J Mark Brown

List of Publications by Year
in descending order

102 papers	10,819 citations	61984 43 h-index	42399 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. Nature Medicine, 2013, 19, 576-585.	30.7	3,355
2	Gut Microbial Metabolite TMAO Enhances Platelet Hyperreactivity and Thrombosis Risk. Cell, 2016, 165, 111-124.	28.9	1,358
3	Development of a gut microbeâ€“targeted nonlethal therapeutic to inhibit thrombosis potential. Nature Medicine, 2018, 24, 1407-1417.	30.7	383
4	The Gut Microbial Endocrine Organ: Bacterially Derived Signals Driving Cardiometabolic Diseases. Annual Review of Medicine, 2015, 66, 343-359.	12.2	350
5	The TMAO-Generating Enzyme Flavin Monooxygenase 3 Is a Central Regulator of Cholesterol Balance. Cell Reports, 2015, 10, 326-338.	6.4	307
6	Microbial modulation of cardiovascular disease. Nature Reviews Microbiology, 2018, 16, 171-181.	28.6	301
7	Flavin containing monooxygenase 3 exerts broad effects on glucose and lipid metabolism and atherosclerosis. Journal of Lipid Research, 2015, 56, 22-37.	4.2	254
8	The TMAO-Producing Enzyme Flavin-Containing Monooxygenase 3 Regulates Obesity and the Beiging of White Adipose Tissue. Cell Reports, 2017, 19, 2451-2461.	6.4	194
9	Isomer-specific regulation of metabolism and PPARÎ³ signaling by CLA in human preadipocytes. Journal of Lipid Research, 2003, 44, 1287-1300.	4.2	192
10	Cancer Stem Cell-Specific Scavenger Receptor CD36 Drives Glioblastoma Progression. Stem Cells, 2014, 32, 1746-1758.	3.2	182
11	Inhibition of Stearoyl-Coenzyme A Desaturase 1 Dissociates Insulin Resistance and Obesity From Atherosclerosis. Circulation, 2008, 118, 1467-1475.	1.6	148
12	Conjugated Linoleic Acid Induces Human Adipocyte Delipidation. Journal of Biological Chemistry, 2004, 279, 26735-26747.	3.4	142
13	Mammalian alpha beta hydrolase domain (ABHD) proteins: Lipid metabolizing enzymes at the interface of cell signaling and energy metabolism. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 792-802.	2.4	138
14	CGI-58 knockdown sequesters diacylglycerols in lipid droplets/ER-preventing diacylglycerol-mediated hepatic insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1869-1874.	7.1	137
15	Conjugated Linoleic Acid in Humans: Regulation of Adiposity and Insulin Sensitivity. Journal of Nutrition, 2003, 133, 3041-3046.	2.9	135
16	EPRS is a critical mTORC1â€“S6K1 effector that influences adiposity in mice. Nature, 2017, 542, 357-361.	27.8	130
17	CGI-58 knockdown in mice causes hepatic steatosis but prevents diet-induced obesity and glucose intolerance. Journal of Lipid Research, 2010, 51, 3306-3315.	4.2	128
18	Î±/Î²-Hydrolase Domain-6-Accessible Monoacylglycerol Controls Glucose-Stimulated Insulin Secretion. Cell Metabolism, 2014, 19, 993-1007.	16.2	125

