Fermin I Milagro

List of Publications by Year
in descending order

251 papers	11,975 citations	29994 54 h-index	37111 96 g-index
256 all docs	256 docs citations	256 times ranked	16394 citing authors

#	Article	IF	Citations
1	Implication of Trimethylamine N-Oxide (TMAO) in Disease: Potential Biomarker or New Therapeutic Target. Nutrients, 2018, 10, 1398.	1.7	403
2	Noncoding RNAs, cytokines, and inflammation-related diseases. FASEB Journal, 2015, 29, 3595-3611.	0.2	386
3	Reshaping faecal gut microbiota composition by the intake of trans-resveratrol and quercetin in high-fat sucrose diet-fed rats. Journal of Nutritional Biochemistry, 2015, 26, 651-660.	1.9	372
4	Adiposoft: automated software for the analysis of white adipose tissue cellularity in histological sections. Journal of Lipid Research, 2012, 53, 2791-2796.	2.0	308
5	Impact of Polyphenols and Polyphenol-Rich Dietary Sources on Gut Microbiota Composition. Journal of Agricultural and Food Chemistry, 2013, 61, 9517-9533.	2.4	306
6	Antidiabetic effects of natural plant extracts via inhibition of carbohydrate hydrolysis enzymes with emphasis on pancreatic alpha amylase. Expert Opinion on Therapeutic Targets, 2012, 16, 269-297.	1.5	290
7	Diet, Gut Microbiota, and Obesity: Links with Host Genetics and Epigenetics and Potential Applications. Advances in Nutrition, 2019, 10, S17-S30.	2.9	255
8	Individuality and epigenetics in obesity. Obesity Reviews, 2009, 10, 383-392.	3.1	243
9	Dietary factors, epigenetic modifications and obesity outcomes: Progresses and perspectives. Molecular Aspects of Medicine, 2013, 34, 782-812.	2.7	242
10	Natural Inhibitors of Pancreatic Lipase as New Players in Obesity Treatment. Planta Medica, 2011, 77, 773-785.	0.7	218
11	A dual epigenomic approach for the search of obesity biomarkers: DNA methylation in relation to dietâ€induced weight loss. FASEB Journal, 2011, 25, 1378-1389.	0.2	199
12	Weight Gain Induced by Highâ€Fat Feeding Involves Increased Liver Oxidative Stress. Obesity, 2006, 14, 1118-1123.	1.5	198
13	High fat diet-induced obesity modifies the methylation pattern of leptin promoter in rats. Journal of Physiology and Biochemistry, 2009, 65, 1-9.	1.3	195
14	CLOCK, PER2 and BMAL1 DNA Methylation: Association with Obesity and Metabolic Syndrome Characteristics and Monounsaturated Fat Intake. Chronobiology International, 2012, 29, 1180-1194.	0.9	165
15	Dietary supplementation with methyl donors reduces fatty liver and modifies the fatty acid synthase DNA methylation profile in rats fed an obesogenic diet. Genes and Nutrition, 2013, 8, 105-113.	1.2	156
16	Leptin and TNF-alpha promoter methylation levels measured by MSP could predict the response to a low-calorie diet. Journal of Physiology and Biochemistry, 2011, 67, 463-470.	1.3	149
17	Epigenetics in Adipose Tissue, Obesity, Weight Loss, and Diabetes. Advances in Nutrition, 2014, 5, 71-81.	2.9	147
18	DNA methylation markers in obesity, metabolic syndrome, and weight loss. Epigenetics, 2019, 14, 421-444.	1.3	140

