

# J Mark Brown

## List of Publications by Year in descending order

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102  
papers

10,819  
citations

61857

43  
h-index

42291

92  
g-index

114  
all docs

114  
docs citations

114  
times ranked

13995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intestinal microbiota metabolism of L-carnitine, a nutrient in red meat, promotes atherosclerosis. <i>Nature Medicine</i> , 2013, 19, 576-585.	15.2	3,355
2	Gut Microbial Metabolite TMAO Enhances Platelet Hyperreactivity and Thrombosis Risk. <i>Cell</i> , 2016, 165, 111-124.	13.5	1,358
3	Development of a gut microbe-targeted nonlethal therapeutic to inhibit thrombosis potential. <i>Nature Medicine</i> , 2018, 24, 1407-1417.	15.2	383
4	The Gut Microbial Endocrine Organ: Bacterially Derived Signals Driving Cardiometabolic Diseases. <i>Annual Review of Medicine</i> , 2015, 66, 343-359.	5.0	350
5	The TMAO-Generating Enzyme Flavin Monooxygenase 3 Is a Central Regulator of Cholesterol Balance. <i>Cell Reports</i> , 2015, 10, 326-338.	2.9	307
6	Microbial modulation of cardiovascular disease. <i>Nature Reviews Microbiology</i> , 2018, 16, 171-181.	13.6	301
7	Flavin containing monooxygenase 3 exerts broad effects on glucose and lipid metabolism and atherosclerosis. <i>Journal of Lipid Research</i> , 2015, 56, 22-37.	2.0	254
8	The TMAO-Producing Enzyme Flavin-Containing Monooxygenase 3 Regulates Obesity and the Beiging of White Adipose Tissue. <i>Cell Reports</i> , 2017, 19, 2451-2461.	2.9	194
9	Isomer-specific regulation of metabolism and PPAR $\beta$ signaling by CLA in human preadipocytes. <i>Journal of Lipid Research</i> , 2003, 44, 1287-1300.	2.0	192
10	Cancer Stem Cell-Specific Scavenger Receptor CD36 Drives Glioblastoma Progression. <i>Stem Cells</i> , 2014, 32, 1746-1758.	1.4	182
11	Inhibition of Stearoyl-Coenzyme A Desaturase 1 Dissociates Insulin Resistance and Obesity From Atherosclerosis. <i>Circulation</i> , 2008, 118, 1467-1475.	1.6	148
12	Conjugated Linoleic Acid Induces Human Adipocyte Delipidation. <i>Journal of Biological Chemistry</i> , 2004, 279, 26735-26747.	1.6	142
13	Mammalian alpha beta hydrolase domain (ABHD) proteins: Lipid metabolizing enzymes at the interface of cell signaling and energy metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 792-802.	1.2	138
14	CGI-58 knockdown sequesters diacylglycerols in lipid droplets/ER-preventing diacylglycerol-mediated hepatic insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1869-1874.	3.3	137
15	Conjugated Linoleic Acid in Humans: Regulation of Adiposity and Insulin Sensitivity. <i>Journal of Nutrition</i> , 2003, 133, 3041-3046.	1.3	135
16	EPAS1 is a critical mTORC1-S6K1 effector that influences adiposity in mice. <i>Nature</i> , 2017, 542, 357-361.	13.7	130
17	CGI-58 knockdown in mice causes hepatic steatosis but prevents diet-induced obesity and glucose intolerance. <i>Journal of Lipid Research</i> , 2010, 51, 3306-3315.	2.0	128
18	$\beta$ -Hydrolase Domain-6-Accessible Monoacylglycerol Controls Glucose-Stimulated Insulin Secretion. <i>Cell Metabolism</i> , 2014, 19, 993-1007.	7.2	125

