

# Marlene A Van Baak

## List of Publications by Citations

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116  
papers

3,800  
citations

32  
h-index

57  
g-index

151  
ext. papers

4,382  
ext. citations

6.1  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
116	Diets with high or low protein content and glycemic index for weight-loss maintenance. <i>New England Journal of Medicine</i> , <b>2010</b> , 363, 2102-13	59.2	604
115	Systemic adrenergic stimulation of thermogenesis is not accompanied by brown adipose tissue activity in humans. <i>Diabetes</i> , <b>2012</b> , 61, 3106-13	0.9	148
114	The Diet, Obesity and Genes (Diogenes) Dietary Study in eight European countries - a comprehensive design for long-term intervention. <i>Obesity Reviews</i> , <b>2010</b> , 11, 76-91	10.6	143
113	Effects of weight loss and long-term weight maintenance with diets varying in protein and glycemic index on cardiovascular risk factors: the diet, obesity, and genes (DiOGenes) study: a randomized, controlled trial. <i>Circulation</i> , <b>2011</b> , 124, 2829-38	16.7	131
112	Starches, sugars and obesity. <i>Nutrients</i> , <b>2011</b> , 3, 341-69	6.7	129
111	Brown adipose tissue activity after a high-calorie meal in humans. <i>American Journal of Clinical Nutrition</i> , <b>2013</b> , 98, 57-64	7	118
110	Dietary protein and blood pressure: a systematic review. <i>PLoS ONE</i> , <b>2010</b> , 5, e12102	3.7	109
109	Dietary acid load and risk of hypertension: the Rotterdam Study. <i>American Journal of Clinical Nutrition</i> , <b>2012</b> , 95, 1438-44	7	97
108	Acute effect of L-796568, a novel beta 3-adrenergic receptor agonist, on energy expenditure in obese men. <i>Clinical Pharmacology and Therapeutics</i> , <b>2002</b> , 71, 272-9	6.1	84
107	Weight loss maintenance in overweight subjects on ad libitum diets with high or low protein content and glycemic index: the DIOGENES trial 12-month results. <i>International Journal of Obesity</i> , <b>2014</b> , 38, 1511-7	5.5	83
106	Dietary acid load and metabolic acidosis in renal transplant recipients. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2012</b> , 7, 1811-8	6.9	74
105	Meal-induced activation of the sympathetic nervous system and its cardiovascular and thermogenic effects in man. <i>Physiology and Behavior</i> , <b>2008</b> , 94, 178-86	3.5	69
104	The effect of rate of weight loss on long-term weight regain in adults with overweight and obesity. <i>Obesity</i> , <b>2016</b> , 24, 321-7	8	68
103	The effect of protein and glycemic index on children's body composition: the DiOGenes randomized study. <i>Pediatrics</i> , <b>2010</b> , 126, e1143-52	7.4	68
102	Perceptions on healthy eating, physical activity and lifestyle advice: opportunities for adapting lifestyle interventions to individuals with low socioeconomic status. <i>BMC Public Health</i> , <b>2014</b> , 14, 1036	4.1	61
101	Lack of evidence for the role of human adenovirus-36 in obesity in a European cohort. <i>Obesity</i> , <b>2011</b> , 19, 220-1	8	58
100	Leisure-time activity is an important determinant of long-term weight maintenance after weight loss in the Sibutramine Trial on Obesity Reduction and Maintenance (STORM trial). <i>American Journal of Clinical Nutrition</i> , <b>2003</b> , 78, 209-14	7	58

