Sasanka Ramanadham

List of Publications by Year
in descending order

59 papers	7,536 citations	126708 33 h-index	133063 59 g-index
59 all docs	59 docs citations	59 times ranked	14854 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	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.	1.6	153
3	Calcium-independent phospholipases A2 and their roles in biological processes and diseases. Journal of Lipid Research, 2015, 56, 1643-1668.	2.0	151
4	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.	1.2	132
5	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.	1.2	123
6	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.	1.6	101
7	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.	1.6	96
8	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.	1.6	95
9	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.	1.2	93
10	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.	1.0	87
11	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.	1.6	86
12	Calcium-independent Phospholipase A2 (iPLA2Î²)-mediated Ceramide Generation Plays a Key Role in the Cross-talk between the Endoplasmic Reticulum (ER) and Mitochondria during ER Stress-induced Insulin-secreting Cell Apoptosis. Journal of Biological Chemistry, 2008, 283, 34819-34832.	1.6	80
13	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.	1.2	79
14	Mass spectrometric identification and quantitation of arachidonate-containing phospholipids in pancreatic islets: Prominence of plasmenylethanolamine molecular species. Biochemistry, 1993, 32, 5339-5351.	1.2	78
15	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.	1.6	74
16	The Group VIA Calcium-Independent Phospholipase A₂ Participates in ER Stress-Induced INS-1 Insulinoma Cell Apoptosis by Promoting Ceramide Generation via Hydrolysis of Sphingomyelins by Neutral Sphingomyelinase. Biochemistry, 2007, 46, 10170-10185.	1.2	74
17	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.	1.6	69
18	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.	1.2	67

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19	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.	1.2	61
20	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.	1.6	60
21	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.	1.4	55
22	Age-Related Changes in Bone Morphology Are Accelerated in Group VIA Phospholipase A2 (iPLA2Î²)-Null Mice. American Journal of Pathology, 2008, 172, 868-881.	1.9	55
23	Spontaneous Development of Endoplasmic Reticulum Stress That Can Lead to Diabetes Mellitus Is Associated with Higher Calcium-independent Phospholipase A2 Expression. Journal of Biological Chemistry, 2010, 285, 6693-6705.	1.6	54
24	A Bromoenol Lactone Suicide Substrate Inactivates Group VIA Phospholipase A2by Generating a Diffiusible Bromomethyl Keto Acid That Alkylates Cysteine Thiolsâ€. Biochemistry, 2006, 45, 1061-1073.	1.2	53
25	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.	1.6	52
26	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.	1.6	50
27	Group VIA Ca2+-independent phospholipase A2 (iPLA2Î²) and its role in Î²-cell programmed cell death. Biochimie, 2010, 92, 627-637.	1.3	48
28	Studies of phospholipid metabolism, proliferation, and secretion of stably transfected insulinoma cells that overexpress group VIA phospholipase A2. Lipids, 2001, 36, 689-700.	0.7	46
29	Inhibition of Ca2+-Independent Phospholipase A2Î² (iPLA2Î²) Ameliorates Islet Infiltration and Incidence of Diabetes in NOD Mice. Diabetes, 2015, 64, 541-554.	0.3	42
30	Group VIA Phospholipase A2 Forms a Signaling Complex with the Calcium/Calmodulin-dependent Protein Kinase IIIÎ² Expressed in Pancreatic Islet Î²-Cells. Journal of Biological Chemistry, 2005, 280, 6840-6849.	1.6	39
31	Dysfunctional mitochondrial bioenergetics and oxidative stress in Akita^{+/Ins2}-derived Î²-cells. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E585-E599.	1.8	39
32	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.	1.2	38
33	Polarization of Macrophages toward M2 Phenotype Is Favored by Reduction in iPLA2Î² (Group VIA) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	38
34	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.	1.8	34
35	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.	0.3	34
36	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.	0.7	30