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19	Glioma Stem Cell-Specific Superenhancer Promotes Polyunsaturated Fatty-Acid Synthesis to Support EGFR Signaling. <i>Cancer Discovery</i> , 2019, 9, 1248-1267.	7.7	120
20	The Serine Hydrolase ABHD6 Is a Critical Regulator of the Metabolic Syndrome. <i>Cell Reports</i> , 2013, 5, 508-520.	2.9	108
21	Biliary Sterol Secretion Is Not Required for Macrophage Reverse Cholesterol Transport. <i>Cell Metabolism</i> , 2010, 12, 96-102.	7.2	105
22	Targeted Depletion of Hepatic ACAT2-driven Cholesterol Esterification Reveals a Non-biliary Route for Fecal Neutral Sterol Loss. <i>Journal of Biological Chemistry</i> , 2008, 283, 10522-10534.	1.6	99
23	Modulation of the gut microbiota impacts nonalcoholic fatty liver disease: a potential role for bile acids. <i>Journal of Lipid Research</i> , 2017, 58, 1399-1416.	2.0	94
24	Obesity-linked suppression of membrane-bound O-acyltransferase 7 (MBOAT7) drives non-alcoholic fatty liver disease. <i>ELife</i> , 2019, 8, .	2.8	93
25	Stearoyl-coenzyme A desaturase 1 inhibition and the metabolic syndrome: considerations for future drug discovery. <i>Current Opinion in Lipidology</i> , 2010, 21, 192-197.	1.2	89
26	Targeting of microbe-derived metabolites to improve human health: The next frontier for drug discovery. <i>Journal of Biological Chemistry</i> , 2017, 292, 8560-8568.	1.6	88
27	$\Delta^5$ Fatty Acid Desaturase <i>FADS1</i> Impacts Metabolic Disease by Balancing Proinflammatory and Proresolving Lipid Mediators. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 218-231.	1.1	81
28	Liver-Specific Inhibition of Acyl-Coenzyme A:Cholesterol Acyltransferase 2 With Antisense Oligonucleotides Limits Atherosclerosis Development in Apolipoprotein B100-Only Low-Density Lipoprotein Receptor <sup>-/-</sup> Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 1814-1820.	1.1	77
29	Scavenger Receptor Class B Type I Is a Plasma Membrane Cholesterol Sensor. <i>Circulation Research</i> , 2013, 112, 140-151.	2.0	72
30	Biliary and nonbiliary contributions to reverse cholesterol transport. <i>Current Opinion in Lipidology</i> , 2012, 23, 85-90.	1.2	69
31	Metaorganismal nutrient metabolism as a basis of cardiovascular disease. <i>Current Opinion in Lipidology</i> , 2014, 25, 48-53.	1.2	68
32	Bile acids profile, histopathological indices and genetic variants for non-alcoholic fatty liver disease progression. <i>Metabolism: Clinical and Experimental</i> , 2021, 116, 154457.	1.5	62
33	$\Delta^2$ -Hydrolase Domain 6 Deletion Induces Adipose Browning and Prevents Obesity and Type 2 Diabetes. <i>Cell Reports</i> , 2016, 14, 2872-2888.	2.9	61
34	Altered lipid metabolism marks glioblastoma stem and non-stem cells in separate tumor niches. <i>Acta Neuropathologica Communications</i> , 2021, 9, 101.	2.4	60
35	Combined Therapy of Dietary Fish Oil and Stearoyl-CoA Desaturase 1 Inhibition Prevents the Metabolic Syndrome and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 24-30.	1.1	59
36	Hypophagia and metabolic adaptations in mice with defective ATGL-mediated lipolysis cause resistance to HFD-induced obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13850-13855.	3.3	58

