	51
87	Identification of Genes Associated with Resilience/Vulnerability to Sleep Deprivation and Starvation inDrosophila. Sleep, 2015, 38, 801-814.	1.1	51
88	Attenuated Free Cholesterol Loading-induced Apoptosis but Preserved Phospholipid Composition of Peritoneal Macrophages from Mice That Do Not Express Group VIA Phospholipase A2. Journal of Biological Chemistry, 2007, 282, 27100-27114.	3.4	50
89	Role of Calcium-independent Phospholipase A2Î² in High Glucose-induced Activation of RhoA, Rho Kinase, and CPI-17 in Cultured Vascular Smooth Muscle Cells and Vascular Smooth Muscle Hypercontractility in Diabetic Animals. Journal of Biological Chemistry, 2010, 285, 8628-8638.	3.4	50
90	Mice deficient in Group VIB phospholipase A₂(iPLA₂Î³) exhibit relative resistance to obesity and metabolic abnormalities induced by a Western diet. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E1097-E1114.	3.5	50

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91	Structural characterization of phosphatidyl-myo-inositol mannosides from Mycobacterium bovis bacillus calmette guÃ©rin by multiple-stage quadrupole ion-trap mass spectrometry with electrospray ionization. I. PIMs and lyso-PIMs. Journal of the American Society for Mass Spectrometry, 2007, 18, 466-478.	2.8	48
92	Algorithms for automatic processing of data from mass spectrometric analyses of lipids. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2847-2854.	2.3	48
93	Imaging decreased brain docosahexaenoic acid metabolism and signaling in iPLA2Î² (VIA)-deficient mice. Journal of Lipid Research, 2010, 51, 3166-3173.	4.2	48
94	Cloning and expression of a group IV cytosolic Ca2+-dependent phospholipase A2 from rat pancreatic islets. Comparison of the expressed activity with that of an islet group VI cytosolic Ca2+-independent phospholipase A2. Lipids and Lipid Metabolism, 1998, 1391, 384-400.	2.6	47
95	Analytic Performance of Immunoassays for Drugs of Abuse Below Established Cutoff Values. Clinical Chemistry, 2004, 50, 717-722.	3.2	47
96	Electrospray ionization multiple stage quadrupole ion-trap and tandem quadrupole mass spectrometric studies on phosphatidylglycerol from arabidopsis leaves. Journal of the American Society for Mass Spectrometry, 2007, 18, 783-790.	2.8	47
97	Studies of phospholipid metabolism, proliferation, and secretion of stably transfected insulinoma cells that overexpress group VIA phospholipase A2. Lipids, 2001, 36, 689-700.	1.7	46
98	Identification of a cAMP-response Element in the Regulator of G-protein Signaling-2 (RGS2) Promoter as a Key Cis-regulatory Element for RGS2 Transcriptional Regulation by Angiotensin II in Cultured Vascular Smooth Muscles. Journal of Biological Chemistry, 2011, 286, 44646-44658.	3.4	46
99	Wnt Protein Signaling Reduces Nuclear Acetyl-CoA Levels to Suppress Gene Expression during Osteoblast Differentiation. Journal of Biological Chemistry, 2016, 291, 13028-13039.	3.4	43
100	Group VIA Phospholipase A2 (iPLA2Î²) Participates in Angiotensin II-induced Transcriptional Up-regulation of Regulator of G-protein Signaling-2 in Vascular Smooth Muscle Cells. Journal of Biological Chemistry, 2007, 282, 25278-25289.	3.4	42
101	Arachidonic acid metabolism in isolated pancreatic islets. Lipids and Lipid Metabolism, 1985, 835, 1-17.	2.6	41
102	Reduced efficiency of sarcolipin-dependent respiration in myocytes from humans with severe obesity. Obesity, 2015, 23, 1440-1449.	3.0	41
103	Identification of lipoxygenase products from arachidonic acid metabolism in stimulated murine eosinophils. Lipids and Lipid Metabolism, 1983, 750, 78-90.	2.6	40
104	Group VIA Phospholipase A2 Forms a Signaling Complex with the Calcium/Calmodulin-dependent Protein Kinase IIÎ² Expressed in Pancreatic Islet Î²-Cells. Journal of Biological Chemistry, 2005, 280, 6840-6849.	3.4	39
