

Agnieszka Dobrzyn

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81

papers

3,343

citations

31

h-index

57

g-index

91

ext. papers

3,767

ext. citations

5.1

avg, IF

5.04

L-index

#	Paper	IF	Citations
81	Stearoyl-CoA desaturase 1 deficiency increases fatty acid oxidation by activating AMP-activated protein kinase in liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6409-14	11.5	312
80	Stearoyl-CoA desaturase 1 gene expression is necessary for fructose-mediated induction of lipogenic gene expression by sterol regulatory element-binding protein-1c-dependent and -independent mechanisms. <i>Journal of Biological Chemistry</i> , 2004 , 279, 25164-71	5.4	217
79	Stearoyl-CoA desaturase-1 mediates the pro-lipogenic effects of dietary saturated fat. <i>Journal of Biological Chemistry</i> , 2007 , 282, 2483-93	5.4	169
78	Stearoyl-CoA desaturase 1 deficiency elevates insulin-signaling components and down-regulates protein-tyrosine phosphatase 1B in muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 11110-5	11.5	151
77	Stearoyl-CoA desaturase as a new drug target for obesity treatment. <i>Obesity Reviews</i> , 2005 , 6, 169-74	10.6	144
76	The role of stearoyl-CoA desaturase in the control of metabolism. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2005 , 73, 35-41	2.8	120
75	Stearoyl-CoA desaturase-1 deficiency reduces ceramide synthesis by downregulating serine palmitoyltransferase and increasing beta-oxidation in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E599-607	6	120
74	Stearoyl-CoA desaturase-2 gene expression is required for lipid synthesis during early skin and liver development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12501-6	11.5	113
73	Mitochondria and Reactive Oxygen Species in Aging and Age-Related Diseases. <i>International Review of Cell and Molecular Biology</i> , 2018 , 340, 209-344	6	102
72	Interaction of Mitochondria with the Endoplasmic Reticulum and Plasma Membrane in Calcium Homeostasis, Lipid Trafficking and Mitochondrial Structure. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	99
71	Regulation of stearoyl-CoA desaturase expression. <i>Lipids</i> , 2004 , 39, 1061-5	1.6	99
70	Reduced adiposity and liver steatosis by stearoyl-CoA desaturase deficiency are independent of peroxisome proliferator-activated receptor-alpha. <i>Journal of Biological Chemistry</i> , 2004 , 279, 35017-24	5.4	96
69	The role of stearoyl-CoA desaturase in body weight regulation. <i>Trends in Cardiovascular Medicine</i> , 2004 , 14, 77-81	6.9	90
68	Lack of stearoyl-CoA desaturase 1 upregulates basal thermogenesis but causes hypothermia in a cold environment. <i>Journal of Lipid Research</i> , 2004 , 45, 1674-82	6.3	85
67	Mitochondria-associated membranes in aging and senescence: structure, function, and dynamics. <i>Cell Death and Disease</i> , 2018 , 9, 332	9.8	79
66	Stearoyl-CoA desaturase-1 deficiency attenuates obesity and insulin resistance in leptin-resistant obese mice. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 380, 818-22	3.4	77
65	Ceramides and sphingomyelins in skeletal muscles of the rat: content and composition. Effect of prolonged exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 282, E277-85	6	76

64	Exercise and training effects on ceramide metabolism in human skeletal muscle. <i>Experimental Physiology</i> , 2004 , 89, 119-27	2.4	65
63	Stearoyl-CoA desaturase 1 deficiency increases insulin signaling and glycogen accumulation in brown adipose tissue. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E381-7	6	64
62	Isolation and characterization of unsaturated fatty acids as natural ligands for the retinoid-X receptor. <i>Archives of Biochemistry and Biophysics</i> , 2003 , 420, 185-93	4.1	61
61	Islet β cell failure in type 2 diabetes--Within the network of toxic lipids. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 460, 491-6	3.4	60
60	Stearoyl-CoA desaturase and insulin signaling--what is the molecular switch?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 1189-94	4.6	57
59	CB1 cannabinoid receptors couple to focal adhesion kinase to control insulin release. <i>Journal of Biological Chemistry</i> , 2013 , 288, 32685-32699	5.4	50
58	Loss of stearoyl-CoA desaturase 1 inhibits fatty acid oxidation and increases glucose utilization in the heart. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 294, E357-64	6	50
57	Statin therapy and new-onset diabetes: molecular mechanisms and clinical relevance. <i>Current Pharmaceutical Design</i> , 2013 , 19, 4904-12	3.3	47
56	Loss of stearoyl-CoA desaturase 1 rescues cardiac function in obese leptin-deficient mice. <i>Journal of Lipid Research</i> , 2010 , 51, 2202-10	6.3	40
55	Stearoyl-CoA desaturase 1 deficiency increases CTP:choline cytidyltransferase translocation into the membrane and enhances phosphatidylcholine synthesis in liver. <i>Journal of Biological Chemistry</i> , 2005 , 280, 23356-62	5.4	40
54	Inhibition of SCD1 impairs palmitate-derived autophagy at the step of autophagosome-lysosome fusion in pancreatic β cells. <i>Journal of Lipid Research</i> , 2015 , 56, 1901-11	6.3	38
53	Expression of lipogenic genes is upregulated in the heart with exercise training-induced but not pressure overload-induced left ventricular hypertrophy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E1348-58	6	38
52	The role of rapid lipogenesis in insulin secretion: Insulin secretagogues acutely alter lipid composition of INS-1 832/13 cells. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 470, 153-62	4.1	34
51	Fetal endocannabinoids orchestrate the organization of pancreatic islet microarchitecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E6185-94	11.5	33
50	Endurance training-induced accumulation of muscle triglycerides is coupled to upregulation of stearoyl-CoA desaturase 1. <i>Journal of Applied Physiology</i> , 2010 , 109, 1653-61	3.7	30
49	Effect of acute exercise on the content of free sphinganine and sphingosine in different skeletal muscle types of the rat. <i>Hormone and Metabolic Research</i> , 2002 , 34, 523-9	3.1	27
48	The DNA Repair Protein OGG1 Protects Against Obesity by Altering Mitochondrial Energetics in White Adipose Tissue. <i>Scientific Reports</i> , 2018 , 8, 14886	4.9	27
47	Stearoyl-CoA desaturase regulates inflammatory gene expression by changing DNA methylation level in 3T3 adipocytes. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 55, 40-50	5.6	26

