

# MariÃ«tte R Boon

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

3,217  
citations

159358

30  
h-index

161609

54  
g-index

83  
all docs

83  
docs citations

83  
times ranked

4672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Brown fat activation reduces hypercholesterolaemia and protects from atherosclerosis development. <i>Nature Communications</i> , 2015, 6, 6356.	5.8	360
2	Human Brown Adipocyte Thermogenesis Is Driven by $\beta$ 2-AR Stimulation. <i>Cell Metabolism</i> , 2020, 32, 287-300.e7.	7.2	185
3	Brown adipose tissue takes up plasma triglycerides mostly after lipolysis. <i>Journal of Lipid Research</i> , 2015, 56, 51-59.	2.0	147
4	Role of Brown Fat in Lipoprotein Metabolism and Atherosclerosis. <i>Circulation Research</i> , 2016, 118, 173-182.	2.0	139
5	Brown adipose tissue volume in healthy lean south Asian adults compared with white Caucasians: a prospective, case-controlled observational study. <i>Lancet Diabetes and Endocrinology</i> , 2014, 2, 210-217.	5.5	131
6	Metformin Lowers Plasma Triglycerides by Promoting VLDL-Triglyceride Clearance by Brown Adipose Tissue in Mice. <i>Diabetes</i> , 2014, 63, 880-891.	0.3	129
7	Thermogenic adipocytes promote HDL turnover and reverse cholesterol transport. <i>Nature Communications</i> , 2017, 8, 15010.	5.8	117
8	Central GLP-1 receptor signalling accelerates plasma clearance of triacylglycerol and glucose by activating brown adipose tissue in mice. <i>Diabetologia</i> , 2015, 58, 2637-2646.	2.9	100
9	ANGPTL4 mediates shuttling of lipid fuel to brown adipose tissue during sustained cold exposure. <i>ELife</i> , 2015, 4, .	2.8	100
10	Sympathetic nervous system control of triglyceride metabolism: novel concepts derived from recent studies. <i>Journal of Lipid Research</i> , 2014, 55, 180-189.	2.0	97
11	Peripheral cannabinoid 1 receptor blockade activates brown adipose tissue and diminishes dyslipidemia and obesity. <i>FASEB Journal</i> , 2014, 28, 5361-5375.	0.2	85
12	Bone morphogenetic protein 7: A broad-spectrum growth factor with multiple target therapeutic potency. <i>Cytokine and Growth Factor Reviews</i> , 2011, 22, 221-229.	3.2	83
13	BMP7 Activates Brown Adipose Tissue and Reduces Diet-Induced Obesity Only at Subthermoneutrality. <i>PLoS ONE</i> , 2013, 8, e74083.	1.1	82
14	Targeting white, brown and perivascular adipose tissue in atherosclerosis development. <i>European Journal of Pharmacology</i> , 2017, 816, 82-92.	1.7	82
15	Supraclavicular Skin Temperature as a Measure of <sup>18</sup> F-FDG Uptake by BAT in Human Subjects. <i>PLoS ONE</i> , 2014, 9, e98822.	1.1	74
16	Regulation of brown fat by AMP-activated protein kinase. <i>Trends in Molecular Medicine</i> , 2015, 21, 571-579.	3.5	62
17	USF1 deficiency activates brown adipose tissue and improves cardiometabolic health. <i>Science Translational Medicine</i> , 2016, 8, 323ra13.	5.8	58
18	Role of Human Brown Fat in Obesity, Metabolism and Cardiovascular Disease: Strategies to Turn Up the Heat. <i>Progress in Cardiovascular Diseases</i> , 2018, 61, 232-245.	1.6	58

