

Douglas G Mashek

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

6,534
citations

87723

38
h-index

85405

71
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85
all docs

85
docs citations

85
times ranked

9749
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,742 1,430	4.3	10
2	The role of lipid droplets in metabolic disease in rodents and humans. <i>Journal of Clinical Investigation</i> , 2011, 121, 2102-2110.	3.9	526
3	Adipose triglyceride lipase is a major hepatic lipase that regulates triacylglycerol turnover and fatty acid signaling and partitioning. <i>Hepatology</i> , 2011, 53, 116-126.	3.6	283
4	ATGL Promotes Autophagy/Lipophagy via SIRT1 to Control Hepatic Lipid Droplet Catabolism. <i>Cell Reports</i> , 2017, 19, 1-9.	2.9	255
5	Long-Chain Acyl-Coa Synthetases And Fatty Acid Channeling. <i>Future Lipidology</i> , 2007, 2, 465-476.	0.5	231
6	Mammalian Triacylglycerol Metabolism: Synthesis, Lipolysis, and Signaling. <i>Chemical Reviews</i> , 2011, 111, 6359-6386.	23.0	218
7	Time-Restricted Eating Effects on Body Composition and Metabolic Measures in Humans who are Overweight: A Feasibility Study. <i>Obesity</i> , 2020, 28, 860-869.	1.5	190
8	Reducing Dry Period Length to Simplify Feeding Transition Cows: Milk Production, Energy Balance, and Metabolic Profiles. <i>Journal of Dairy Science</i> , 2005, 88, 1004-1014.	1.4	176
9	Breaking fat: The regulation and mechanisms of lipophagy. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 1178-1187.	1.2	176
10	Rat long-chain acyl-CoA synthetase mRNA, protein, and activity vary in tissue distribution and in response to diet. <i>Journal of Lipid Research</i> , 2006, 47, 2004-2010.	2.0	160
11	ATGL-Catalyzed Lipolysis Regulates SIRT1 to Control PGC-1 α /PPAR- α Signaling. <i>Diabetes</i> , 2015, 64, 418-426.	0.3	153
12	Revised nomenclature for the mammalian long-chain acyl-CoA synthetase gene family. <i>Journal of Lipid Research</i> , 2004, 45, 1958-1961.	2.0	142
13	Palmitoleate Induces Hepatic Steatosis but Suppresses Liver Inflammatory Response in Mice. <i>PLoS ONE</i> , 2012, 7, e39286.	1.1	125
14	Cellular fatty acid uptake: the contribution of metabolism. <i>Current Opinion in Lipidology</i> , 2006, 17, 274-278.	1.2	118
15	Hepatic Fatty Acid Trafficking: Multiple Forks in the Road. <i>Advances in Nutrition</i> , 2013, 4, 697-710.	2.9	115
16	Hepatic lipid droplet biology: Getting to the root of fatty liver. <i>Hepatology</i> , 2015, 62, 964-967.	3.6	111
17	Rat Long Chain Acyl-CoA Synthetase 5 Increases Fatty Acid Uptake and Partitioning to Cellular Triacylglycerol in McArdle-RH7777 Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 945-950.	1.6	107
18	Hepatic lipid droplets: A balancing act between energy storage and metabolic dysfunction in NAFLD. <i>Molecular Metabolism</i> , 2021, 50, 101115.	3.0	106

