

Scott A Summers

List of Publications by Year in descending order

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95
papers

13,943
citations

34105

52
h-index

42399

92
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docs citations

98
times ranked

15651
citing authors

#	ARTICLE	IF	CITATIONS
1	Expression of a Constitutively Active Akt Ser/Thr Kinase in 3T3-L1 Adipocytes Stimulates Glucose Uptake and Glucose Transporter 4 Translocation. <i>Journal of Biological Chemistry</i> , 1996, 271, 31372-31378.	3.4	1,115
2	Inhibition of Ceramide Synthesis Ameliorates Glucocorticoid-, Saturated-Fat-, and Obesity-Induced Insulin Resistance. <i>Cell Metabolism</i> , 2007, 5, 167-179.	16.2	1,048
3	Receptor-mediated activation of ceramidase activity initiates the pleiotropic actions of adiponectin. <i>Nature Medicine</i> , 2011, 17, 55-63.	30.7	751
4	Lipid-induced insulin resistance mediated by the proinflammatory receptor TLR4 requires saturated fatty acid-induced ceramide biosynthesis in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 1858-1870.	8.2	566
5	A Ceramide-Centric View of Insulin Resistance. <i>Cell Metabolism</i> , 2012, 15, 585-594.	16.2	505
6	A Role for Ceramide, but Not Diacylglycerol, in the Antagonism of Insulin Signal Transduction by Saturated Fatty Acids. <i>Journal of Biological Chemistry</i> , 2003, 278, 10297-10303.	3.4	500
7	Sphingolipids, Insulin Resistance, and Metabolic Disease: New Insights from in Vivo Manipulation of Sphingolipid Metabolism. <i>Endocrine Reviews</i> , 2008, 29, 381-402.	20.1	480
8	Ceramides – Lipotoxic Inducers of Metabolic Disorders. <i>Trends in Endocrinology and Metabolism</i> , 2015, 26, 538-550.	7.1	463
9	Characterizing the effects of saturated fatty acids on insulin signaling and ceramide and diacylglycerol accumulation in 3T3-L1 adipocytes and C2C12 myotubes. <i>Archives of Biochemistry and Biophysics</i> , 2003, 419, 101-109.	3.0	427
10	Regulation of Insulin-Stimulated Glucose Transporter GLUT4 Translocation and Akt Kinase Activity by Ceramide. <i>Molecular and Cellular Biology</i> , 1998, 18, 5457-5464.	2.3	411
11	CerS2 Haploinsufficiency Inhibits β -Oxidation and Confers Susceptibility to Diet-Induced Steatohepatitis and Insulin Resistance. <i>Cell Metabolism</i> , 2014, 20, 687-695.	16.2	379
12	Ceramides as modulators of cellular and whole-body metabolism. <i>Journal of Clinical Investigation</i> , 2011, 121, 4222-4230.	8.2	350
13	Regulation of Insulin Action by Ceramide. <i>Journal of Biological Chemistry</i> , 2004, 279, 36608-36615.	3.4	338
14	Inhibition of Akt Kinase by Cell-permeable Ceramide and Its Implications for Ceramide-induced Apoptosis. <i>Journal of Biological Chemistry</i> , 1998, 273, 16568-16575.	3.4	315
15	Sphingolipids and phospholipids in insulin resistance and related metabolic disorders. <i>Nature Reviews Endocrinology</i> , 2017, 13, 79-91.	9.6	313
16	Targeting a ceramide double bond improves insulin resistance and hepatic steatosis. <i>Science</i> , 2019, 365, 386-392.	12.6	304
17	Caffeine stimulates hepatic lipid metabolism by the autophagy-lysosomal pathway in mice. <i>Hepatology</i> , 2014, 59, 1366-1380.	7.3	285
18	Construction and Characterization of a Conditionally Active Version of the Serine/Threonine Kinase Akt. <i>Journal of Biological Chemistry</i> , 1998, 273, 11937-11943.	3.4	281

