Agnieszka Dobrzyn

List of Publications by Year
in descending order

81 papers	4,219 citations	109264 35 h-index	110317 64 g-index
91 all docs	91 docs citations	91 times ranked	5541 citing authors

#	Article	IF	Citations
1	Stearoyl-CoA desaturase 1 deficiency increases fatty acid oxidation by activating AMP-activated protein kinase in liver. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6409-6414.	3.3	356
2	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. Journal of Biological Chemistry, 2004, 279, 25164-25171.	1.6	255
3	Mitochondria and Reactive Oxygen Species in Aging and Age-Related Diseases. International Review of Cell and Molecular Biology, 2018, 340, 209-344.	1.6	208
4	Stearoyl-CoA Desaturase-1 Mediates the Pro-lipogenic Effects of Dietary Saturated Fat. Journal of Biological Chemistry, 2007, 282, 2483-2493.	1.6	191
5	Stearoyl-CoA desaturase 1 deficiency elevates insulin-signaling components and down-regulates protein-tyrosine phosphatase 1B in muscle. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11110-11115.	3.3	168
6	Interaction of Mitochondria with the Endoplasmic Reticulum and Plasma Membrane in Calcium Homeostasis, Lipid Trafficking and Mitochondrial Structure. International Journal of Molecular Sciences, 2017, 18, 1576.	1.8	164
7	Stearoyl-CoA desaturase as a new drug target for obesity treatment. Obesity Reviews, 2005, 6, 169-174.	3.1	148
8	Mitochondria-associated membranes in aging and senescence: structure, function, and dynamics. Cell Death and Disease, 2018, 9, 332.	2.7	140
9	The role of stearoyl-CoA desaturase in the control of metabolism. Prostaglandins Leukotrienes and Essential Fatty Acids, 2005, 73, 35-41.	1.0	135
10	Stearoyl-CoA desaturase-1 deficiency reduces ceramide synthesis by downregulating serine palmitoyltransferase and increasing Î²-oxidation in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E599-E607.	1.8	134
11	Stearoyl-CoA desaturase-2 gene expression is required for lipid synthesis during early skin and liver development. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12501-12506.	3.3	125
12	Regulation of stearoyl-CoA desaturase expression. Lipids, 2004, 39, 1061-1065.	0.7	114
13	Lack of stearoyl-CoA desaturase 1 upregulates basal thermogenesis but causes hypothermia in a cold environment. Journal of Lipid Research, 2004, 45, 1674-1682.	2.0	110
14	Reduced Adiposity and Liver Steatosis by Stearoyl-CoA Desaturase Deficiency Are Independent of Peroxisome Proliferator-activated Receptor-Î±. Journal of Biological Chemistry, 2004, 279, 35017-35024.	1.6	108
15	The Role of Stearoyl-CoA Desaturase in Body Weight Regulation. Trends in Cardiovascular Medicine, 2004, 14, 77-81.	2.3	105
16	Stearoyl-CoA desaturase-1 deficiency attenuates obesity and insulin resistance in leptin-resistant obese mice. Biochemical and Biophysical Research Communications, 2009, 380, 818-822.	1.0	98
17	Ceramides and sphingomyelins in skeletal muscles of the rat: content and composition. Effect of prolonged exercise. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E277-E285.	1.8	88
18	Islet Î²-cell failure in type 2 diabetes â€“ Within the network of toxic lipids. Biochemical and Biophysical Research Communications, 2015, 460, 491-496.	1.0	79