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37	An in vivo multiplexed small-molecule screening platform. <i>Nature Methods</i> , 2016, 13, 883-889.	9.0	57
38	A new model of reverse cholesterol transport: enTICEing strategies to stimulate intestinal cholesterol excretion. <i>Trends in Pharmacological Sciences</i> , 2015, 36, 440-451.	4.0	55
39	Emerging roles of flavin monooxygenase 3 in cholesterol metabolism and atherosclerosis. <i>Current Opinion in Lipidology</i> , 2015, 26, 426-431.	1.2	52
40	Opposing Gatekeepers of Apical Sterol Transport: Niemann-Pick C1-Like 1 (NPC1L1) and ATP-Binding Cassette Transporters G5 and G8 (ABCG5/ABCG8). <i>Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry</i> , 2009, 9, 18-29.	0.5	50
41	Small molecule inhibition of gut microbial choline trimethylamine lyase activity alters host cholesterol and bile acid metabolism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H1474-H1486.	1.5	48
42	CGI-58 facilitates the mobilization of cytoplasmic triglyceride for lipoprotein secretion in hepatoma cells. <i>Journal of Lipid Research</i> , 2007, 48, 2295-2305.	2.0	47
43	CGI-58/ABHD5-Derived Signaling Lipids Regulate Systemic Inflammation and Insulin Action. <i>Diabetes</i> , 2012, 61, 355-363.	0.3	46
44	NPC1L1 (Niemann-Pick C1-like 1) mediates sterol-specific unidirectional transport of non-esterified cholesterol in McArdle-RH7777 hepatoma cells. <i>Biochemical Journal</i> , 2007, 406, 273-283.	1.7	45
45	Effects of Lifestyle Intervention on Plasma Trimethylamine N-Oxide in Obese Adults. <i>Nutrients</i> , 2019, 11, 179.	1.7	42
46	Quantification of bile acids: a mass spectrometry platform for studying gut microbe connection to metabolic diseases. <i>Journal of Lipid Research</i> , 2020, 61, 159-177.	2.0	42
47	Cholesterol Esters (CE) Derived From Hepatic Sterol O-Acyltransferase 2 (SOAT2) Are Associated With More Atherosclerosis Than CE From Intestinal SOAT2. <i>Circulation Research</i> , 2014, 115, 826-833.	2.0	41
48	Genetic Deficiency of Flavin-Containing Monooxygenase 3 ( <i>Fmo3</i> ) Protects Against Thrombosis but Has Only a Minor Effect on Plasma Lipid Levels—Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 1045-1054.	1.1	41
49	Î±/Î² Hydrolase Domain-containing 6 (ABHD6) Degrades the Late Endosomal/Lysosomal Lipid Bis(monoacylglycero)phosphate. <i>Journal of Biological Chemistry</i> , 2015, 290, 29869-29881.	1.6	37
50	Regulation of Hepatic Triacylglycerol Metabolism by CGI-58 Does Not Require ATGL Co-activation. <i>Cell Reports</i> , 2016, 16, 939-949.	2.9	36
51	Loss of HDAC6 alters gut microbiota and worsens obesity. <i>FASEB Journal</i> , 2019, 33, 1098-1109.	0.2	36
52	Tissue-specific knockouts of ACAT2 reveal that intestinal depletion is sufficient to prevent diet-induced cholesterol accumulation in the liver and blood. <i>Journal of Lipid Research</i> , 2012, 53, 1144-1152.	2.0	35
53	Severe consequences of a high-lipid diet include hydrogen sulfide dysfunction and enhanced aggression in glioblastoma. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	34
54	Deregulation of the endocannabinoid system and therapeutic potential of ABHD6 blockade in the cuprizone model of demyelination. <i>Biochemical Pharmacology</i> , 2018, 157, 189-201.	2.0	33