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19	Regulation of Glucose Metabolism – A Perspective From Cell Bioprocessing. Trends in Biotechnology, 2016, 34, 638-651.	4.9	103
20	Hepatic long-chain acyl-CoA synthetase 5 mediates fatty acid channeling between anabolic and catabolic pathways. Journal of Lipid Research, 2010, 51, 3270-3280.	2.0	102
21	Overexpression of Rat Long Chain Acyl-CoA Synthetase 1 Alters Fatty Acid Metabolism in Rat Primary Hepatocytes. Journal of Biological Chemistry, 2006, 281, 37246-37255.	1.6	98
22	Lipid Droplet-Derived Monounsaturated Fatty Acids Traffic via PLIN5 to Allosterically Activate SIRT1. Molecular Cell, 2020, 77, 810-824.e8.	4.5	98
23	Suppression of Long Chain Acyl-CoA Synthetase 3 Decreases Hepatic de Novo Fatty Acid Synthesis through Decreased Transcriptional Activity. Journal of Biological Chemistry, 2009, 284, 30474-30483.	1.6	85
24	Hepatic triacylglycerol hydrolysis regulates peroxisome proliferator-activated receptor β activity. Journal of Lipid Research, 2009, 50, 1621-1629.	2.0	81
25	Cyclin D1 inhibits hepatic lipogenesis via repression of carbohydrate response element binding protein and hepatocyte nuclear factor 4β . Cell Cycle, 2012, 11, 2681-2690.	1.3	74
26	Acyl CoA synthetase 5 (ACSL5) ablation in mice increases energy expenditure and insulin sensitivity and delays fat absorption. Molecular Metabolism, 2016, 5, 210-220.	3.0	73
27	Cloning and functional characterization of a novel mitochondrial N-ethylmaleimide-sensitive glycerol-3-phosphate acyltransferase (GPAT2). Archives of Biochemistry and Biophysics, 2007, 465, 347-358.	1.4	71
28	Lipocalin 2 is a selective modulator of peroxisome proliferator-activated receptor β activation and function in lipid homeostasis and energy expenditure. FASEB Journal, 2011, 25, 754-764.	0.2	70
29	Mitochondrial PE potentiates respiratory enzymes to amplify skeletal muscle aerobic capacity. Science Advances, 2019, 5, eaax8352.	4.7	66
30	Lipophagy-derived fatty acids undergo extracellular efflux via lysosomal exocytosis. Autophagy, 2021, 17, 690-705.	4.3	64
31	Quantitative analysis of the murine lipid droplet-associated proteome during diet-induced hepatic steatosis. Journal of Lipid Research, 2015, 56, 2260-2272.	2.0	62
32	Lipocalin 2 Regulates Brown Fat Activation via a Nonadrenergic Activation Mechanism. Journal of Biological Chemistry, 2014, 289, 22063-22077.	1.6	57
33	Acyl-CoA Thioesterase 1 (ACOT1) Regulates PPAR β to Couple Fatty Acid Flux With Oxidative Capacity During Fasting. Diabetes, 2017, 66, 2112-2123.	0.3	56
34	Targeted Overexpression of Inducible 6-Phosphofructo-2-kinase in Adipose Tissue Increases Fat Deposition but Protects against Diet-induced Insulin Resistance and Inflammatory Responses. Journal of Biological Chemistry, 2012, 287, 21492-21500.	1.6	54
35	Integrated Regulation of Hepatic Lipid and Glucose Metabolism by Adipose Triacylglycerol Lipase and FoxO Proteins. Cell Reports, 2016, 15, 349-359.	2.9	54
36	Hepatic ATGL knockdown uncouples glucose intolerance from liver TAG accumulation. FASEB Journal, 2013, 27, 313-321.	0.2	45