46	Polyunsaturated fatty acids do not activate AMP-activated protein kinase in mouse tissues. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 332, 892-6	3.4	25
45	Metabolic reprogramming of the heart through stearoyl-CoA desaturase. <i>Progress in Lipid Research</i> , 2015 , 57, 1-12	14.3	24
44	The sphingomyelin-signaling pathway in skeletal muscles and its role in regulation of glucose uptake. <i>Annals of the New York Academy of Sciences</i> , 2002 , 967, 236-48	6.5	24
43	Two Delta9-stearic acid desaturases are required for <i>Aspergillus nidulans</i> growth and development. <i>Fungal Genetics and Biology</i> , 2004 , 41, 501-9	3.9	23
42	8-oxoguanine DNA glycosylase (OGG1) deficiency elicits coordinated changes in lipid and mitochondrial metabolism in muscle. <i>PLoS ONE</i> , 2017 , 12, e0181687	3.7	22
41	Stearoyl-CoA desaturase: A novel control point of lipid metabolism and insulin sensitivity. <i>European Journal of Lipid Science and Technology</i> , 2008 , 110, 93-100	3	20
40	Effect of acute exercise and training on metabolism of ceramide in the heart muscle of the rat. <i>Acta Physiologica Scandinavica</i> , 2004 , 181, 313-9		19
39	Adipose- and muscle-derived Wnts trigger pancreatic β cell adaptation to systemic insulin resistance. <i>Scientific Reports</i> , 2016 , 6, 31553	4.9	19
38	Stearoyl-CoA desaturase: a new therapeutic target of liver steatosis. <i>Drug Development Research</i> , 2006 , 67, 643-650	5.1	17
37	Typing of <i>Histoplasma capsulatum</i> strains by fatty acid profile analysis. <i>Journal of Medical Microbiology</i> , 2007 , 56, 788-797	3.2	16
36	Differential regulation of serum microRNA expression by HNF1 α and HNF1 β transcription factors. <i>Diabetologia</i> , 2016 , 59, 1463-1473	10.3	15
35	Impaired dynamics of the late endosome/lysosome compartment in human Niemann-Pick type C skin fibroblasts carrying mutation in NPC1 gene. <i>Molecular BioSystems</i> , 2012 , 8, 1197-205		13
34	Effect of dietary restriction on metabolic, anatomic and molecular traits in mice depends on the initial level of basal metabolic rate. <i>Journal of Experimental Biology</i> , 2012 , 215, 3191-9	3	13
33	Increased availability of endogenous and dietary oleic acid contributes to the upregulation of cardiac fatty acid oxidation. <i>Mitochondrion</i> , 2012 , 12, 132-7	4.9	12
32	Concentration and composition of free ceramides in human plasma. <i>Hormone and Metabolic Research</i> , 2002 , 34, 466-8	3.1	12
31	High-Throughput Approaches onto Uncover (Epi)Genomic Architecture of Type 2 Diabetes. <i>Genes</i> , 2018 , 9,	4.2	10
30	Novel substituted heteroaromatic compounds as inhibitors of stearoyl-CoA desaturase. <i>Expert Opinion on Therapeutic Patents</i> , 2010 , 20, 849-53	6.8	10
29	SCD1 regulates the AMPK/SIRT1 pathway and histone acetylation through changes in adenine nucleotide metabolism in skeletal muscle. <i>Journal of Cellular Physiology</i> , 2020 , 235, 1129-1140	7	10