#	Article	IF	Citations
19	Stearoyl-CoA desaturase 1 deficiency increases insulin signaling and glycogen accumulation in brown adipose tissue. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E381-E387.	1.8	72
20	Exercise and training effects on ceramide metabolism in human skeletal muscle. Experimental Physiology, 2004, 89, 119-127.	0.9	70
21	Stearoyl-CoA desaturase and insulin signaling â€" What is the molecular switch?. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1189-1194.	0.5	68
22	Isolation and characterization of unsaturated fatty acids as natural ligands for the retinoid-X receptor. Archives of Biochemistry and Biophysics, 2003, 420, 185-193.	1.4	67
23	Statin Therapy and New-onset Diabetes: Molecular Mechanisms and Clinical Relevance. Current Pharmaceutical Design, 2013, 19, 4904-4912.	0.9	62
24	Loss of stearoyl-CoA desaturase 1 inhibits fatty acid oxidation and increases glucose utilization in the heart. American Journal of Physiology - Endocrinology and Metabolism, 2008, 294, E357-E364.	1.8	61
25	CB1 Cannabinoid Receptors Couple to Focal Adhesion Kinase to Control Insulin Release. Journal of Biological Chemistry, 2013, 288, 32685-32699.	1.6	61
26	Inhibition of SCD1 impairs palmitate-derived autophagy at the step of autophagosome-lysosome fusion in pancreatic Î²-cells. Journal of Lipid Research, 2015, 56, 1901-1911.	2.0	54
27	The DNA Repair Protein OGG1 Protects Against Obesity by Altering Mitochondrial Energetics in White Adipose Tissue. Scientific Reports, 2018, 8, 14886.	1.6	53
28	Loss of stearoyl-CoA desaturase 1 rescues cardiac function in obese leptin-deficient mice. Journal of Lipid Research, 2010, 51, 2202-2210.	2.0	51
29	Stearoyl-CoA Desaturase 1 Deficiency Increases CTP:Choline Cytidylyltransferase Translocation into the Membrane and Enhances Phosphatidylcholine Synthesis in Liver. Journal of Biological Chemistry, 2005, 280, 23356-23362.	1.6	48
30	Expression of lipogenic genes is upregulated in the heart with exercise training-induced but not pressure overload-induced left ventricular hypertrophy. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E1348-E1358.	1.8	47
31	Fetal endocannabinoids orchestrate the organization of pancreatic islet microarchitecture. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6185-94.	3.3	44
32	Metabolic reprogramming of the heart through stearoyl-CoA desaturase. Progress in Lipid Research, 2015, 57, 1-12.	5.3	42
33	The role of rapid lipogenesis in insulin secretion: Insulin secretagogues acutely alter lipid composition of INS-1 832/13 cells. Archives of Biochemistry and Biophysics, 2008, 470, 153-162.	1.4	40
34	Endurance training-induced accumulation of muscle triglycerides is coupled to upregulation of stearoyl-CoA desaturase 1. Journal of Applied Physiology, 2010, 109, 1653-1661.	1.2	37
35	Adipose- and muscle-derived Wnts trigger pancreatic Î²-cell adaptation to systemic insulin resistance. Scientific Reports, 2016, 6, 31553.	1.6	37
36	Stearoyl-CoA desaturase regulates inflammatory gene expression by changing DNA methylation level in 3T3 adipocytes. International Journal of Biochemistry and Cell Biology, 2014, 55, 40-50.	1.2	34