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19	Glioma Stem Cellâ€“Specific Superenhancer Promotes Polyunsaturated Fatty-Acid Synthesis to Support EGFR Signaling. Cancer Discovery, 2019, 9, 1248-1267.	9.4	120
20	The Serine Hydrolase ABHD6 Is a Critical Regulator of the Metabolic Syndrome. Cell Reports, 2013, 5, 508-520.	6.4	108
21	Biliary Sterol Secretion Is Not Required for Macrophage Reverse Cholesterol Transport. Cell Metabolism, 2010, 12, 96-102.	16.2	105
22	Targeted Depletion of Hepatic ACAT2-driven Cholesterol Esterification Reveals a Non-biliary Route for Fecal Neutral Sterol Loss. Journal of Biological Chemistry, 2008, 283, 10522-10534.	3.4	99
23	Modulation of the gut microbiota impacts nonalcoholic fatty liver disease: a potential role for bile acids. Journal of Lipid Research, 2017, 58, 1399-1416.	4.2	94
24	Obesity-linked suppression of membrane-bound O-acyltransferase 7 (MBOAT7) drives non-alcoholic fatty liver disease. ELife, 2019, 8, .	6.0	93
25	Stearoyl-coenzyme A desaturase 1 inhibition and the metabolic syndrome: considerations for future drug discovery. Current Opinion in Lipidology, 2010, 21, 192-197.	2.7	89
26	Targeting of microbe-derived metabolites to improve human health: The next frontier for drug discovery. Journal of Biological Chemistry, 2017, 292, 8560-8568.	3.4	88
27	Î”-5 Fatty Acid Desaturase FADS1 Impacts Metabolic Disease by Balancing Proinflammatory and Proresolving Lipid Mediators. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 218-231.	2.4	81
28	Liver-Specific Inhibition of Acyl-Coenzyme A:Cholesterol Acyltransferase 2 With Antisense Oligonucleotides Limits Atherosclerosis Development in Apolipoprotein B100â€“Only Low-Density Lipoprotein Receptorâ^'/â^'Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1814-1820.	2.4	77
29	Scavenger Receptor Class B Type I Is a Plasma Membrane Cholesterol Sensor. Circulation Research, 2013, 112, 140-151.	4.5	72
30	Biliary and nonbiliary contributions to reverse cholesterol transport. Current Opinion in Lipidology, 2012, 23, 85-90.	2.7	69
31	Metaorganismal nutrient metabolism as a basis of cardiovascular disease. Current Opinion in Lipidology, 2014, 25, 48-53.	2.7	68
32	Bile acids profile, histopathological indices and genetic variants for non-alcoholic fatty liver disease progression. Metabolism: Clinical and Experimental, 2021, 116, 154457.	3.4	62
33	Î±/Î²-Hydrolase Domain 6 Deletion Induces Adipose Browning and Prevents Obesity and Type 2 Diabetes. Cell Reports, 2016, 14, 2872-2888.	6.4	61
34	Altered lipid metabolism marks glioblastoma stem and non-stem cells in separate tumor niches. Acta Neuropathologica Communications, 2021, 9, 101.	5.2	60
35	Combined Therapy of Dietary Fish Oil and Stearoyl-CoA Desaturase 1 Inhibition Prevents the Metabolic Syndrome and Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 24-30.	2.4	59
36	Hypophagia and metabolic adaptations in mice with defective ATGL-mediated lipolysis cause resistance to HFD-induced obesity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13850-13855.	7.1	58

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37	An in vivo multiplexed small-molecule screening platform. Nature Methods, 2016, 13, 883-889.	19.0	57
38	A new model of reverse cholesterol transport: enTICEing strategies to stimulate intestinal cholesterol excretion. Trends in Pharmacological Sciences, 2015, 36, 440-451.	8.7	55
39	Emerging roles of flavin monooxygenase 3 in cholesterol metabolism and atherosclerosis. Current Opinion in Lipidology, 2015, 26, 426-431.	2.7	52
40	Opposing Gatekeepers of Apical Sterol Transport: Niemann-Pick C1-Like 1 (NPC1L1) and ATP-Binding Cassette Transporters G5 and G8 (ABCG5/ABCG8). Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry, 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. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H1474-H1486.	3.2	48
42	CGI-58 facilitates the mobilization of cytoplasmic triglyceride for lipoprotein secretion in hepatoma cells. Journal of Lipid Research, 2007, 48, 2295-2305.	4.2	47
43	CGI-58/ABHD5-Derived Signaling Lipids Regulate Systemic Inflammation and Insulin Action. Diabetes, 2012, 61, 355-363.	0.6	46
44	NPC1L1 (Niemannâ€“Pick C1-like 1) mediates sterol-specific unidirectional transport of non-esterified cholesterol in McArdle-RH7777 hepatoma cells. Biochemical Journal, 2007, 406, 273-283.	3.7	45
45	Effects of Lifestyle Intervention on Plasma Trimethylamine N-Oxide in Obese Adults. Nutrients, 2019, 11, 179.	4.1	42
46	Quantification of bile acids: a mass spectrometry platform for studying gut microbe connection to metabolic diseases. Journal of Lipid Research, 2020, 61, 159-177.	4.2	42
47	Cholesterol Esters (CE) Derived From Hepatic Sterol O-Acyltransferase 2 (SOAT2) Are Associated With More Atherosclerosis Than CE From Intestinal SOAT2. Circulation Research, 2014, 115, 826-833.	4.5	41
48	Genetic Deficiency of Flavin-Containing Monooxygenase 3 (Fmo3) Protects Against Thrombosis but Has Only a Minor Effect on Plasma Lipid Levelsâ€”Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1045-1054.	2.4	41
49	Î±/Î² Hydrolase Domain-containing 6 (ABHD6) Degrades the Late Endosomal/Lysosomal Lipid Bis(monoacylglycero)phosphate. Journal of Biological Chemistry, 2015, 290, 29869-29881.	3.4	37
50	Regulation of Hepatic Triacylglycerol Metabolism by CGI-58 Does Not Require ATGL Co-activation. Cell Reports, 2016, 16, 939-949.	6.4	36
51	Loss of HDAC6 alters gut microbiota and worsens obesity. FASEB Journal, 2019, 33, 1098-1109.	0.5	36
52	Tissue-specific knockouts of ACAT2 reveal that intestinal depletion is sufficient to prevent diet-induced cholesterol accumulation in the liver and blood. Journal of Lipid Research, 2012, 53, 1144-1152.	4.2	35
53	Severe consequences of a high-lipid diet include hydrogen sulfide dysfunction and enhanced aggression in glioblastoma. Journal of Clinical Investigation, 2021, 131, .	8.2	34
54	Deregulation of the endocannabinoid system and therapeutic potential of ABHD6 blockade in the cuprizone model of demyelination. Biochemical Pharmacology, 2018, 157, 189-201.	4.4	33