105	Platelet-activating factor and metastasis: calcium-independent phospholipase A₂Î² deficiency protects against breast cancer metastasis to the lung. American Journal of Physiology - Cell Physiology, 2011, 300, C825-C832.	4.6	39
106	Electrospray ionization mass spectrometric analyses of phospholipids from INS-1 insulinoma cells: comparison to pancreatic islets and effects of fatty acid supplementation on phospholipid composition and insulin secretion. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2000, 1484, 251-266.	2.4	38
107	Pancreatic Islets and Insulinoma Cells Express a Novel Isoform of Group VIA Phospholipase A2 (iPLA2Î²) that Participates in Glucose-Stimulated Insulin Secretion and Is Not Produced by Alternate Splicing of the iPLA2Î² Transcript. Biochemistry, 2003, 42, 13929-13940.	2.5	38
108	Polarization of Macrophages toward M2 Phenotype Is Favored by Reduction in iPLA2Î² (Group VIA) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.4	38

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109	The expression and function of a group VIA calcium-independent phospholipase A2 (iPLA2Î²) in Î²-cells. Canadian Journal of Physiology and Pharmacology, 2004, 82, 824-832.	1.4	37
110	Class A Scavenger Receptor-mediated Macrophage Adhesion Requires Coupling of Calcium-independent Phospholipase A2 and 12/15-Lipoxygenase to Rac and Cdc42 Activation. Journal of Biological Chemistry, 2007, 282, 33405-33411.	3.4	37
111	Cell-free Synthesis and Functional Characterization of Sphingolipid Synthases from Parasitic Trypanosomatid Protozoa. Journal of Biological Chemistry, 2010, 285, 20580-20587.	3.4	37
112	Characterization of mycolic acids from the pathogen Rhodococcus equi by tandem mass spectrometry with electrospray ionization. Analytical Biochemistry, 2011, 409, 112-122.	2.4	37
113	Type IB secretory phospholipase A2 is contained in insulin secretory granules of pancreatic islet Î²-cells and is co-secreted with insulin from glucose-stimulated islets. Lipids and Lipid Metabolism, 1998, 1390, 301-312.	2.6	34
114	Stimulation of insulin secretion and associated nuclear accumulation of iPLA₂Î² in INS-1 insulinoma cells. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E820-E833.	3.5	34
115	Â-Cell Calcium-Independent Group VIA Phospholipase A2 (iPLA2Â): Tracking iPLA2Â Movements in Response to Stimulation With Insulin Secretagogues in INS-1 Cells. Diabetes, 2004, 53, S186-S189.	0.6	34
116	Tetrahydrofurandiols (THF-diols), Leukotoxindiols (LTX-diols), and Endocrine Disruption in Rats. Environmental Health Perspectives, 2007, 115, 702-708.	6.0	34
117	Lysophospholipid acylation modulates plasma membrane lipid organization and insulin sensitivity in skeletal muscle. Journal of Clinical Investigation, 2021, 131, .	8.2	34
118	Effects of Biological Oxidants on the Catalytic Activity and Structure of Group VIA Phospholipase A2. Biochemistry, 2006, 45, 6392-6406.	2.5	33
119	Smooth Muscle Cell Arachidonic Acid Release, Migration, and Proliferation Are Markedly Attenuated in Mice Null for Calcium-independent Phospholipase A2Î². Journal of Biological Chemistry, 2008, 283, 33975-33987.	3.4	33
120	Glucose-responsitivity and expression of an ATP-stimulatable, Ca2+-independent phospholipase A2 enzyme in clonal insulinoma cell lines. Lipids and Lipid Metabolism, 1997, 1344, 153-164.	2.6	32
121	Ncb5or Deficiency Increases Fatty Acid Catabolism and Oxidative Stress. Journal of Biological Chemistry, 2011, 286, 11141-11154.	3.4	31