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19	Pyruvate dehydrogenase complex plays a central role in brown adipocyte energy expenditure and fuel utilization during short-term beta-adrenergic activation. <i>Scientific Reports</i> , 2018, 8, 9562.	1.6	53
20	Quercetin Lowers Plasma Triglycerides Accompanied by White Adipose Tissue Browning in Diet-Induced Obese Mice. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1786.	1.8	50
21	A New Personalized Cooling Protocol to Activate Brown Adipose Tissue in Young Adults. <i>Frontiers in Physiology</i> , 2017, 8, 863.	1.3	44
22	The impact of using BARCIST 1.0 criteria on quantification of BAT volume and activity in three independent cohorts of adults. <i>Scientific Reports</i> , 2018, 8, 8567.	1.6	42
23	Cold Exposure Partially Corrects Disturbances in Lipid Metabolism in a Male Mouse Model of Glucocorticoid Excess. <i>Endocrinology</i> , 2015, 156, 4115-4128.	1.4	41
24	Deficiency of the oxygen sensor prolyl hydroxylase 1 attenuates hypercholesterolaemia, atherosclerosis, and hyperglycaemia. <i>European Heart Journal</i> , 2016, 37, 2993-2997.	1.0	40
25	A single day of high-fat diet feeding induces lipid accumulation and insulin resistance in brown adipose tissue in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E820-E830.	1.8	40
26	High Fat Diet Increases Circulating Endocannabinoids Accompanied by Increased Synthesis Enzymes in Adipose Tissue. <i>Frontiers in Physiology</i> , 2018, 9, 1913.	1.3	40
27	Salsalate Activates Brown Adipose Tissue in Mice. <i>Diabetes</i> , 2015, 64, 1544-1554.	0.3	38
28	Short-term cooling increases serum triglycerides and small high-density lipoprotein levels in humans. <i>Journal of Clinical Lipidology</i> , 2017, 11, 920-928.e2.	0.6	37
29	Identification of a selective glucocorticoid receptor modulator that prevents both diet-induced obesity and inflammation. <i>British Journal of Pharmacology</i> , 2016, 173, 1793-1804.	2.7	35
30	The Role of AMPK Signaling in Brown Adipose Tissue Activation. <i>Cells</i> , 2021, 10, 1122.	1.8	35
31	Pharmacological treatment with FGF21 strongly improves plasma cholesterol metabolism to reduce atherosclerosis. <i>Cardiovascular Research</i> , 2022, 118, 489-502.	1.8	34
32	Salsalate attenuates diet induced non-alcoholic steatohepatitis in mice by decreasing lipogenic and inflammatory processes. <i>British Journal of Pharmacology</i> , 2015, 172, 5293-5305.	2.7	29
33	BCG lowers plasma cholesterol levels and delays atherosclerotic lesion progression in mice. <i>Atherosclerosis</i> , 2016, 251, 6-14.	0.4	27
34	Selective glucocorticoid receptor modulation prevents and reverses non-alcoholic fatty liver disease in male mice. <i>Endocrinology</i> , 2018, 159, 3925-3936.	1.4	27
35	Inhibition of the central melanocortin system decreases brown adipose tissue activity. <i>Journal of Lipid Research</i> , 2014, 55, 2022-2032.	2.0	25
36	Brown Adipose Tissue: A Human Perspective. <i>Handbook of Experimental Pharmacology</i> , 2015, 233, 301-319.	0.9	25