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37	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.	1.2	30
38	Role of calcium-independent phospholipase A₂Î² in human pancreatic islet Î²-cell apoptosis. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1386-E1395.	1.8	29
39	Evidence for proteolytic processing and stimulated organelle redistribution of iPLA2Î². Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 547-558.	1.2	28
40	Characterization of FKGK18 as Inhibitor of Group VIA Ca2+-Independent Phospholipase A2 (iPLA2Î²): Candidate Drug for Preventing Beta-Cell Apoptosis and Diabetes. PLoS ONE, 2013, 8, e71748.	1.1	28
41	Genetic modulation of islet Î²-cell iPLA₂Î² expression provides evidence for its impact on Î²-cell apoptosis and autophagy. Islets, 2013, 5, 29-44.	0.9	27
42	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
43	Islet Complex Lipids: Involvement in the Actions of Group VIA Calcium-Independent Phospholipase A2 in Â-Cells. Diabetes, 2004, 53, S179-S185.	0.3	25
44	Evidence of Contribution of iPLA2Î²-Mediated Events During Islet Î²-Cell Apoptosis Due to Proinflammatory Cytokines Suggests a Role for iPLA2Î² in T1D Development. Endocrinology, 2014, 155, 3352-3364.	1.4	23
45	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.	1.2	22
46	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.	1.2	18
47	Group VIA Phospholipase A2 (iPLA2Î²) Modulates Bcl-x 5â€²-Splice Site Selection and Suppresses Anti-apoptotic Bcl-x(L) in Î²-Cells. Journal of Biological Chemistry, 2015, 290, 11021-11031.	1.6	17
48	Macrophage polarization is linked to Ca2+-independent phospholipase A2Î²-derived lipids and cross-cell signaling in mice. Journal of Lipid Research, 2020, 61, 143-158.	2.0	17
49	Saturated Hydroxy Fatty Acids Exhibit a Cell Growth Inhibitory Activity and Suppress the Cytokine-Induced Î²-Cell Apoptosis. Journal of Medicinal Chemistry, 2020, 63, 12666-12681.	2.9	15
50	Lipid mediators and biomarkers associated with type 1 diabetes development. JCI Insight, 2020, 5, .	2.3	15
51	Promiscuity of the catalytic Sec7 domain within the guanine nucleotide exchange factor GBF1 in ARF activation, Golgi homeostasis, and effector recruitment. Molecular Biology of the Cell, 2019, 30, 1523-1535.	0.9	10
52	Targeting Acid Ceramidase Inhibits Glioblastoma Cell Migration through Decreased AKT Signaling. Cells, 2022, 11, 1873.	1.8	9
53	Metabolic Effects of Selective Deletion of Group VIA Phospholipase A2 from Macrophages or Pancreatic Islet Beta-Cells. Biomolecules, 2020, 10, 1455.	1.8	8
54	Extracellular vesicles in Î² cell biology: Role of lipids in vesicle biogenesis, cargo, and intercellular signaling. Molecular Metabolism, 2022, 63, 101545.	3.0	7

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55	Novel effects of Brefeldin A (BFA) in signaling through the insulin receptor (IR) pathway and regulating FoxO1-mediated transcription. Cellular Logistics, 2014, 4, e27732.	0.9	6
56	Î²-Lactones: A Novel Class of Ca2+-Independent Phospholipase A2 (Group VIA iPLA2) Inhibitors with the Ability To Inhibit Î²-Cell Apoptosis. Journal of Medicinal Chemistry, 2019, 62, 2916-2927.	2.9	6
57	Alterations in Î²-Cell Sphingolipid Profile Associated with ER Stress and iPLA2Î²: Another Contributor to Î²-Cell Apoptosis in Type 1 Diabetes. Molecules, 2021, 26, 6361.	1.7	2
58	The Impact of the Ca2+-Independent Phospholipase A2Î² (iPLA2Î²) on Immune Cells. Biomolecules, 2021, 11, 577.	1.8	1
59	Ca2+-independent phospholipase A2Î²-derived PGE2 contributes to osteogenesis. Prostaglandins and Other Lipid Mediators, 2022, 158, 106605.	1.0	1