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19	Thyroid hormone stimulates hepatic lipid catabolism via activation of autophagy. <i>Journal of Clinical Investigation</i> , 2012, 122, 2428-2438.	8.2	211
20	Ceramide Mediates Vascular Dysfunction in Diet-Induced Obesity by PP2A-Mediated Dephosphorylation of the eNOS-Akt Complex. <i>Diabetes</i> , 2012, 61, 1848-1859.	0.6	193
21	Acid Ceramidase Overexpression Prevents the Inhibitory Effects of Saturated Fatty Acids on Insulin Signaling. <i>Journal of Biological Chemistry</i> , 2005, 280, 20148-20153.	3.4	188
22	The Role of Glycogen Synthase Kinase 3 β in Insulin-stimulated Glucose Metabolism. <i>Journal of Biological Chemistry</i> , 1999, 274, 17934-17940.	3.4	187
23	Extensive diversity in circadian regulation of plasma lipids and evidence for different circadian metabolic phenotypes in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14468-14473.	7.1	186
24	Adipocyte Ceramides Regulate Subcutaneous Adipose Browning, Inflammation, and Metabolism. <i>Cell Metabolism</i> , 2016, 24, 820-834.	16.2	186
25	Steroidogenic Acute Regulatory Protein (StAR) Is A Sterol Transfer Protein. <i>Journal of Biological Chemistry</i> , 1998, 273, 26285-26288.	3.4	185
26	Protein Kinase A-Dependent and -Independent Signaling Pathways Contribute to Cyclic AMP-Stimulated Proliferation. <i>Molecular and Cellular Biology</i> , 1999, 19, 5882-5891.	2.3	174
27	A Role for Sphingolipids in Producing the Common Features of Type 2 Diabetes, Metabolic Syndrome X, and Cushing's Syndrome. <i>Diabetes</i> , 2005, 54, 591-602.	0.6	168
28	Ceramides and other sphingolipids as drivers of cardiovascular disease. <i>Nature Reviews Cardiology</i> , 2021, 18, 701-711.	13.7	160
29	Metabolic Messengers: ceramides. <i>Nature Metabolism</i> , 2019, 1, 1051-1058.	11.9	158
30	Machine learning reveals serum sphingolipids as cholesterol-independent biomarkers of coronary artery disease. <i>Journal of Clinical Investigation</i> , 2020, 130, 1363-1376.	8.2	141
31	Lipid oversupply, selective insulin resistance, and lipotoxicity: Molecular mechanisms. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 252-265.	2.4	138
32	Ceramide dissociates 3 α -phosphoinositide production from pleckstrin homology domain translocation. <i>Biochemical Journal</i> , 2001, 354, 359-368.	3.7	132
33	Could Ceramides Become the New Cholesterol?. <i>Cell Metabolism</i> , 2018, 27, 276-280.	16.2	126
34	Sphingolipids and insulin resistance: the five Ws. <i>Current Opinion in Lipidology</i> , 2010, 21, 128-135.	2.7	125
35	Dihydroceramides: From Bit Players to Lead Actors. <i>Journal of Biological Chemistry</i> , 2015, 290, 15371-15379.	3.4	121
36	Ceramides in Metabolism: Key Lipotoxic Players. <i>Annual Review of Physiology</i> , 2021, 83, 303-330.	13.1	120