122	Reconstitution of membrane fusion between pancreatic islet secretory granules and plasma membranes: Catalysis by a protein constituent recognized by monoclonal antibodies directed against glyceraldehyde-3-phosphate dehydrogenase. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1414, 95-107.	2.6	30
123	Electrospray ionization mass spectrometric analyses of changes in tissue phospholipid molecular species during the evolution of hyperlipidemia and hyperglycemia in Zucker diabetic fatty rats. Lipids, 2000, 35, 839-852.	1.7	30
124	Structural elucidation of diglycosyl diacylglycerol and monoglycosyl diacylglycerol from Streptococcus pneumoniae by multipleâ€stage linear ionâ€trap mass spectrometry with electrospray ionization. Journal of Mass Spectrometry, 2012, 47, 115-123.	1.6	30
125	Group VIA Phospholipase A2 Mitigates Palmitate-induced Î²-Cell Mitochondrial Injury and Apoptosis. Journal of Biological Chemistry, 2014, 289, 14194-14210.	3.4	30
126	iPLA2Î² and its role in male fertility, neurological disorders, metabolic disorders, and inflammation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 846-860.	2.4	30

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127	Modulation of the Regulatory Activity of Bacterial Two-component Systems by SlyA. Journal of Biological Chemistry, 2008, 283, 28158-28168.	3.4	29
128	Characterization of Sulfolipids of Mycobacterium tuberculosis H37Rv by Multiple-Stage Linear Ion-Trap High-Resolution Mass Spectrometry with Electrospray Ionization Reveals That the Family of Sulfolipid II Predominates. Biochemistry, 2011, 50, 9135-9147.	2.5	29
129	Evidence for proteolytic processing and stimulated organelle redistribution of iPLA2Î². Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 547-558.	2.4	28
130	Arachidonate 12-Lipoxygenase and Cyclooxygenase:PGE Isomerase are Predominant Pathways for Oxygenation in Bovine Tracheal Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 1989, 1, 237-244.	2.9	27
131	Synthesis of the 1-O-hexadecyl molecular species of platelet-activating factor by airway epithelial and vascular endothelial cells. Biochemical and Biophysical Research Communications, 1991, 177, 357-364.	2.1	27
132	Endothelial Cell Prostaglandin I2 and Platelet-Activating Factor Production Are Markedly Attenuated in the Calcium-Independent Phospholipase A2Î² Knockout Mouse. Biochemistry, 2010, 49, 5473-5481.	2.5	27
133	Genetic modulation of islet Î²-cell iPLA₂Î² expression provides evidence for its impact on Î²-cell apoptosis and autophagy. Islets, 2013, 5, 29-44.	1.8	27
134	Characterization of polar lipids of Listeria monocytogenes by HCD and low-energy CAD linear ion-trap mass spectrometry with electrospray ionization. Analytical and Bioanalytical Chemistry, 2015, 407, 2519-2528.	3.7	26
135	Arachidonic acid metabolism in isolated pancreatic islets VI. Carbohydrate insulin secretagogues must be metabolized to induce eicosanoid release. Lipids and Lipid Metabolism, 1992, 1125, 280-291.	2.6	25
136	Islet Complex Lipids: Involvement in the Actions of Group VIA Calcium-Independent Phospholipase A2 in Â-Cells. Diabetes, 2004, 53, S179-S185.	0.6	25
137	Oxidative Modifications of the C-terminal Domain of Tropoelastin Prevent Cell Binding. Journal of Biological Chemistry, 2011, 286, 13574-13582.	3.4	25
138	Lung endothelial cell platelet-activating factor production and inflammatory cell adherence are increased in response to cigarette smoke component exposure. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 302, L47-L55.	2.9	25
139	Group VIA PLA2 (iPLA2Î²) Is Activated Upstream of p38 Mitogen-activated Protein Kinase (MAPK) in Pancreatic Islet Î²-Cell Signaling. Journal of Biological Chemistry, 2012, 287, 5528-5541.	3.4	25