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55	Intestinal SR-BI does not impact cholesterol absorption or transintestinal cholesterol efflux in mice. <i>Journal of Lipid Research</i> , 2013, 54, 1567-1577.	2.0	31
56	Akt3 inhibits adipogenesis and protects from diet-induced obesity via signaling pathway. <i>JCI Insight</i> , 2017, 2, .	2.3	31
57	Distinct roles for $\hat{1}\pm\hat{1}^2$ hydrolase domain 5 (ABHD5/CGI-58) and adipose triglyceride lipase (ATGL/PNPLA2) in lipid metabolism and signaling. <i>Adipocyte</i> , 2012, 1, 123-131.	1.3	29
58	The Gut Microbial Endocrine Organ in Type 2 Diabetes. <i>Endocrinology</i> , 2021, 162, .	1.4	29
59	Monounsaturated fatty acids and atherosclerosis: Opposing views from epidemiology and experimental animal models. <i>Current Atherosclerosis Reports</i> , 2007, 9, 494-500.	2.0	28
60	Deletion of CGI-58 or adipose triglyceride lipase differently affects macrophage function and atherosclerosis. <i>Journal of Lipid Research</i> , 2014, 55, 2562-2575.	2.0	27
61	Gut microbe-targeted choline trimethylamine lyase inhibition improves obesity via rewiring of host circadian rhythms. <i>ELife</i> , 2022, 11, .	2.8	27
62	The lipid droplet-associated protein perilipin 3 facilitates hepatitis C virus-driven hepatic steatosis. <i>Journal of Lipid Research</i> , 2017, 58, 420-432.	2.0	25
63	Postprandial gut microbiota-driven choline metabolism links dietary cues to adipose tissue dysfunction. <i>Adipocyte</i> , 2018, 7, 49-56.	1.3	25
64	Re-examining the potential of targeting ABHD6 in multiple sclerosis: Efficacy of systemic and peripherally restricted inhibitors in experimental autoimmune encephalomyelitis. <i>Neuropharmacology</i> , 2018, 141, 181-191.	2.0	22
65	Late-life intermittent fasting decreases aging-related frailty and increases renal hydrogen sulfide production in a sexually dimorphic manner. <i>GeroScience</i> , 2021, 43, 1527-1554.	2.1	22
66	Acute Sterol O-Acyltransferase 2 (SOAT2) Knockdown Rapidly Mobilizes Hepatic Cholesterol for Fecal Excretion. <i>PLoS ONE</i> , 2014, 9, e98953.	1.1	22
67	Uptake of high-density lipoprotein by scavenger receptor class B type 1 is associated with prostate cancer proliferation and tumor progression in mice. <i>Journal of Biological Chemistry</i> , 2020, 295, 8252-8261.	1.6	21
68	Gut microbial trimethylamine is elevated in alcohol-associated hepatitis and contributes to ethanol-induced liver injury in mice. <i>ELife</i> , 2022, 11, .	2.8	21
69	Adipose-selective overexpression of ABHD5/CGI-58 does not increase lipolysis or protect against diet-induced obesity. <i>Journal of Lipid Research</i> , 2011, 52, 2032-2042.	2.0	19
70	In vivo metabolite profiling as a means to identify uncharacterized lipase function: Recent success stories within the alpha beta hydrolase domain (ABHD) enzyme family. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1097-1101.	1.2	19
71	Gamma-tocotrienol attenuates the aberrant lipid mediator production in NLRP3 inflammasome-stimulated macrophages. <i>Journal of Nutritional Biochemistry</i> , 2018, 58, 169-177.	1.9	18
72	MBOAT7-driven phosphatidylinositol remodeling promotes the progression of clear cell renal carcinoma. <i>Molecular Metabolism</i> , 2020, 34, 136-145.	3.0	18