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19	Resveratrol attenuates steatosis in obese Zucker rats by decreasing fatty acid availability and reducing oxidative stress. British Journal of Nutrition, 2012, 107, 202-210.	1.2	137
20	DNA Microarray Analysis of Genes Differentially Expressed in Dietâ€Induced (Cafeteria) Obese Rats. Obesity, 2003, 11, 188-194.	4.0	136
21	Guide and Position of the International Society of Nutrigenetics/Nutrigenomics on Personalised Nutrition: Part 1 - Fields of Precision Nutrition. Lifestyle Genomics, 2016, 9, 12-27.	0.6	133
22	Differential DNA methylation patterns between high and low responders to a weight loss intervention in overweight or obese adolescents: the EVASYON study. FASEB Journal, 2013, 27, 2504-2512.	0.2	131
23	Healthy properties of proanthocyanidins. BioFactors, 2010, 36, 159-168.	2.6	123
24	Inflammation and gut-brain axis link obesity to cognitive dysfunction: plausible pharmacological interventions. Current Opinion in Pharmacology, 2017, 37, 87-92.	1.7	119
25	Guide for Current Nutrigenetic, Nutrigenomic, and Nutriepigenetic Approaches for Precision Nutrition Involving the Prevention and Management of Chronic Diseases Associated with Obesity. Journal of Nutrigenetics and Nutrigenomics, 2017, 10, 43-62.	1.8	118
26	TNFâ€Î± Promoter Methylation as a Predictive Biomarker for Weightâ€loss Response. Obesity, 2009, 17, 1293-1297.	1.5	110
27	Fatty acids, epigenetic mechanisms and chronic diseases: a systematic review. Lipids in Health and Disease, 2019, 18, 178.	1.2	109
28	Adherence to Mediterranean diet is associated with methylation changes in inflammation-related genes in peripheral blood cells. Journal of Physiology and Biochemistry, 2016, 73, 445-455.	1.3	103
29	Differential Expression of Oxidative Stress and Inflammation Related Genes in Peripheral Blood Mononuclear Cells in Response to a Low-Calorie Diet: A Nutrigenomics Study. OMICS A Journal of Integrative Biology, 2008, 12, 251-261.	1.0	100
30	Transcriptomic and epigenetic changes in early liver steatosis associated to obesity: Effect of dietary methyl donor supplementation. Molecular Genetics and Metabolism, 2013, 110, 388-395.	0.5	100
31	Interplay of early-life nutritional programming on obesity, inflammation and epigenetic outcomes. Proceedings of the Nutrition Society, 2012, 71, 276-283.	0.4	99
32	Therapeutic perspectives of epigenetically active nutrients. British Journal of Pharmacology, 2015, 172, 2756-2768.	2.7	99
33	Diet-induced obesity in animal models: points to consider and influence on metabolic markers. Diabetology and Metabolic Syndrome, 2021, 13, 32.	1.2	98
34	Differential expression of aquaporin 7 in adipose tissue of lean and obese high fat consumers. Biochemical and Biophysical Research Communications, 2006, 339, 785-789.	1.0	97
35	Association of weight regain with specific methylation levels in the NPY and POMC promoters in leukocytes of obese men: A translational study. Regulatory Peptides, 2013, 186, 1-6.	1.9	96
36	Proposed guidelines to evaluate scientific validity and evidence for genotype-based dietary advice. Genes and Nutrition, 2017, 12, 35.	1.2	95

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37	Expanding role for the apelin/APJ system in physiopathology. Journal of Physiology and Biochemistry, 2007, 63, 358-373.	1.3	92
38	MicroRNAs and other non-coding RNAs in adipose tissue and obesity: emerging roles as biomarkers and therapeutic targets. Clinical Science, 2019, 133, 23-40.	1.8	90
39	Adiposity dependent apelin gene expression: relationships with oxidative and inflammation markers. Molecular and Cellular Biochemistry, 2007, 305, 87-94.	1.4	89
40	DNA methylation map in circulating leukocytes mirrors subcutaneous adipose tissue methylation pattern: a genome-wide analysis from non-obese and obese patients. Scientific Reports, 2017, 7, 41903.	1.6	88
41	Pterostilbeneâ€induced changes in gut microbiota composition in relation to obesity. Molecular Nutrition and Food Research, 2017, 61, 1500906.	1.5	88
42	Epigenetics and Obesity. Progress in Molecular Biology and Translational Science, 2010, 94, 291-347.	0.9	81
43	Weight gain induced by an isocaloric pair-fed high fat diet: A nutriepigenetic study on FASN and NDUFB6 gene promoters. Molecular Genetics and Metabolism, 2010, 101, 273-278.	0.5	78
44	TNF-alpha promoter methylation in peripheral white blood cells: Relationship with circulating TNFÎ±, truncal fat and n-6 PUFA intake in young women. Cytokine, 2013, 64, 265-271.	1.4	78
45	Epigenetic signatures underlying inflammation: an interplay of nutrition, physical activity, metabolic diseases, and environmental factors for personalized nutrition. Inflammation Research, 2021, 70, 29-49.	1.6	78
46	Prevention of dietâ€induced obesity by apple polyphenols in <scp>W</scp>istar rats through regulation of adipocyte gene expression and <scp>DNA</scp> methylation patterns. Molecular Nutrition and Food Research, 2013, 57, 1473-1478.	1.5	77
47	Impact of Consuming Extra-Virgin Olive Oil or Nuts within a Mediterranean Diet on DNA Methylation in Peripheral White Blood Cells within the PREDIMED-Navarra Randomized Controlled Trial: A Role for Dietary Lipids. Nutrients, 2018, 10, 15.	1.7	75
48	High-Throughput Sequencing of microRNAs in Peripheral Blood Mononuclear Cells: Identification of Potential Weight Loss Biomarkers. PLoS ONE, 2013, 8, e54319.	1.1	73
49	DNA Methylation and Hydroxymethylation Levels in Relation to Two Weight Loss Strategies: Energy-Restricted Diet or Bariatric Surgery. Obesity Surgery, 2016, 26, 603-611.	1.1	71
50	Circadian Expression of Adiponectin and Its Receptors in Human Adipose Tissue. Endocrinology, 2010, 151, 115-122.	1.4	70
51	Expression of inflammation-related miRNAs in white blood cells from subjects with metabolic syndrome after 8Âwk of following a Mediterranean dietâ€"based weight loss program. Nutrition, 2016, 32, 48-55.	1.1	67
52	Obesity induced by a pair-fed high fat sucrose diet: methylation and expression pattern of genes related to energy homeostasis. Lipids in Health and Disease, 2010, 9, 60.	1.2	61
53	Phenolic Compounds Inhibit 3T3-L1 Adipogenesis Depending on the Stage of Differentiation and Their Binding Affinity to PPARÎ³. Molecules, 2019, 24, 1045.	1.7	61
54	Diferential gene expression and adiposity reduction induced by ascorbic acid supplementation in a cafeteria model of obesity. Journal of Physiology and Biochemistry, 2006, 62, 71-80.	1.3	59