99	Sodium intake and blood pressure in renal transplant recipients. <i>Nephrology Dialysis Transplantation</i> , <b>2012</b> , 27, 3352-9	4.3	54
98	Reliability of tests to determine peak aerobic power, anaerobic power and isokinetic muscle strength in children with spastic cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , <b>1996</b> , 38, 1117-25	3.3	52
97	Mechanisms of weight regain after weight loss - the role of adipose tissue. <i>Nature Reviews Endocrinology</i> , <b>2019</b> , 15, 274-287	15.2	50
96	A distinct adipose tissue gene expression response to caloric restriction predicts 6-mo weight maintenance in obese subjects. <i>American Journal of Clinical Nutrition</i> , <b>2011</b> , 94, 1399-409	7	48
95	Validation of the [1,2-13C]acetate recovery factor for correction of [U-13C]palmitate oxidation rates in humans. <i>Journal of Physiology</i> , <b>1998</b> , 513 ( Pt 1), 215-23	3.9	44
94	Short-term effects of weight loss with or without low-intensity exercise training on fat metabolism in obese men. <i>American Journal of Clinical Nutrition</i> , <b>2001</b> , 73, 523-31	7	44
93	Dietary protein, blood pressure and renal function in renal transplant recipients. <i>British Journal of Nutrition</i> , <b>2013</b> , 109, 1463-70	3.6	43
92	Initial weight loss on an 800-kcal diet as a predictor of weight loss success after 8 weeks: the Diogenes study. <i>European Journal of Clinical Nutrition</i> , <b>2010</b> , 64, 994-9	5.2	43
91	The physiologic effects of caloric restriction are reflected in the in vivo adipocyte-enriched proteome of overweight/obese subjects. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 5532-40	5.6	41
90	The effect of low-intensity exercise training on fat metabolism of obese women. <i>Obesity</i> , <b>2001</b> , 9, 86-96		41
89	Identification of biomarkers for intake of protein from meat, dairy products and grains: a controlled dietary intervention study. <i>British Journal of Nutrition</i> , <b>2013</b> , 110, 810-22	3.6	37
88	Developing a methodology for assigning glycaemic index values to foods consumed across Europe. <i>Obesity Reviews</i> , <b>2010</b> , 11, 92-100	10.6	37
87	Beta-adrenergic receptor blockade does not inhibit cold-induced thermogenesis in humans: possible involvement of brown adipose tissue. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2011</b> , 96, E598-605	5.6	37
86	Hormone-sensitive lipase serine phosphorylation and glycerol exchange across skeletal muscle in lean and obese subjects: effect of beta-adrenergic stimulation. <i>Diabetes</i> , <b>2008</b> , 57, 1834-41	0.9	36
85	Influence of thermophysiology on thermal behavior: the essentials of categorization. <i>Physiology and Behavior</i> , <b>2014</b> , 128, 180-7	3.5	35
84	Analyses of single nucleotide polymorphisms in selected nutrient-sensitive genes in weight-regain prevention: the DIOGENES study. <i>American Journal of Clinical Nutrition</i> , <b>2012</b> , 95, 1254-60	7	32
83	Blood profile of proteins and steroid hormones predicts weight change after weight loss with interactions of dietary protein level and glycemic index. <i>PLoS ONE</i> , <b>2011</b> , 6, e16773	3.7	32
82	Circulating ACE is a predictor of weight loss maintenance not only in overweight and obese women, but also in men. <i>International Journal of Obesity</i> , <b>2012</b> , 36, 1545-51	5.5	31