#	Article	IF	Citations
37	SCD1 regulates the AMPK/SIRT1 pathway and histone acetylation through changes in adenine nucleotide metabolism in skeletal muscle. Journal of Cellular Physiology, 2020, 235, 1129-1140.	2.0	32
38	Effect of Acute Exercise on the Content of Free Sphinganine and Sphingosine in Different Skeletal Muscle Types of the Rat. Hormone and Metabolic Research, 2002, 34, 523-529.	0.7	29
39	Two Î”9-stearic acid desaturases are required for Aspergillus nidulans growth and development. Fungal Genetics and Biology, 2004, 41, 501-509.	0.9	29
40	8-oxoguanine DNA glycosylase (OGG1) deficiency elicits coordinated changes in lipid and mitochondrial metabolism in muscle. PLoS ONE, 2017, 12, e0181687.	1.1	28
41	Polyunsaturated fatty acids do not activate AMP-activated protein kinase in mouse tissues. Biochemical and Biophysical Research Communications, 2005, 332, 892-896.	1.0	27
42	The Sphingomyelinâ€Signaling Pathway in Skeletal Muscles and Its Role in Regulation of Glucose Uptake. Annals of the New York Academy of Sciences, 2002, 967, 236-248.	1.8	26
43	Stearoylâ€CoA desaturase: A novel control point of lipid metabolism and insulin sensitivity. European Journal of Lipid Science and Technology, 2008, 110, 93-100.	1.0	22
44	High-Throughput Approaches onto Uncover (Epi)Genomic Architecture of Type 2 Diabetes. Genes, 2018, 9, 374.	1.0	22
45	Effect of acute exercise and training on metabolism of ceramide in the heart muscle of the rat. Acta Physiologica Scandinavica, 2004, 181, 313-319.	2.3	20
46	Impaired dynamics of the late endosome/lysosome compartment in human Niemannâ€“Pick type C skin fibroblasts carrying mutation in NPC1 gene. Molecular BioSystems, 2012, 8, 1197.	2.9	20
47	Bionic Organs: Shear Forces Reduce Pancreatic Islet and Mammalian Cell Viability during the Process of 3D Bioprinting. Micromachines, 2021, 12, 304.	1.4	19
48	Differential regulation of serum microRNA expression by HNF1Î² and HNF1Î± transcription factors. Diabetologia, 2016, 59, 1463-1473.	2.9	18
49	Stearoyl-CoA desaturase: a new therapeutic target of liver steatosis. Drug Development Research, 2006, 67, 643-650.	1.4	17
50	Increased availability of endogenous and dietary oleic acid contributes to the upregulation of cardiac fatty acid oxidation. Mitochondrion, 2012, 12, 132-137.	1.6	16
51	Typing of Histoplasma capsulatum strains by fatty acid profile analysis. Journal of Medical Microbiology, 2007, 56, 788-797.	0.7	16
52	Effect of dietary restriction on metabolic, anatomic and molecular traits in mice depends on the initial level of basal metabolic rate (BMR). Journal of Experimental Biology, 2012, 215, 3191-9.	0.8	15
53	Fat and Sugarâ€”A Dangerous Duet. A Comparative Review on Metabolic Remodeling in Rodent Models of Nonalcoholic Fatty Liver Disease. Nutrients, 2019, 11, 2871.	1.7	14
54	Concentration and Composition of Free Ceramides in Human Plasma. Hormone and Metabolic Research, 2002, 34, 466-468.	0.7	13