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37	Lysophosphatidic Acid Activates Peroxisome Proliferator Activated Receptor- β in CHO Cells That Over-Express Glycerol 3-Phosphate Acyltransferase-1. PLoS ONE, 2011, 6, e18932.	1.1	41
38	AMP-Activated Protein Kinase α 1 Protects Against Diet-Induced Insulin Resistance and Obesity. Diabetes, 2012, 61, 3114-3125.	0.3	39
39	Hepatic ATGL mediates PPAR- α signaling and fatty acid channeling through an L-FABP independent mechanism. Journal of Lipid Research, 2014, 55, 808-815.	2.0	39
40	Hepatic PLIN5 signals via SIRT1 to promote autophagy and prevent inflammation during fasting. Journal of Lipid Research, 2020, 61, 338-350.	2.0	35
41	Unconventional Secretion of Adipocyte Fatty Acid Binding Protein 4 Is Mediated By Autophagic Proteins in a Sirtuin-1-Dependent Manner. Diabetes, 2019, 68, 1767-1777.	0.3	32
42	Overlapping Roles of the Glucose-Responsive Genes, S14 and S14R, in Hepatic Lipogenesis. Endocrinology, 2010, 151, 2071-2077.	1.4	30
43	Toll-like receptor 4 signaling is required for induction of gluconeogenic gene expression by palmitate in human hepatic carcinoma cells. Journal of Nutritional Biochemistry, 2013, 24, 1499-1507.	1.9	25
44	Training status diverges muscle diacylglycerol accumulation during free fatty acid elevation. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E124-E131.	1.8	24
45	Effect of acute physiological free fatty acid elevation in the context of hyperinsulinemia on fiber type-specific IMCL accumulation. Journal of Applied Physiology, 2017, 123, 71-78.	1.2	24
46	Regulation of Metabolic Homeostasis in Cell Culture Bioprocesses. Trends in Biotechnology, 2020, 38, 1113-1127.	4.9	24
47	Perilipins at a glance. Journal of Cell Science, 2022, 135, .	1.2	24
48	Lipid droplet-associated kinase STK25 regulates peroxisomal activity and metabolic stress response in steatotic liver. Journal of Lipid Research, 2020, 61, 178-191.	2.0	23
49	Cyclin D1 represses peroxisome proliferator-activated receptor alpha and inhibits fatty acid oxidation. Oncotarget, 2016, 7, 47674-47686.	0.8	23
50	MUFAs. Advances in Nutrition, 2015, 6, 276-277.	2.9	21
51	Evidence for a Novel Regulatory Interaction Involving Cyclin D1, Lipid Droplets, Lipolysis, and Cell Cycle Progression in Hepatocytes. Hepatology Communications, 2019, 3, 406-422.	2.0	18
52	Time-Restricted Eating Improves Quality of Life Measures in Overweight Humans. Nutrients, 2021, 13, 1430.	1.7	18
53	Microalgal swimming signatures and neutral lipids production across growth phases. Biotechnology and Bioengineering, 2020, 117, 970-980.	1.7	17
54	Muscle Lipid Droplets: Cellular Signaling to Exercise Physiology and Beyond. Trends in Endocrinology and Metabolism, 2020, 31, 928-938.	3.1	15