140	Structural Distinction of Diacyl-, Alkylacyl, and Alk-1-Enylacyl Glycerophosphocholines as [M â€“ 15]^{â€“} Ions by Multiple-Stage Linear Ion-Trap Mass Spectrometry with Electrospray Ionization. Journal of the American Society for Mass Spectrometry, 2014, 25, 1412-1420.	2.8	25
141	Lipogenesis mitigates dysregulated sarcoplasmic reticulum calcium uptake in muscular dystrophy. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1530-1538.	2.4	25
142	Progesterone-induced Acrosome Exocytosis Requires Sequential Involvement of Calcium-independent Phospholipase A2Î² (iPLA2Î²) and Group X Secreted Phospholipase A2 (sPLA2). Journal of Biological Chemistry, 2016, 291, 3076-3089.	3.4	25
143	Interleukin-1 induces rapid and transient expression of the c-fos proto-oncogene in isolated pancreatic islets and in purified Î²-cells. FEBS Letters, 1990, 266, 33-36.	2.8	24
144	Interleukin-1 inhibits glucose-induced Ca2+ uptake by islets of Langerhans. FEBS Letters, 1989, 248, 35-38.	2.8	23

#	Article	IF	Citations
145	Inhibition of 3-Hydroxy-3-Methylglutaryl Coenzyme A (HMG CoA) Reductase Blunts Factor VIIa/Tissue Factor and Prothrombinase Activities via Effects on Membrane Phosphatidylserine. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 690-696.	2.4	23
146	Structural Characterization of Sulfated Steroids That Activate Mouse Pheromone-Sensing Neurons. Biochemistry, 2008, 47, 14009-14019.	2.5	23
147	Multipleâ€stage linear ionâ€trap with high resolution mass spectrometry towards complete structural characterization of phosphatidylethanolamines containing cyclopropane fatty acyl chain in Leishmania infantum. Journal of Mass Spectrometry, 2014, 49, 201-209.	1.6	23
148	Evidence for Association of an ATP-Stimulatable Ca2+-Independent Phospholipase A2from Pancreatic Islets and HIT Insulinoma Cells with a Phosphofructokinase-like Proteinâ€. Biochemistry, 1996, 35, 5464-5471.	2.5	22
149	Smooth Muscle-specific Expression of Calcium-independent Phospholipase A2Î² (iPLA2Î²) Participates in the Initiation and Early Progression of Vascular Inflammation and Neointima Formation. Journal of Biological Chemistry, 2012, 287, 24739-24753.	3.4	22
150	iPLA2Î² Knockout Mouse, a Genetic Model for Progressive Human Motor Disorders, Develops Age-Related Neuropathology. Neurochemical Research, 2014, 39, 1522-1532.	3.3	22
151	Structural distinction among inositol phosphate isomers using high-energy and low-energy collisional-activated dissociation tandem mass spectrometry with electrospray ionization. Journal of Mass Spectrometry, 2003, 38, 447-457.	1.6	21
152	Group VIA Phospholipase A ₂ Mediates Enhanced Macrophage Migration in Diabetes Mellitus by Increasing Expression of Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 768-778.	2.4	20
153	ARACHIDONATE LIPOXYGENASE PRODUCTS AND RENAL ALLOGRAFT REJECTION IN DOGS. Transplantation, 1987, 44, 805-808.	1.0	19
154	Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatographyâ€"negative ion chemical ionization mass spectrometry. Journal of Chromatography A, 1990, 509, 325-332.	3.7	19
155	Quantitation of the Putative Neurotransmitter Agmatine as the Hexafluoroacetylacetonate Derivative by Stable Isotope Dilution Gas Chromatography and Negative-Ion Chemical Ionization Mass Spectrometry. Analytical Biochemistry, 1996, 238, 129-136.	2.4	19
156	Interleukin-1 Reduces the Glycolytic Utilization of Glucose by Pancreatic Islets and Reduces Glucokinase mRNA Content and Protein Synthesis by a Nitric Oxide-dependent Mechanism. Journal of Biological Chemistry, 1997, 272, 17827-17835.	3.4	19
157	Characterization of phthiocerol and phthiodiolone dimycocerosate esters of M. tuberculosis by multiple-stage linear ion-trap MS. Journal of Lipid Research, 2016, 57, 142-155.	4.2	19