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37	Fenretinide Prevents Lipid-induced Insulin Resistance by Blocking Ceramide Biosynthesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 17426-17437.	3.4	110
38	Ceramides and Glucosylceramides Are Independent Antagonists of Insulin Signaling. <i>Journal of Biological Chemistry</i> , 2014, 289, 723-734.	3.4	107
39	Ablation of AMP-Activated Protein Kinase $\alpha 2$ Activity Exacerbates Insulin Resistance Induced by High-Fat Feeding of Mice. <i>Diabetes</i> , 2008, 57, 2958-2966.	0.6	102
40	Solenopsin, the alkaloidal component of the fire ant (<i>Solenopsis invicta</i>), is a naturally occurring inhibitor of phosphatidylinositol-3-kinase signaling and angiogenesis. <i>Blood</i> , 2007, 109, 560-565.	1.4	96
41	Identification of Wortmannin-sensitive Targets in 3T3-L1 Adipocytes. <i>Journal of Biological Chemistry</i> , 1999, 274, 24677-24684.	3.4	92
42	Ceramide-Initiated Protein Phosphatase 2A Activation Contributes to Arterial Dysfunction In Vivo. <i>Diabetes</i> , 2015, 64, 3914-3926.	0.6	92
43	Signaling Pathways Mediating Insulin-Stimulated Glucose Transport. <i>Annals of the New York Academy of Sciences</i> , 1999, 892, 169-186.	3.8	91
44	Ceramide dissociates β -phosphoinositide production from pleckstrin homology domain translocation. <i>Biochemical Journal</i> , 2001, 354, 359.	3.7	81
45	Ablation of Dihydroceramide Desaturase 1, a Therapeutic Target for the Treatment of Metabolic Diseases, Simultaneously Stimulates Anabolic and Catabolic Signaling. <i>Molecular and Cellular Biology</i> , 2013, 33, 2353-2369.	2.3	78
46	Fat-cell mass, serum leptin and adiponectin changes during weight gain and loss in yellow-bellied marmots (<i>Marmota flaviventris</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2004, 174, 633-639.	1.5	71
47	Autophagy Ablation in Adipocytes Induces Insulin Resistance and Reveals Roles for Lipid Peroxide and Nrf2 Signaling in Adipose-Liver Crosstalk. <i>Cell Reports</i> , 2018, 25, 1708-1717.e5.	6.4	70
48	Profiling of Plasma Metabolites Suggests Altered Mitochondrial Fuel Usage and Remodeling of Sphingolipid Metabolism in Individuals With Type 2 Diabetes and Kidney Disease. <i>Kidney International Reports</i> , 2017, 2, 470-480.	0.8	68
49	Plasma Ceramides as Prognostic Biomarkers and Their Arterial and Myocardial Tissue Correlates in Acute Myocardial Infarction. <i>JACC Basic To Translational Science</i> , 2018, 3, 163-175.	4.1	64
50	A Role for Ceramides, but Not Sphingomyelins, as Antagonists of Insulin Signaling and Mitochondrial Metabolism in C2C12 Myotubes. <i>Journal of Biological Chemistry</i> , 2016, 291, 23978-23988.	3.4	58
51	Differentiation-dependent Suppression of Platelet-derived Growth Factor Signaling in Cultured Adipocytes. <i>Journal of Biological Chemistry</i> , 1999, 274, 23858-23867.	3.4	57
52	Increased Dihydroceramide/Ceramide Ratio Mediated by Defective Expression of <i>degs1</i> Impairs Adipocyte Differentiation and Function. <i>Diabetes</i> , 2015, 64, 1180-1192.	0.6	55
53	Polyoma Middle T Antigen Activates the Ser/Thr Kinase Akt in a PI3-Kinase-Dependent Manner. <i>Biochemical and Biophysical Research Communications</i> , 1998, 246, 76-81.	2.1	52
54	Mitochondrial pyruvate carrier is required for optimal brown fat thermogenesis. <i>ELife</i> , 2020, 9, .	6.0	45

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55	Adipocyte Ceramidesâ€”The Nexus of Inflammation and Metabolic Disease. <i>Frontiers in Immunology</i> , 2020, 11, 576347.	4.8	43
56	CrossTalk proposal: Intramyocellular ceramide accumulation does modulate insulin resistance. <i>Journal of Physiology</i> , 2016, 594, 3167-3170.	2.9	39
57	Reign in the membrane: How common lipids govern mitochondrial function. <i>Current Opinion in Cell Biology</i> , 2020, 63, 162-173.	5.4	39
58	The ceramide ratio: a predictor of cardiometabolic risk. <i>Journal of Lipid Research</i> , 2018, 59, 1549-1550.	4.2	36
59	Expression of ceramide-metabolising enzymes in subcutaneous and intra-abdominal human adipose tissue. <i>Lipids in Health and Disease</i> , 2012, 11, 115.	3.0	33
60	Cholesterol â€” the devil you know; ceramide â€” the devil you donâ€™t. <i>Trends in Pharmacological Sciences</i> , 2021, 42, 1082-1095.	8.7	31
61	Phospholipid methylation regulates muscle metabolic rate through Ca ²⁺ transport efficiency. <i>Nature Metabolism</i> , 2019, 1, 876-885.	11.9	30
62	Essential nutrient supplementation prevents heritable metabolic disease in multigenerational intrauterine growthâ€”restricted rats. <i>FASEB Journal</i> , 2015, 29, 807-819.	0.5	29
63	Too Much of a Good Thing? An Evolutionary Theory to Explain the Role of Ceramides in NAFLD. <i>Frontiers in Endocrinology</i> , 2020, 11, 505.	3.5	27
64	Ceramides are necessary and sufficient for diet-induced impairment of thermogenic adipocytes. <i>Molecular Metabolism</i> , 2021, 45, 101145.	6.5	26
65	Substitution of conserved tyrosine residues in helix 4 (Y143) and 7 (Y293) affects the activity, but not IAPS-forskolin binding, of the glucose transporter GLUT4. <i>FEBS Letters</i> , 1994, 348, 114-118.	2.8	24
66	Influence of Exercise Training on Skeletal Muscle Insulin Resistance in Aging: Spotlight on Muscle Ceramides. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1514.	4.1	24
67	Antioxidant Effects of N-Acetylcysteine Prevent Programmed Metabolic Disease in Mice. <i>Diabetes</i> , 2020, 69, 1650-1661.	0.6	23
68	Conditional deletion of <i>Des1</i> in the mouse retina does not impair the visual cycle in cones. <i>FASEB Journal</i> , 2019, 33, 5782-5792.	0.5	22
69	Molecular pathways reflecting poor intrauterine growth are found in Wharton's jelly-derived mesenchymal stem cells. <i>Human Reproduction</i> , 2014, 29, 2287-2301.	0.9	19
70	Ceramides: Nutrient Signals that Drive Hepatosteatosis. <i>Journal of Lipid and Atherosclerosis</i> , 2020, 9, 50.	3.5	19
71	The ART of Lowering Ceramides. <i>Cell Metabolism</i> , 2015, 22, 195-196.	16.2	16
72	Risky lipids: refining the ceramide score that measures cardiovascular health. <i>European Heart Journal</i> , 2019, 41, 381-382.	2.2	16