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37	The effect of mirabegron on energy expenditure and brown adipose tissue in healthy lean South Asian and European men. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, 2032-2044.	2.2	25
38	Smoking is associated with increased resting energy expenditure in the general population: The NEO study. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 1548-1555.	1.5	24
39	LysoPC-acyl C16:0 is associated with brown adipose tissue activity in men. <i>Metabolomics</i> , 2017, 13, 48.	1.4	23
40	Endocannabinoid tone is higher in healthy lean South Asian than white Caucasian men. <i>Scientific Reports</i> , 2017, 7, 7558.	1.6	23
41	Atorvastatin accelerates clearance of lipoprotein remnants generated by activated brown fat to further reduce hypercholesterolemia and atherosclerosis. <i>Atherosclerosis</i> , 2017, 267, 116-126.	0.4	23
42	Twelve weeks of exenatide treatment increases [ <sup>18</sup> F]fluorodeoxyglucose uptake by brown adipose tissue without affecting oxidative resting energy expenditure in nondiabetic males. <i>Metabolism: Clinical and Experimental</i> , 2020, 106, 154167.	1.5	23
43	Differences between the most used equations in BAT-human studies to estimate parameters of skin temperature in young lean men. <i>Scientific Reports</i> , 2017, 7, 10530.	1.6	22
44	Colesevelam enhances the beneficial effects of brown fat activation on hyperlipidaemia and atherosclerosis development. <i>Cardiovascular Research</i> , 2020, 116, 1710-1720.	1.8	22
45	Lower critical temperature and cold-induced thermogenesis of lean and overweight humans are inversely related to body mass and basal metabolic rate. <i>Journal of Thermal Biology</i> , 2017, 69, 238-248.	1.1	20
46	Effect of sitagliptin on energy metabolism and brown adipose tissue in overweight individuals with prediabetes: a randomised placebo-controlled trial. <i>Diabetologia</i> , 2018, 61, 2386-2397.	2.9	19
47	Effect of l-arginine on energy metabolism, skeletal muscle and brown adipose tissue in South Asian and European prediabetic men: a randomised double-blinded crossover study. <i>Diabetologia</i> , 2019, 62, 112-122.	2.9	18
48	Helminth antigens counteract a rapid high-fat diet-induced decrease in adipose tissue eosinophils. <i>Journal of Molecular Endocrinology</i> , 2017, 59, 245-255.	1.1	17
49	Human Brown Adipose Tissue Estimated With Magnetic Resonance Imaging Undergoes Changes in Composition After Cold Exposure: An in vivo MRI Study in Healthy Volunteers. <i>Frontiers in Endocrinology</i> , 2019, 10, 898.	1.5	17
50	High prevalence of cardiovascular disease in South Asians: Central role for brown adipose tissue?. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2015, 52, 150-157.	2.7	16
51	Distribution of Brown Adipose Tissue Radiodensity in Young Adults: Implications for Cold [ <sup>18</sup> F]FDG-PET/CT Analyses. <i>Molecular Imaging and Biology</i> , 2020, 22, 425-433.	1.3	13
52	E-Selectin is Elevated in Cord Blood of South Asian Neonates Compared with Caucasian Neonates. <i>Journal of Pediatrics</i> , 2012, 160, 844-848.e1.	0.9	12
53	LDL aggregation susceptibility is higher in healthy South Asian compared with white Caucasian men. <i>Journal of Clinical Lipidology</i> , 2019, 13, 910-919.e2.	0.6	11
54	Fat Cells Gain New Identities. <i>Science Translational Medicine</i> , 2014, 6, 247fs29.	5.8	10