81	Exercise training-induced effects on the abdominal subcutaneous adipose tissue phenotype in humans with obesity. <i>Journal of Applied Physiology</i> , <b>2018</b> , 125, 1585-1593	3.7	31
80	In vivo beta3-adrenergic stimulation of human thermogenesis and lipid use. <i>Clinical Pharmacology and Therapeutics</i> , <b>2000</b> , 67, 558-66	6.1	30
79	Application of the Theory of Planned Behaviour to weight control in an overweight cohort. Results from a pan-European dietary intervention trial (DiOGenes). <i>Appetite</i> , <b>2012</b> , 58, 313-8	4.5	29
78	Changes in skinfold thickness and waist circumference after 12 and 24 months resulting from the NHF-NRG In Balance-project. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , <b>2010</b> , 7, 26	8.4	29
77	Physical activity and energy balance. <i>Public Health Nutrition</i> , <b>1999</b> , 2, 335-9	3.3	28
76	The cilium: a cellular antenna with an influence on obesity risk. <i>British Journal of Nutrition</i> , <b>2016</b> , 116, 576-92	3.6	26
75	The role of dietary protein in blood pressure regulation. <i>Current Opinion in Lipidology</i> , <b>2013</b> , 24, 65-70	4.4	24
74	Protein supplementation lowers blood pressure in overweight adults: effect of dietary proteins on blood pressure (PROPRES), a randomized trial. <i>American Journal of Clinical Nutrition</i> , <b>2012</b> , 95, 966-71	7	23
73	Caloric restriction induces changes in insulin and body weight measurements that are inversely associated with subsequent weight regain. <i>PLoS ONE</i> , <b>2012</b> , 7, e42858	3.7	22
72	Dietary acid load and rapid progression to end-stage renal disease of diabetic nephropathy in Westernized South Asian people. <i>Journal of Nephrology</i> , <b>2011</b> , 24, 11-7	4.8	22
71	Challenges of a healthy lifestyle for socially disadvantaged people of Dutch, Moroccan and Turkish origin in the Netherlands: a focus group study. <i>Critical Public Health</i> , <b>2015</b> , 25, 615-626	2.6	21
70	Increased Oxidation with improved glucose uptake capacity in adipose tissue from obese after weight loss and maintenance. <i>Obesity</i> , <b>2014</b> , 22, 819-27	8	21
69	Extreme obesity is associated with variation in genes related to the circadian rhythm of food intake and hypothalamic signaling. <i>Physiological Genomics</i> , <b>2015</b> , 47, 225-31	3.6	21
68	Metabolic syndrome, circulating RBP4, testosterone, and SHBG predict weight regain at 6 months after weight loss in men. <i>Obesity</i> , <b>2013</b> , 21, 1997-2006	8	20
67	Dietary Intake of Protein from Different Sources and Weight Regain, Changes in Body Composition and Cardiometabolic Risk Factors after Weight Loss: The DiOGenes Study. <i>Nutrients</i> , <b>2017</b> , 9,	6.7	19
66	Blood profiling of proteins and steroids during weight maintenance with manipulation of dietary protein level and glycaemic index. <i>British Journal of Nutrition</i> , <b>2012</b> , 107, 106-19	3.6	18
65	A role for leukocyte integrins and extracellular matrix remodeling of adipose tissue in the risk of weight regain after weight loss. <i>American Journal of Clinical Nutrition</i> , <b>2017</b> , 105, 1054-1062	7	17
64	Dietary weight loss-induced changes in RBP4, FFA, and ACE predict weight regain in people with overweight and obesity. <i>Physiological Reports</i> , <b>2017</b> , 5, e13450	2.6	17