#	Article	IF	Citations
55	A Novel Role for the DNA Repair Enzyme 8-Oxoguanine DNA Glycosylase in Adipogenesis. International Journal of Molecular Sciences, 2021, 22, 1152.	1.8	13
56	Monounsaturated fatty acids are required for membrane translocation of protein kinase C-thetainduced by lipid overload in skeletal muscle. Molecular Membrane Biology, 2012, 29, 309-320.	2.0	12
57	Combinations of regenerative medicine and Lab-on-a-chip systems: New hope to restoring the proper function of pancreatic islets in diabetes. Biosensors and Bioelectronics, 2020, 167, 112451.	5.3	11
58	Impact of Porcine Pancreas Decellularization Conditions on the Quality of Obtained dECM. International Journal of Molecular Sciences, 2021, 22, 7005.	1.8	11
59	Novel substituted heteroaromatic compounds as inhibitors of stearoyl-CoA desaturase. Expert Opinion on Therapeutic Patents, 2010, 20, 849-853.	2.4	10
60	Oleic acid increases the transcriptional activity of FoxO1 by promoting its nuclear translocation and Î²-catenin binding in pancreatic Î²-cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2753-2764.	1.8	9
61	Stearoyl-CoA Desaturase 1 Activity Determines the Maintenance of DNMT1-Mediated DNA Methylation Patterns in Pancreatic Î²-Cells. International Journal of Molecular Sciences, 2020, 21, 6844.	1.8	8
62	Ceramides, Sphinganine, Sphingosine and Acid Sphingomyelinases in the Human Umbilical Cord Blood. Hormone and Metabolic Research, 2005, 37, 433-437.	0.7	7
63	Neutral Storage Lipids of Histoplasma capsulatum: Effect of Culture Age. Current Microbiology, 2008, 56, 110-114.	1.0	7
64	Ferrous, But Not Ferric, Iron Maintains Homeostasis in Histoplasma capsulatum Triacylglycerides. Current Microbiology, 2008, 57, 153-157.	1.0	7
65	Omegaâ€3 Fatty Acids Do Not Protect Against Arrhythmias in Acute Nonreperfused Myocardial Infarction Despite Some Antiarrhythmic Effects. Journal of Cellular Biochemistry, 2016, 117, 2570-2582.	1.2	7
66	Knockdown of pyruvate carboxylase or fatty acid synthase lowers numerous lipids and glucose-stimulated insulin release in insulinoma cells. Archives of Biochemistry and Biophysics, 2013, 532, 23-31.	1.4	6
67	Maternal Transmission of Human OGG1 Protects Mice Against Genetically- and Diet-Induced Obesity Through Increased Tissue Mitochondrial Content. Frontiers in Cell and Developmental Biology, 2021, 9, 718962.	1.8	5
68	Stearoyl-CoA desaturase: A therapeutic target of insulin resistance and diabetes. Drug Discovery Today: Therapeutic Strategies, 2005, 2, 125-128.	0.5	4
69	Inhibition of stearoyl-CoA desaturase by cyclic amine derivatives. Expert Opinion on Therapeutic Patents, 2008, 18, 457-460.	2.4	3
70	Na dobre i na zÅ‚e Ã¢Â€Â“ czyli rola oddziaÅ‚ywania trzustki, Å›rÃ³dbÅ‚onka i tkanki tÅ‚uszczowej w regulacji funkcjonowania komÃ³rek ÃŽË› i rozwoju cukrzycy typu 2 zwiÄ…zanej z otyÅ‚oÅ›ciÄ…. Postepy Biochemii, 2018, 64, 166-174.	0.5	3
71	Investigation of the Therapeutic Potential of New Antidiabetic Compounds Using Islet-on-a-Chip Microfluidic Model. Biosensors, 2022, 12, 302.	2.3	3
72	Sphingolipid mediators of cell signaling and metabolism. , 2020, , 385-411.		1

#	Article	IF	Citations
73	Stearoyl CoA desaturaseâ€1 mediates the proâ€lipogenic effects of dietary saturated fat. FASEB Journal, 2007, 21, A109.	0.2	1
74	Epigenetyczna regulacja ekspresji genÃ³w Ã¢Â€Â" nowy mechanizm Å‚Ä…czÄ…cy otyÅ‚oÅ›Ä‡ z rozwojem cukrzycy typu 2. Postepy Biochemii, 2018, 64, 157-165.	0.5	1
75	Elevated level of lysophosphatidic acid among patients with HNF1B mutations and its role in RCAD syndrome: a multiomic study. Metabolomics, 2022, 18, 15.	1.4	1
76	SCD1 deficiency decreases hepatic lipogenesis and improves insulin sensitivity in obese mice in the presence of leptin. FASEB Journal, 2008, 22, 643.5.	0.2	0
77	Stearoyl-CoA Desaturase in the Control of Heart Metabolism. , 2013, , 85-101.		0
78	Stearoylâ€CoA desaturase affects the level of global DNA methylation in 3T3â€L1 adipocytes. FASEB Journal, 2013, 27, 813.14.	0.2	0
79	â€œIslets therapeutic checkpoint: Inhibition of stearoylâ€CoA desaturase impairs lipid droplet morphology and metabolism during palmitotoxicity of pancreatic Î²â€cellsâ€· FASEB Journal, 2020, 34, 1-1.	0.2	0
80	Stearoylâ€CoA desaturase 1 determines pancreatic Î²â€cell fate through regulation of DNA methylation pattern. FASEB Journal, 2020, 34, 1-1.	0.2	0
81	Lab-on-a-Chip System for Developing and Fluorescence Imaging a Three-Dimensional Model of Pancreatic Islets Under Flow Conditions. ECS Meeting Abstracts, 2020, MA2020-01, 1984-1984.	0.0	0