158	Î"6-, Stearoyl CoA-, and Î"5-desaturase enzymes are expressed in Î²-cells and are altered by increases in exogenous PUFA concentrations. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2002, 1580, 40-56.	2.4	18
159	Skeletal Muscle Group VIA Phospholipase A₂ (iPLA₂Î²): Expression and Role in Fatty Acid Oxidation. Biochemistry, 2008, 47, 12241-12249.	2.5	18
160	Calcium-Independent Phospholipase A₂Î² Is Dispensable in Inflammasome Activation and Its Inhibition by Bromoenol Lactone. Journal of Innate Immunity, 2009, 1, 607-617.	3.8	18
161	Quantification of distinct molecular species of platelet activating factor in ulcerative colitis. Lipids, 1996, 31, S255-S259.	1.7	17
162	Genetic ablation of calcium-independent phospholipase A₂Î² causes hypercontractility and markedly attenuates endothelium-dependent relaxation to acetylcholine. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H2208-H2220.	3.2	17

#	Article	IF	Citations
163	Development of diabetes in lean Ncb5or-null mice is associated with manifestations of endoplasmic reticulum and oxidative stress in beta cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 1532-1541.	3.8	17
164	Structural Definition of Trehalose 6-Monomycolates and Trehalose 6,6'-Dimycolates from the Pathogen Rhodococcus equi by Multiple-Stage Linear Ion-Trap Mass Spectrometry with Electrospray Ionization. Journal of the American Society for Mass Spectrometry, 2011, 22, 2160-2170.	2.8	17
165	Arachidonic acid metabolism in isolated pancreatic islets. V. The enantiomeric composition of 12-hydroxy-5,8,10,14-eicosatetraenoic acid indicates synthesis by a 12-lipoxygenase rather than a monooxygenase. Lipids and Lipid Metabolism, 1989, 1001, 16-24.	2.6	16
166	Toward total structural analysis of cardiolipins: multiple-stage linear ion-trap mass spectrometry on the [M âˆ’ 2H + 3Li]⁺ ions. Journal of the American Society for Mass Spectrometry, 2010, 21, 1863-1869.	2.8	16
167	Activation of group VI phospholipase A2 isoforms in cardiac endothelial cells. American Journal of Physiology - Cell Physiology, 2011, 300, C872-C879.	4.6	16
168	Characterization of mycobacterial triacylglycerols and monomeromycolyl diacylglycerols from Mycobacterium smegmatis biofilm by electrospray ionization multiple-stage and high-resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2013, 405, 7415-7426.	3.7	16
169	Characterization of N-terminal processing of group VIA phospholipase A2 and of potential cleavage sites of amyloid precursor protein constructs by automated identification of signature peptides in LC/MS/MS analyses of proteolytic digests. Journal of the American Society for Mass Spectrometry, 2004, 15, 1780-1793.	2.8	15
170	Nuclear type II [3H]estradiol binding sites: A histone H3â€“H4 complex. Journal of Steroid Biochemistry and Molecular Biology, 2005, 96, 19-30.	2.5	15
171	Effects of Endoplasmic Reticulum Stress on Group VIA Phospholipase A2 in Beta Cells Include Tyrosine Phosphorylation and Increased Association with Calnexin*. Journal of Biological Chemistry, 2010, 285, 33843-33857.	3.4	14
172	Quantitation ofmyo-inositol as its hexakis(trifluoroacetyl) derivative with negative ion chemical ionization mass spectrometry. Biological Mass Spectrometry, 1986, 13, 237-244.	0.5	13
173	Quantitative stereochemical analysis of subnanogram amounts of 12-hydroxy-(5,8,10,14)-eicosatetraenoic acid by sequential chiral phase liquid chromatography and stable isotope dilution mass spectrometry. Analytical Biochemistry, 1988, 174, 580-588.	2.4	13
174	Structural determination of glycopeptidolipids of Mycobacterium smegmatis by highâ€resolution multipleâ€stage linear ionâ€trap mass spectrometry with electrospray ionization. Journal of Mass Spectrometry, 2012, 47, 1269-1281.	1.6	13