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73	Protein Mediators of Sterol Transport Across Intestinal Brush Border Membrane. <i>Sub-Cellular Biochemistry</i> , 2010, 51, 337-380.	1.0	16
74	Microbial Flavonoid Metabolism: A Cardiometabolic Disease Perspective. <i>Annual Review of Nutrition</i> , 2021, 41, 433-454.	4.3	16
75	Reduction of VLDL Secretion Decreases Cholesterol Excretion in Niemann-Pick C1-Like 1 Hepatic Transgenic Mice. <i>PLoS ONE</i> , 2014, 9, e84418.	1.1	15
76	Seeking a Unique Lipid Signature Predicting Cardiovascular Disease Risk. <i>Circulation</i> , 2014, 129, 1799-1803.	1.6	15
77	The retinol-binding protein receptor STRA6 regulates diurnal insulin responses. <i>Journal of Biological Chemistry</i> , 2017, 292, 15080-15093.	1.6	15
78	Alcoholic Liver Disease on the Rise: Interorgan Cross Talk Driving Liver Injury. <i>Alcoholism: Clinical and Experimental Research</i> , 2017, 41, 880-882.	1.4	14
79	Critical roles for $\hat{\pm}/\hat{2}$ hydrolase domain 5 (ABHD5)/comparative gene identification-58 (CGI-58) at the lipid droplet interface and beyond. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 1233-1241.	1.2	14
80	Membrane-bound O-acyltransferase 7 (MBOAT7)-driven phosphatidylinositol remodeling in advanced liver disease. <i>Journal of Lipid Research</i> , 2022, 63, 100234.	2.0	13
81	A surgical method for continuous intraportal infusion of gut microbial metabolites in mice. <i>JCI Insight</i> , 2021, 6, .	2.3	6
82	Flavin-Containing Monooxygenase 3 (FMO3) Is Critical for Dioxin-Induced Reorganization of the Gut Microbiome and Host Insulin Sensitivity. <i>Metabolites</i> , 2022, 12, 364.	1.3	6
83	Excess Growth Hormone Alters the Male Mouse Gut Microbiome in an Age-dependent Manner. <i>Endocrinology</i> , 2022, 163, .	1.4	4
84	A Single Human-Relevant Fast Food Meal Rapidly Reorganizes Metabolomic and Transcriptomic Signatures in a Gut Microbiota-Dependent Manner#. <i>Immunometabolism</i> , 2021, 3, .	0.7	3
85	Sterol O-acyltransferase 2-Driven Cholesterol Esterification Opposes Liver X Receptor- Stimulated Fecal Neutral Sterol Loss. <i>Lipids</i> , 2016, 51, 151-157.	0.7	2
86	Anacetrapib-driven triglyceride lowering explained: the fortuitous role of CETP in the intravascular catabolism of triglyceride-rich lipoproteins. <i>Journal of Lipid Research</i> , 2017, 58, 1031-1032.	2.0	2
87	Para-bile-osis Establishes a Role for Nonbiliary Macrophage to Feces Reverse Cholesterol Transport. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 738-739.	1.1	2
88	Hepatocyte activity of the cholesterol sensor smoothened regulates cholesterol and bile acid homeostasis in mice. <i>IScience</i> , 2021, 24, 103089.	1.9	2
89	Metabolic effects of duodenojejunal bypass surgery in a rat model of type 1 diabetes. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2021, 35, 3104-3114.	1.3	1
90	Eating to boost gut microbial diversity. <i>Science Translational Medicine</i> , 2016, 8, 369ec198.	5.8	1

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91	The remnants of coronary heart disease. Science Translational Medicine, 2016, 8, .	5.8	1
92	No foie gras with apolipoprotein B inhibitors?. Science Translational Medicine, 2016, 8, .	5.8	1
93	Regulation of the alpha beta hydrolase domain (ABHD) protein family in murine and human obesity. FASEB Journal, 2012, 26, 597.4.	0.2	0
94	Conjugated Linoleic Acid Reduces Adiposity and Increases Markers of Browning and Inflammation in White Adipose Tissue of Mice. FASEB Journal, 2013, 27, .	0.2	0
95	Rhythm fuels the adipose tissue fire. Science Translational Medicine, 2016, 8, .	5.8	0
96	Abstract 227: The Role of Fatty Acid Desaturase 1 in Inflammation Initiation and Resolution in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, .	1.1	0
97	Abstract 96: The Role of Flavin Monooxygenase 3 (FMO3) in Dietary Choline- and Cholesterol-Driven Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, .	1.1	0
98	You are what your great grandmother ate. Science Translational Medicine, 2016, 8, .	5.8	0
99	From mouse to man? Not necessarily!. Science Translational Medicine, 2016, 8, .	5.8	0
100	Fat weighing down the insulin receptor. Science Translational Medicine, 2016, 8, .	5.8	0
101	Real life zombie apocalypse in New York City. Science Translational Medicine, 2017, 9, .	5.8	0
102	Regulation of Brown Adipose Tissue Function by HuR. FASEB Journal, 2019, 33, 834.17.	0.2	0