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55	Intestinal SR-BI does not impact cholesterol absorption or transintestinal cholesterol efflux in mice. Journal of Lipid Research, 2013, 54, 1567-1577.	4.2	31
56	Akt3 inhibits adipogenesis and protects from diet-induced obesity via signaling pathway. JCI Insight, 2017, 2, .	5.0	31
57	Distinct roles for Î±-Î² hydrolase domain 5 (ABHD5/CGI-58) and adipose triglyceride lipase (ATGL/PNPLA2) in lipid metabolism and signaling. Adipocyte, 2012, 1, 123-131.	2.8	29
58	The Gut Microbial Endocrine Organ in Type 2 Diabetes. Endocrinology, 2021, 162, .	2.8	29
59	Monounsaturated fatty acids and atherosclerosis: Opposing views from epidemiology and experimental animal models. Current Atherosclerosis Reports, 2007, 9, 494-500.	4.8	28
60	Deletion of CGI-58 or adipose triglyceride lipase differently affects macrophage function and atherosclerosis. Journal of Lipid Research, 2014, 55, 2562-2575.	4.2	27
61	Gut microbe-targeted choline trimethylamine lyase inhibition improves obesity via rewiring of host circadian rhythms. ELife, 2022, 11, .	6.0	27
62	The lipid droplet-associated protein perilipin 3 facilitates hepatitis C virus-driven hepatic steatosis. Journal of Lipid Research, 2017, 58, 420-432.	4.2	25
63	Postprandial gut microbiota-driven choline metabolism links dietary cues to adipose tissue dysfunction. Adipocyte, 2018, 7, 49-56.	2.8	25
64	Re-examining the potential of targeting ABHD6 in multiple sclerosis: Efficacy of systemic and peripherally restricted inhibitors in experimental autoimmune encephalomyelitis. Neuropharmacology, 2018, 141, 181-191.	4.1	22
65	Late-life intermittent fasting decreases aging-related frailty and increases renal hydrogen sulfide production in a sexually dimorphic manner. GeroScience, 2021, 43, 1527-1554.	4.6	22
66	Acute Sterol O-Acyltransferase 2 (SOAT2) Knockdown Rapidly Mobilizes Hepatic Cholesterol for Fecal Excretion. PLoS ONE, 2014, 9, e98953.	2.5	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. Journal of Biological Chemistry, 2020, 295, 8252-8261.	3.4	21
68	Gut microbial trimethylamine is elevated in alcohol-associated hepatitis and contributes to ethanol-induced liver injury in mice. ELife, 2022, 11, .	6.0	21
69	Adipose-selective overexpression of ABHD5/CGI-58 does not increase lipolysis or protect against diet-induced obesity. Journal of Lipid Research, 2011, 52, 2032-2042.	4.2	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. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1097-1101.	2.4	19
71	Gamma-tocotrienol attenuates the aberrant lipid mediator production in NLRP3 inflammasome-stimulated macrophages. Journal of Nutritional Biochemistry, 2018, 58, 169-177.	4.2	18
72	MBOAT7-driven phosphatidylinositol remodeling promotes the progression of clear cell renal carcinoma. Molecular Metabolism, 2020, 34, 136-145.	6.5	18