63	Blunted beta-adrenoceptor-mediated fat oxidation in overweight subjects: a role for the hormone-sensitive lipase gene. <i>Metabolism: Clinical and Experimental</i> , <b>2008</b> , 57, 326-32	12.7	17
62	Effect of exercise training on weight loss, body composition changes, and weight maintenance in adults with overweight or obesity: An overview of 12 systematic reviews and 149 studies. <i>Obesity Reviews</i> , <b>2021</b> , 22 Suppl 4, e13256	10.6	17
61	Weight loss decreases self-reported appetite and alters food preferences in overweight and obese adults: Observational data from the DiOGenes study. <i>Appetite</i> , <b>2018</b> , 125, 314-322	4.5	16
60	Variation in extracellular matrix genes is associated with weight regain after weight loss in a sex-specific manner. <i>Genes and Nutrition</i> , <b>2015</b> , 10, 56	4.3	16
59	Estimating real cell size distribution from cross-section microscopy imaging. <i>Bioinformatics</i> , <b>2016</b> , 32, i396-i404	7.2	16
58	Dietary Strategies for Weight Loss Maintenance. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	15
57	Experience and acceptability of diets of varying protein content and glycemic index in an obese cohort: results from the Diogenes trial. <i>European Journal of Clinical Nutrition</i> , <b>2013</b> , 67, 990-5	5.2	15
56	Dietary Inflammatory Index Score and Its Association with Body Weight, Blood Pressure, Lipid Profile, and Leptin in Indonesian Adults. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	15
55	Effect of a high-protein diet on maintenance of blood pressure levels achieved after initial weight loss: the DiOGenes randomized study. <i>Journal of Human Hypertension</i> , <b>2015</b> , 29, 58-63	2.6	14
54	Passive exposure to heat improves glucose metabolism in overweight humans. <i>Acta Physiologica</i> , <b>2020</b> , 229, e13488	5.6	14
53	Associations between the proportion of fat-free mass loss during weight loss, changes in appetite, and subsequent weight change: results from a randomized 2-stage dietary intervention trial. <i>American Journal of Clinical Nutrition</i> , <b>2020</b> , 111, 536-544	7	14
52	Differential effects of proteins and carbohydrates on postprandial blood pressure-related responses. <i>British Journal of Nutrition</i> , <b>2014</b> , 112, 600-8	3.6	14
51	Impact of weight loss and maintenance with ad libitum diets varying in protein and glycemic index content on metabolic syndrome. <i>Nutrition</i> , <b>2014</b> , 30, 410-7	4.8	14
50	Measuring physical activity in field studies: Comparison of a questionnaire, 24-hour recall and an accelerometer. <i>European Journal of Sport Science</i> , <b>2007</b> , 7, 193-201	3.9	14
49	Effect of aging on beta-adrenergically mediated thermogenesis in men. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1998</b> , 274, E1075-9	6	14
48	Adipose tissue oxygenation is associated with insulin sensitivity independently of adiposity in obese men and women. <i>Diabetes, Obesity and Metabolism</i> , <b>2018</b> , 20, 2286-2290	6.7	13
47	Dietary Intake after Weight Loss and the Risk of Weight Regain: Macronutrient Composition and Inflammatory Properties of the Diet. <i>Nutrients</i> , <b>2017</b> , 9,	6.7	13
46	Olfactory receptor genes cooperate with protocadherin genes in human extreme obesity. <i>Genes and Nutrition</i> , <b>2015</b> , 10, 465	4.3	13