28	Monounsaturated fatty acids are required for membrane translocation of protein kinase C- θ induced by lipid overload in skeletal muscle. <i>Molecular Membrane Biology</i> , 2012 , 29, 309-20	3.4	9
27	Fat and Sugar-A Dangerous Duet. A Comparative Review on Metabolic Remodeling in Rodent Models of Nonalcoholic Fatty Liver Disease. <i>Nutrients</i> , 2019 , 11,	6.7	9
26	Combinations of regenerative medicine and Lab-on-a-chip systems: New hope to restoring the proper function of pancreatic islets in diabetes. <i>Biosensors and Bioelectronics</i> , 2020 , 167, 112451	11.8	7
25	Omega-3 Fatty Acids Do Not Protect Against Arrhythmias in Acute Nonreperfused Myocardial Infarction Despite Some Antiarrhythmic Effects. <i>Journal of Cellular Biochemistry</i> , 2016 , 117, 2570-82	4.7	7
24	Knockdown of pyruvate carboxylase or fatty acid synthase lowers numerous lipids and glucose-stimulated insulin release in insulinoma cells. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 532, 23-31	4.1	6
23	Neutral storage lipids of <i>Histoplasma capsulatum</i> : effect of culture age. <i>Current Microbiology</i> , 2008 , 56, 110-4	2.4	6
22	Ferrous, but not ferric, iron maintains homeostasis in <i>Histoplasma capsulatum</i> triacylglycerides. <i>Current Microbiology</i> , 2008 , 57, 153-7	2.4	6
21	Bionic Organs: Shear Forces Reduce Pancreatic Islet and Mammalian Cell Viability during the Process of 3D Bioprinting. <i>Micromachines</i> , 2021 , 12,	3.3	6
20	Ceramides, sphinganine, sphingosine and acid sphingomyelinases in the human umbilical cord blood. <i>Hormone and Metabolic Research</i> , 2005 , 37, 433-7	3.1	4
19	Oleic acid increases the transcriptional activity of FoxO1 by promoting its nuclear translocation and Eatenin binding in pancreatic Ecells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019 , 1865, 2753-2764	6.9	3
18	Inhibition of stearoyl-CoA desaturase by cyclic amine derivatives. <i>Expert Opinion on Therapeutic Patents</i> , 2008 , 18, 457-460	6.8	3
17	Stearoyl-CoA desaturase: A therapeutic target of insulin resistance and diabetes. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2005 , 2, 125-128		3
16	A Novel Role for the DNA Repair Enzyme 8-Oxoguanine DNA Glycosylase in Adipogenesis. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
15	The Good, the Bad, and the Ugly - role of the pancreas, endothelium, and adipose tissue axis in the management of pancreatic Ecell failure in obesity-related type 2 diabetes. <i>Postepy Biochemii</i> , 2018 , 64, 166-174	0	2
14	Impact of Porcine Pancreas Decellularization Conditions on the Quality of Obtained dECM. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
13	Sphingolipid mediators of cell signaling and metabolism 2020 , 385-411		1
12	Stearoyl-CoA Desaturase 1 Activity Determines the Maintenance of DNMT1-Mediated DNA Methylation Patterns in Pancreatic ECells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
11	Spotlight on epigenetics as a missing link between obesity and type 2 diabetes. <i>Postepy Biochemii</i> , 2018 , 64, 157-165	0	0

10	Maternal Transmission of Human OGG1 Protects Mice Against Genetically- and Diet-Induced Obesity Through Increased Tissue Mitochondrial Content. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 718962	5.7	o
9	Elevated level of lysophosphatidic acid among patients with HNF1B mutations and its role in RCAD syndrome: a multiomic study.. <i>Metabolomics</i> , 2022 , 18, 15	4.7	o
8	Stearoyl CoA desaturase-1 mediates the pro-lipogenic effects of dietary saturated fat. <i>FASEB Journal</i> , 2007 , 21, A109	0.9	
7	SCD1 deficiency decreases hepatic lipogenesis and improves insulin sensitivity in obese mice in the presence of leptin. <i>FASEB Journal</i> , 2008 , 22, 643.5	0.9	
6	Islets therapeutic checkpoint: Inhibition of stearoyl-CoA desaturase impairs lipid droplet morphology and metabolism during palmitotoxicity of pancreatic β cells <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
5	Stearoyl-CoA desaturase 1 determines pancreatic β cell fate through regulation of DNA methylation pattern. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
4	Lab-on-a-Chip System for Developing and Fluorescence Imaging a Three-Dimensional Model of Pancreatic Islets Under Flow Conditions. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 1984-1984	0	
3	Stearoyl-CoA Desaturase in the Control of Heart Metabolism 2013 , 85-101		
2	Stearoyl-CoA desaturase affects the level of global DNA methylation in 3T3-L1 adipocytes. <i>FASEB Journal</i> , 2013 , 27, 813.14	0.9	
1	Investigation of the Therapeutic Potential of New Antidiabetic Compounds Using Islet-on-a-Chip Microfluidic Model. <i>Biosensors</i> , 2022 , 12, 302	5.9	