175	Mice with Genetic Deletion of Group VIA Phospholipase A ₂ Î² Exhibit Impaired Macrophage Function and Increased Parasite Load in Trypanosoma cruzi-Induced Myocarditis. Infection and Immunity, 2016, 84, 1137-1142.	2.2	13
176	Linear ion-trap MSn with high-resolution MS reveals structural diversity of 1-O-acylceramide family in mouse epidermis. Journal of Lipid Research, 2017, 58, 772-782.	4.2	11
177	Arachidonic Acid Mobilizes Intracellular Ca2+in Islets. Annals of the New York Academy of Sciences, 1987, 494, 168-170.	3.8	10
178	Characterization of expression of phosphofructokinase isoforms in isolated rat pancreatic islets and purified beta cells and cloning and expression of the rat phosphofructokinase-A isoform. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1996, 1308, 151-163.	2.4	10
179	Reconstitution of the type II [3H]estradiol binding site with recombinant histone H4. Journal of Steroid Biochemistry and Molecular Biology, 2006, 99, 1-8.	2.5	10
180	Absence of calcium-independent phospholipase A2Î²impairs platelet-activating factor production and inflammatory cell recruitment inTrypanosoma cruzi-infected endothelial cells. Physiological Reports, 2014, 2, e00196.	1.7	10

#	Article	IF	Citations
181	Differentiation of Amphetamine/Methamphetamine and Other Cross-Immunoreactive Sympathomimetic Amines in Urine Samples by Serial Dilution Testing. Clinical Chemistry, 2006, 52, 743-746.	3.2	9
182	Regulation of the nitric oxide pathway genes by tetrahydrofurandiols: Microarray analysis of MCF-7 human breast cancer cells. Cancer Letters, 2008, 264, 265-273.	7.2	9
183	Structural studies on archaeal phytanyl-ether lipids isolated from membranes of extreme halophiles by linear ion-trap multiple-stage tandem mass spectrometry with electrospray ionization. Analytica Chimica Acta, 2013, 771, 73-85.	5.4	8
184	Metabolic Effects of Selective Deletion of Group VIA Phospholipase A2 from Macrophages or Pancreatic Islet Beta-Cells. Biomolecules, 2020, 10, 1455.	4.0	8
185	Multiple-stage Precursor Ion Separation and High Resolution Mass Spectrometry toward Structural Characterization of 2,3-Diacyltrehalose Family from Mycobacterium tuberculosis. Separations, 2019, 6, 4.	2.4	7
186	Group VIB Phospholipase A₂Promotes Proliferation of INS-1 Insulinoma Cells and Attenuates Lipid Peroxidation and Apoptosis Induced by Inflammatory Cytokines and Oxidant Agents. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-16.	4.0	6
187	Beta-cell injury in Ncb5or-null mice is exacerbated by consumption of a high-fat diet. European Journal of Lipid Science and Technology, 2012, 114, 233-243.	1.5	6
188	Quantification of distinct molecular species of the 2-lyso metabolite of platelet-activating factor by gas chromatographyâ€"negative-ion chemical ionization mass spectrometry. Biomedical Applications, 1992, 575, 183-196.	1.7	5
189	Effects of arachidonyltrifluoromethyl ketone on cytosolic [Ca2+] in HIT insulinoma cells. Journal of Lipid Mediators and Cell Signalling, 1997, 17, 65-70.	0.9	4
190	Structural Determination of a New Peptidolipid Family from Rhodococcus opacus and the Pathogen Rhodococcus equi by Multiple Stage Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 611-623.	2.8	3
191	Characterization of phosphatidylethanolamine as a lithiated adduct by triple quadrupole tandem mass spectrometry with electrospray ionization. Journal of Mass Spectrometry, 2000, 35, 595.	1.6	1
192	Phospholipid hydrolysis in pancreatic islet beta cells and the regulation of insulin secretion. Advances in Lipobiology, 1996, 1, 215-239.	0.2	0
193	Electrospray Ionization with Low-Energy Collisionally Activated Dissociation Tandem Mass Spectrometry of Complex Lipids. , 2005, , .		0