45	Nutrition as a link between obesity and cardiovascular disease: how can we stop the obesity epidemic?. <i>Thrombosis and Haemostasis</i> , <b>2013</b> , 110, 689-96	7	13
44	Effects of different protein content and glycaemic index of ad libitum diets on diabetes risk factors in overweight adults: the DIOGenes multicentre, randomized, dietary intervention trial. <i>Diabetes/Metabolism Research and Reviews</i> , <b>2011</b> , 27, 705-16	7.5	13
43	Influence of SNPs in nutrient-sensitive candidate genes and gene-diet interactions on blood lipids: the DiOGenes study. <i>British Journal of Nutrition</i> , <b>2013</b> , 110, 790-6	3.6	12
42	Behavioral and cognitive effects of a worksite-based weight gain prevention program: the NHF-NRG in balance-project. <i>Journal of Occupational and Environmental Medicine</i> , <b>2009</b> , 51, 1437-46	2	12
41	A multicentre weight loss study using a low-calorie diet over 8 weeks: regional differences in efficacy across eight European cities. <i>Swiss Medical Weekly</i> , <b>2013</b> , 143, w13721	3.1	11
40	Supplementation of prebiotics to a whey-based beverage reduces the risk of hypercholesterolaemia in rats. <i>International Dairy Journal</i> , <b>2015</b> , 48, 80-84	3.5	10
39	The effect of warmth acclimation on behaviour, thermophysiology and perception. <i>Building Research and Information</i> , <b>2017</b> , 45, 800-807	4.3	9
38	High frequency of rare variants with a moderate-to-high predicted biological effect in protocadherin genes of extremely obese. <i>Genes and Nutrition</i> , <b>2014</b> , 9, 399	4.3	9
37	Associations between dairy protein intake and body weight and risk markers of diabetes and CVD during weight maintenance. <i>British Journal of Nutrition</i> , <b>2014</b> , 111, 944-53	3.6	9
36	Adaptive thermogenesis during over- and underfeeding in man. <i>British Journal of Nutrition</i> , <b>2004</b> , 91, 329-30	3.6	9
35	Effect of exercise on cardiometabolic health of adults with overweight or obesity: Focus on blood pressure, insulin resistance, and intrahepatic fat-A systematic review and meta-analysis. <i>Obesity Reviews</i> , <b>2021</b> , 22 Suppl 4, e13269	10.6	9
34	Effect of exercise training before and after bariatric surgery: A systematic review and meta-analysis. <i>Obesity Reviews</i> , <b>2021</b> , 22 Suppl 4, e13296	10.6	9
33	The Effect of Vitamin D Supplementation on Insulin Sensitivity: A Systematic Review and Meta-analysis. <i>Diabetes Care</i> , <b>2020</b> , 43, 1659-1669	14.6	8
32	A lifestyle intervention study targeting individuals with low socioeconomic status of different ethnic origins: important aspects for successful implementation. <i>BMC Public Health</i> , <b>2017</b> , 18, 54	4.1	8
31	Dietary proteins improve endothelial function under fasting conditions but not in the postprandial state, with no effects on markers of low-grade inflammation. <i>British Journal of Nutrition</i> , <b>2015</b> , 114, 1819-28	3.6	8
30	Blood pressure decreases more after high-carbohydrate meals than after high-protein meals in overweight adults with elevated blood pressure, but there is no difference after 4 weeks of consuming a carbohydrate-rich or protein-rich diet. <i>Journal of Nutrition</i> , <b>2013</b> , 143, 424-9	4.1	8
29	Submaximal endurance exercise performance during enalapril treatment in patients with essential hypertension. <i>Clinical Pharmacology and Therapeutics</i> , <b>1991</b> , 50, 221-7	6.1	8
28	Effective behavior change techniques to promote physical activity in adults with overweight or obesity: A systematic review and meta-analysis. <i>Obesity Reviews</i> , <b>2021</b> , 22 Suppl 4, e13258	10.6	8