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55	Cold acclimation affects immune composition in skeletal muscle of healthy lean subjects. <i>Physiological Reports</i> , 2015, 3, e12394.	0.7	10
56	Comprehensive (apo)lipoprotein profiling in patients with genetic hypertriglyceridemia using LC-MS and NMR spectroscopy. <i>Journal of Clinical Lipidology</i> , 2022, 16, 472-482.	0.6	10
57	Activation and quantification of human brown adipose tissue: Methodological considerations for between studies comparisons. <i>European Journal of Internal Medicine</i> , 2017, 40, e19-e21.	1.0	8
58	Short-term cooling increases serum angiopoietin-like 4 levels in healthy lean men. <i>Journal of Clinical Lipidology</i> , 2018, 12, 56-61.	0.6	8
59	Conditionally immortalized brown preadipocytes can switch between proliferative and differentiated states. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 158511.	1.2	8
60	Role of Brown Adipose Tissue in Adiposity Associated With Narcolepsy Type 1. <i>Frontiers in Endocrinology</i> , 2020, 11, 145.	1.5	8
61	Higher Plasma Sclerostin and Lower Wnt Signaling Gene Expression in White Adipose Tissue of Prediabetic South Asian Men Compared with White Caucasian Men. <i>Diabetes and Metabolism Journal</i> , 2020, 44, 326.	1.8	8
62	Gene Expression of Endocannabinoid System Components in Skeletal Muscle and Adipose Tissue of South Asians and White Caucasians with Overweight. <i>Obesity</i> , 2018, 26, 1332-1337.	1.5	7
63	Short-Term Cooling Increases Plasma ANGPTL3 and ANGPTL8 in Young Healthy Lean Men but Not in Middle-Aged Men with Overweight and Prediabetes. <i>Journal of Clinical Medicine</i> , 2019, 8, 1214.	1.0	7
64	Supraclavicular skin temperature measured by iButtons and 18F-fluorodeoxyglucose uptake by brown adipose tissue in adults. <i>Journal of Thermal Biology</i> , 2019, 82, 178-185.	1.1	6
65	Deletion of haematopoietic Dectin-2 or CARD9 does not protect from atherosclerosis development under hyperglycaemic conditions. <i>Diabetes and Vascular Disease Research</i> , 2020, 17, 147916411989214.	0.9	6
66	Circadian control of brown adipose tissue. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158961.	1.2	6
67	Cold-Induced Thermogenesis Shows a Diurnal Variation That Unfolds Differently in Males and Females. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, 1626-1635.	1.8	6
68	IL-37 Expression Reduces Lean Body Mass in Mice by Reducing Food Intake. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2264.	1.8	5
69	South Asian men have lower expression of IFN signalling genes in white adipose tissue and skeletal muscle compared with white men. <i>Diabetologia</i> , 2017, 60, 2525-2528.	2.9	4
70	Hematopoietic upstream stimulating factor 1 deficiency is associated with increased atherosclerosis susceptibility in LDL receptor knockout mice. <i>Scientific Reports</i> , 2021, 11, 16419.	1.6	4
71	Physiological changes due to mild cooling in healthy lean males of white Caucasian and South Asian descent: A metabolomics study. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 152-157.	1.4	3
72	A simplified procedure to trace triglyceride-rich lipoprotein metabolism in vivo. <i>Physiological Reports</i> , 2021, 9, e14820.	0.7	3

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73	The effect of cold exposure on circulating transcript levels of immune genes in Dutch South Asian and Dutch European men. <i>Journal of Thermal Biology</i> , 2022, 107, 103259.	1.1	3
74	Tracing human brown fat. <i>Nature Medicine</i> , 2015, 21, 667-668.	15.2	1
75	The Mediating Role of Brown Fat and Skeletal Muscle Measured by <sup>18</sup> F-Fluorodeoxyglucose in the Thermoregulatory System in Young Adults. <i>Obesity</i> , 2019, 27, 963-970.	1.5	1
76	PS19 - 90. BMP-7 reduces high fat diet-induced adiposity in mice by activating brown adipose tissue in a sympathetic-dependent way: Implications for obesity. <i>Nederlands Tijdschrift Voor Diabetologie</i> , 2012, 10, 163-163.	0.0	0
77	PS1 - 3. Central GLP-1 receptor activation increases triglyceride and glucose clearance by brown adipose tissue. <i>Nederlands Tijdschrift Voor Diabetologie</i> , 2013, 11, 134-134.	0.0	0
78	PS1 - 8. Brown adipose tissue volume is markedly lower in healthy lean adolescents from South Asian compared to white Caucasian origin. <i>Nederlands Tijdschrift Voor Diabetologie</i> , 2013, 11, 147-147.	0.0	0
79	Abstract 400: Cannabinoid 1 Receptor Blockade Diminishes Obesity and Dyslipidemia via Peripheral Activation of Brown Adipose Tissue. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, .	1.1	0
80	Abstract 68: Activation of Brown Adipose Tissue Reduces Development of Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, .	1.1	0
81	Abstract 202: Inhibition of Central Melanocortin 4 Receptor Signaling Severely Impairs Brown Adipose Tissue Activity and VLDL Metabolism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, .	1.1	0