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73	Protein Mediators of Sterol Transport Across Intestinal Brush Border Membrane. Sub-Cellular Biochemistry, 2010, 51, 337-380.	2.4	16
74	Microbial Flavonoid Metabolism: A Cardiometabolic Disease Perspective. Annual Review of Nutrition, 2021, 41, 433-454.	10.1	16
75	Reduction of VLDL Secretion Decreases Cholesterol Excretion in Niemann-Pick C1-Like 1 Hepatic Transgenic Mice. PLoS ONE, 2014, 9, e84418.	2.5	15
76	Seeking a Unique Lipid Signature Predicting Cardiovascular Disease Risk. Circulation, 2014, 129, 1799-1803.	1.6	15
77	The retinol-binding protein receptor STRA6 regulates diurnal insulin responses. Journal of Biological Chemistry, 2017, 292, 15080-15093.	3.4	15
78	Alcoholic Liver Disease on the Rise: Interorgan Cross Talk Driving Liver Injury. Alcoholism: Clinical and Experimental Research, 2017, 41, 880-882.	2.4	14
79	Critical roles for Î±/Î² hydrolase domain 5 (ABHD5)/comparative gene identification-58 (CGI-58) at the lipid droplet interface and beyond. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1233-1241.	2.4	14
80	Membrane-bound O-acyltransferase 7 (MBOAT7)-driven phosphatidylinositol remodeling in advanced liver disease. Journal of Lipid Research, 2022, 63, 100234.	4.2	13
81	A surgical method for continuous intraportal infusion of gut microbial metabolites in mice. JCI Insight, 2021, 6, .	5.0	6
82	Flavin-Containing Monooxygenase 3 (FMO3) Is Critical for Dioxin-Induced Reorganization of the Gut Microbiome and Host Insulin Sensitivity. Metabolites, 2022, 12, 364.	2.9	6
83	Excess Growth Hormone Alters the Male Mouse Gut Microbiome in an Age-dependent Manner. Endocrinology, 2022, 163, .	2.8	4
84	A Single Human-Relevant Fast Food Meal Rapidly Reorganizes Metabolomic and Transcriptomic Signatures in a Gut Microbiota-Dependent Manner#. Immunometabolism, 2021, 3, .	1.6	3
85	Sterol Oâ€Acyltransferase 2â€Driven Cholesterol Esterification Opposes Liver X Receptorâ€Stimulated Fecal Neutral Sterol Loss. Lipids, 2016, 51, 151-157.	1.7	2
86	Anacetrapib-driven triglyceride lowering explained: the fortuitous role of CETP in the intravascular catabolism of triglyceride-rich lipoproteins. Journal of Lipid Research, 2017, 58, 1031-1032.	4.2	2
87	Para-bile-osis Establishes a Role for Nonbiliary Macrophage to Feces Reverse Cholesterol Transport. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 738-739.	2.4	2
88	Hepatocyte activity of the cholesterol sensor smoothened regulates cholesterol and bile acid homeostasis in mice. IScience, 2021, 24, 103089.	4.1	2
89	Metabolic effects of duodenojejunal bypass surgery in a rat model of type 1 diabetes. Surgical Endoscopy and Other Interventional Techniques, 2021, 35, 3104-3114.	2.4	1
90	Eating to boost gut microbial diversity. Science Translational Medicine, 2016, 8, 369ec198.	12.4	1

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91	The remnants of coronary heart disease. Science Translational Medicine, 2016, 8, .	12.4	1
92	No foie gras with apolipoprotein B inhibitors?. Science Translational Medicine, 2016, 8, .	12.4	1
93	Regulation of the alpha beta hydrolase domain (ABHD) protein family in murine and human obesity. FASEB Journal, 2012, 26, 597.4.	0.5	0
94	Conjugated Linoleic Acid Reduces Adiposity and Increases Markers of Browning and Inflammation in White Adipose Tissue of Mice. FASEB Journal, 2013, 27, .	0.5	0
95	Rhythm fuels the adipose tissue fire. Science Translational Medicine, 2016, 8, .	12.4	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, .	2.4	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, .	2.4	0
98	You are what your great grandmother ate. Science Translational Medicine, 2016, 8, .	12.4	0
99	From mouse to man? Not necessarily!. Science Translational Medicine, 2016, 8, .	12.4	0
100	Fat weighing down the insulin receptor. Science Translational Medicine, 2016, 8, .	12.4	0
101	Real life zombie apocalypse in New York City. Science Translational Medicine, 2017, 9, .	12.4	0
102	Regulation of Brown Adipose Tissue Function by HuR. FASEB Journal, 2019, 33, 834.17.	0.5	0