27	Effect of increased protein intake on renal acid load and renal hemodynamic responses. <i>Physiological Reports</i> , <b>2016</b> , 4, e12687	2.6	8
26	The Impact of Gender and Protein Intake on the Success of Weight Maintenance and Associated Cardiovascular Risk Benefits, Independent of the Mode of Food Provision: The DiOGenes Randomized Trial. <i>Journal of the American College of Nutrition</i> , <b>2016</b> , 35, 20-30	3.5	7
25	Combined Analysis of Stress- and ECM-Related Genes in Their Effect on Weight Regain. <i>Obesity</i> , <b>2018</b> , 26, 492-498	8	7
24	Adipose Tissue Meal-Derived Fatty Acid Uptake Before and After Diet-Induced Weight Loss in Adults with Overweight and Obesity. <i>Obesity</i> , <b>2017</b> , 25, 1391-1399	8	7
23	Exercise training in the management of overweight and obesity in adults: Synthesis of the evidence and recommendations from the European Association for the Study of Obesity Physical Activity Working Group. <i>Obesity Reviews</i> , <b>2021</b> , 22 Suppl 4, e13273	10.6	7
22	Genetic Predictors of % Weight Loss by Multidisciplinary Advice to Severely Obese Subjects. <i>Journal of Nutrigenetics and Nutrigenomics</i> , <b>2017</b> , 10, 32-42		6
21	Adapting an effective lifestyle intervention towards individuals with low socioeconomic status of different ethnic origins: the design of the MetSLIM study. <i>BMC Public Health</i> , <b>2015</b> , 15, 125	4.1	6
20	Effectiveness of the MetSLIM lifestyle intervention targeting individuals of low socio-economic status and different ethnic origins with elevated waist-to-height ratio. <i>Public Health Nutrition</i> , <b>2017</b> , 20, 2617-2628	3.3	6
19	Adipose tissue contribution to plasma fibroblast growth factor 21 and fibroblast activation protein in obesity. <i>International Journal of Obesity</i> , <b>2020</b> , 44, 544-547	5.5	6
18	Effect of different types of regular exercise on physical fitness in adults with overweight or obesity: Systematic review and meta-analyses. <i>Obesity Reviews</i> , <b>2021</b> , 22 Suppl 4, e13239	10.6	5
17	Effect of exercise training on psychological outcomes in adults with overweight or obesity: A systematic review and meta-analysis. <i>Obesity Reviews</i> , <b>2021</b> , 22 Suppl 4, e13261	10.6	5
16	Glucose Restriction Plus Refeeding in Vitro Induce Changes of the Human Adipocyte Secretome with an Impact on Complement Factors and Cathepsins. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	4
15	A computational model of postprandial adipose tissue lipid metabolism derived using human arteriovenous stable isotope tracer data. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007400	5	4
14	Adipocyte abundances of CES1, CRYAB, ENO1 and GANAB are modified in-vitro by glucose restriction and are associated with cellular remodelling during weight regain. <i>Adipocyte</i> , <b>2019</b> , 8, 190-200 <sup>2</sup>		4
13	Stratifying cellular metabolism during weight loss: an interplay of metabolism, metabolic flexibility and inflammation. <i>Scientific Reports</i> , <b>2020</b> , 10, 1651	4.9	4
12	24-hour glucose profiles on diets varying in protein content and glycemic index. <i>Nutrients</i> , <b>2014</b> , 6, 3050-61	6.7	4
11	Effect of exercise training interventions on energy intake and appetite control in adults with overweight or obesity: A systematic review and meta-analysis. <i>Obesity Reviews</i> , <b>2021</b> , 22 Suppl 4, e13251	10.6	4
10	Profiling Cellular Processes in Adipose Tissue during Weight Loss Using Time Series Gene Expression. <i>Genes</i> , <b>2018</b> , 9,	4.2	4

9	Twenty-four hour urinary urea excretion and 9-year risk of hypertension: the PREVEND study. <i>Journal of Hypertension</i> , <b>2013</b> , 31, 1564-9	1.9	3
8	Diet Composition, Glucose Homeostasis, and Weight Regain in the YoYo Study. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	2
7	Physical Activity, Weight Loss, and Weight Maintenance in the DiOGenes Multicenter Trial. <i>Frontiers in Nutrition</i> , <b>2021</b> , 8, 683369	6.2	1
6	Dietary carbohydrates and weight loss maintenance. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2021</b> , 24, 354-358	3.8	0
5	The association of changes in body mass index and metabolic parameters between adults with overweight or obesity and their children in a family-based randomized trial (DiOGenes).. <i>Pediatric Obesity</i> , <b>2021</b> , e12884	4.6	0
4	The Role of Protein and Carbohydrates for Long-Term Weight Control: Lessons from the Diogenes Trial. <i>Current Nutrition Reports</i> , <b>2014</b> , 3, 379-386	6	
3	PS1 - 4. Adipose tissue blood flow (ATBF) changes in overweight and obese subjects following rapid and slow weight loss. <i>Nederlands Tijdschrift Voor Diabetologie</i> , <b>2013</b> , 11, 135-135	0	
2	Blood profiling of proteins and steroids during weight maintenance with manipulation of dietary protein level and glycaemic index [CORRIGENDUM]. <i>British Journal of Nutrition</i> , <b>2013</b> , 110, 971-971	3.6	
1	Substrate utilization during submaximal endurance exercise: the effect of β-adrenoceptor blockade and increased plasma nonesterified fatty acid concentration. <i>American Journal of Clinical Nutrition</i> , <b>1993</b> , 57, 823S-823S	7	