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55	Caloric Restriction Prevents Carcinogen-Initiated Liver Tumorigenesis in Mice. <i>Cancer Prevention Research</i> , 2017, 10, 660-670.	0.7	14
56	Algal swimming velocities signal fatty acid accumulation. <i>Biotechnology and Bioengineering</i> , 2013, 110, 143-152.	1.7	12
57	New lipid-producing, cold-tolerant yellow-green alga isolated from the rocky mountains of colorado. <i>Biotechnology Progress</i> , 2013, 29, 853-861.	1.3	12
58	Time-Restricted Eating Alters Food Intake Patterns, as Prospectively Documented by a Smartphone Application. <i>Nutrients</i> , 2020, 12, 3396.	1.7	11
59	Time-Restricted Eating for 12 Weeks Does Not Adversely Alter Bone Turnover in Overweight Adults. <i>Nutrients</i> , 2021, 13, 1155.	1.7	11
60	Regulation and role of glycolysis in skeletal muscle energy metabolism. <i>Autophagy</i> , 2022, 18, 1078-1089.	4.3	10
61	Phosphatase PHLPP2 regulates the cellular response to metabolic stress through AMPK. <i>Cell Death and Disease</i> , 2021, 12, 904.	2.7	9
62	The Underpinnings of PNPLA3-Mediated Fatty Liver Emerge. <i>Hepatology</i> , 2020, 71, 375-377.	3.6	8
63	Hepatic lysosomal acid lipase overexpression worsens hepatic inflammation in mice fed a Western diet. <i>Journal of Lipid Research</i> , 2021, 62, 100133.	2.0	8
64	Fluid motion mediates biochemical composition and physiological aspects in the green alga <i>Dunaliella primolecta</i> Butcher. <i>Limnology & Oceanography Fluids & Environments</i> , 2013, 3, 74-88.	1.7	6
65	Serum TAG Analysis Differentiates Between Genetic and Obesity-Associated NAFLD. <i>Diabetes</i> , 2014, 63, 42-44.	0.3	6
66	DXA-Determined Regional Adiposity Relates to Insulin Resistance in a Young Adult Population with Overweight and Obesity. <i>Journal of Clinical Densitometry</i> , 2019, 22, 287-292.	0.5	6
67	Sizing lipid droplets from adult and geriatric mouse liver tissue via nanoparticle tracking analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3629-3638.	1.9	4
68	Chromatin accessibility profiling identifies evolutionary conserved loci in activated human satellite cells. <i>Stem Cell Research</i> , 2021, 55, 102496.	0.3	4
69	The lipid droplet as a signaling node. , 2020, , 157-172.		2
70	Isolated and combined impact of dietary olive oil and exercise on markers of health and energy metabolism in female mice. <i>Journal of Nutritional Biochemistry</i> , 2022, 107, 109040.	1.9	2
71	Simple Targeted Assays for Metabolic Pathways and Signaling: A Powerful Tool for Targeted Proteomics. <i>Analytical Chemistry</i> , 2020, 92, 13672-13676.	3.2	1
72	Hepatic perilipin 5 promotes lipophagy and alters lipid droplet and mitochondrial dynamics. <i>FASEB Journal</i> , 2019, 33, 490.19.	0.2	1

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73	The microenvironment matters: the secret life of intramuscular lipid droplets. <i>Journal of Physiology</i> , 2020, 598, 1117-1118.	1.3	0
74	Overexpression of rat long chain acyl-CoA synthetase 1 alters fatty acid metabolism in rat primary hepatocytes. <i>FASEB Journal</i> , 2006, 20, A86.	0.2	0
75	Fatty acids derived from triacylglycerol hydrolysis are a significant source of ligands for peroxisome proliferator-activated receptor α (PPAR α) in rat primary hepatocytes. <i>FASEB Journal</i> , 2008, 22, 807.19.	0.2	0
76	Long-chain acyl-CoA synthetase 3 (ACSL3) mediates transcriptional control of hepatic lipogenesis. <i>FASEB Journal</i> , 2009, 23, 522.9.	0.2	0
77	Cyclin D1 regulates hepatic lipid metabolism. <i>FASEB Journal</i> , 2010, 24, 503.2.	0.2	0
78	Hepatic Adipose Triglyceride Lipase (ATGL) mediates hepatic triglyceride turnover, fatty acid channeling and PPAR α activity. <i>FASEB Journal</i> , 2010, 24, 694.12.	0.2	0
79	Hepatic long-chain acyl-CoA synthetase 5 (ACSL5) partitions fatty acids between anabolic and catabolic pathways. <i>FASEB Journal</i> , 2010, 24, 694.2.	0.2	0
80	Mechanism of ATGL mediated changes in hepatic energy metabolism: role of LFABP. <i>FASEB Journal</i> , 2013, 27, 822.12.	0.2	0
81	Role of ACOT1 in hepatic lipid trafficking (821.6). <i>FASEB Journal</i> , 2014, 28, 821.6.	0.2	0
82	ATGL-catalyzed lipolysis regulates SIRT1 to control PGC α /PPAR α signaling. <i>FASEB Journal</i> , 2015, 29, 885.24.	0.2	0