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73	Ceramide Biomarkers Predictive of Cardiovascular Disease Risk Increase in Healthy Older Adults After Bed Rest. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 1663-1670.	3.6	16
74	Strong Heart, Low Ceramides. <i>Diabetes</i> , 2018, 67, 1457-1460.	0.6	15
75	Rotten to the Cortex: Ceramide-Mediated Lipotoxicity in Diabetic Kidney Disease. <i>Frontiers in Endocrinology</i> , 2020, 11, 622692.	3.5	15
76	Pharmacological inhibition of TLR4 ameliorates muscle and liver ceramide content after disuse in previously physically active mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R503-R511.	1.8	13
77	DES1: A Key Driver of Lipotoxicity in Metabolic Disease. <i>DNA and Cell Biology</i> , 2020, 39, 733-737.	1.9	11
78	Cordyceps inhibits ceramide biosynthesis and improves insulin resistance and hepatic steatosis. <i>Scientific Reports</i> , 2022, 12, 7273.	3.3	10
79	Characterizing a Common CERS2 Polymorphism in a Mouse Model of Metabolic Disease and in Subjects from the Utah CAD Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e3098-e3109.	3.6	8
80	Physiological mechanisms of sustained fumagillin-induced weight loss. <i>JCI Insight</i> , 2018, 3, .	5.0	8
81	Does This Schlank Make Me Look Fat?. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 597-599.	7.1	7
82	FOXN3 controls liver glucose metabolism by regulating gluconeogenic substrate selection. <i>Physiological Reports</i> , 2019, 7, e14238.	1.7	6
83	Ceramide signaling in the gut. <i>Molecular and Cellular Endocrinology</i> , 2022, 544, 111554.	3.2	6
84	The Lard Works in Mysterious Ways: Ceramides in Nutrition-Linked Chronic Disease. <i>Annual Review of Nutrition</i> , 2022, 42, 115-144.	10.1	6
85	Following Roux-en-Y gastric bypass surgery, serum ceramides demarcate patients that will fail to achieve normoglycemia and diabetes remission. <i>Med</i> , 2022, 3, 452-467.e4.	4.4	6
86	You aren't IMMUNE to the ceramides that accumulate in cardiometabolic disease. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022, 1867, 159125.	2.4	4
87	Editorial: The Role of Ceramides in Diabetes and Cardiovascular Disease. <i>Frontiers in Endocrinology</i> , 2021, 12, 667885.	3.5	3
88	Very-Long-Chain Unsaturated Sphingolipids Mediate Oleate-Induced Rat β^2 -Cell Proliferation. <i>Diabetes</i> , 2022, 71, 1218-1232.	0.6	3
89	Short-term exposure to a clinical dose of metformin increases skeletal muscle mitochondrial H ₂ O ₂ emission and production in healthy, older adults: A randomized controlled trial. <i>Experimental Gerontology</i> , 2022, 163, 111804.	2.8	3
90	Gain of α -FAOncation™, Loss of Fibrosis. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 333-334.	7.1	2

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91	Listen to your heart when ceramide's calling for higher glucose. EBioMedicine, 2019, 41, 3-4.	6.1	1
92	50th International Conference on the Bioscience of Lipids. Clinical Lipidology, 2009, 4, 713-719.	0.4	0
93	Rebuttal from Scott A. Summers and Bret H. Goodpaster. Journal of Physiology, 2016, 594, 3175-3176.	2.9	0
94	Gutting out Myc to decrease ceramides. Nature Metabolism, 2021, 3, 890-891.	11.9	0
95	Deletion of miR-92a Results in Glucose Intolerance via Impaired Pancreatic Beta Cell Function. FASEB Journal, 2019, 33, 714.2.	0.5	0