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55	Transcriptomic and Epigenetic Changes in the Hypothalamus Are Involved in an Increased Susceptibility to a High-Fat-Sucrose Diet in Prenatally Stressed Female Rats. Neuroendocrinology, 2012, 96, 249-260.	1.2	58
56	Impact of oxygen availability on body weight management. Medical Hypotheses, 2010, 74, 901-907.	0.8	57
57	Future Perspectives of Personalized Weight Loss Interventions Based on Nutrigenetic, Epigenetic, and Metagenomic Data. Journal of Nutrition, 2016, 146, 905S-912S.	1.3	57
58	LINE-1methylation is positively associated with healthier lifestyle but inversely related to body fat mass in healthy young individuals. Epigenetics, 2016, 11, 49-60.	1.3	56
59	Postbiotics: Metabolites and mechanisms involved in microbiota-host interactions. Trends in Food Science and Technology, 2021, 108, 11-26.	7.8	56
60	A genetic risk tool for obesity predisposition assessment and personalized nutrition implementation based on macronutrient intake. Genes and Nutrition, 2015, 10, 445.	1.2	55
61	Methyl donor supplementation in rats reverses the deleterious effect of maternal separation on depression-like behaviour. Behavioural Brain Research, 2016, 299, 51-58.	1.2	54
62	Effects of exosomes from LPS-activated macrophages on adipocyte gene expression, differentiation, and insulin-dependent glucose uptake. Journal of Physiology and Biochemistry, 2018, 74, 559-568.	1.3	54
63	Expression of cortisol metabolism-related genes shows circadian rhythmic patterns in human adipose tissue. International Journal of Obesity, 2009, 33, 473-480.	1.6	51
64	Gene expression changes in rat white adipose tissue after a high-fat diet determined by differential display. Biochemical and Biophysical Research Communications, 2004, 318, 234-239.	1.0	46
65	Screening of polyphenolic plant extracts for antiâ€obesity properties in Wistar rats. Journal of the Science of Food and Agriculture, 2013, 93, 1226-1232.	1.7	46
66	Chronic mild stress induces variations in locomotive behavior and metabolic rates in high fat fed rats. Journal of Physiology and Biochemistry, 2007, 63, 337-346.	1.3	45
67	Helichrysum and Grapefruit Extracts Inhibit Carbohydrate Digestion and Absorption, Improving Postprandial Glucose Levels and Hyperinsulinemia in Rats. Journal of Agricultural and Food Chemistry, 2013, 61, 12012-12019.	2.4	45
68	Gut Microbiota Differences According to Ultra-Processed Food Consumption in a Spanish Population. Nutrients, 2021, 13, 2710.	1.7	45
69	Vitamin C inhibits leptin secretion and some glucose/lipid metabolic pathways in primary rat adipocytes. Journal of Molecular Endocrinology, 2010, 45, 33-43.	1.1	44
70	DNA Methylation Pattern in Overweight Women under an Energy-Restricted Diet Supplemented with Fish Oil. BioMed Research International, 2014, 2014, 1-10.	0.9	44
71	Effect of DHEA-sulfate on adiponectin gene expression in adipose tissue from different fat depots in morbidly obese humans. European Journal of Endocrinology, 2006, 155, 593-600.	1.9	43
72	Prenatal stress increases the obesogenic effects of a high-fat-sucrose diet in adult rats in a sex-specific manner. Stress, 2013, 16, 220-232.	0.8	43

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73	Differential DNA Methylation in Relation to Age and Health Risks of Obesity. International Journal of Molecular Sciences, 2015, 16, 16816-16832.	1.8	43
74	Relationship among Adiponectin, Adiponectin Gene Expression and Fatty Acids Composition in Morbidly Obese Patients. Obesity Surgery, 2007, 17, 516-524.	1.1	42
75	Chronic benzylamine administration in the drinking water improves glucose tolerance, reduces body weight gain and circulating cholesterol in high-fat diet-fed mice. Pharmacological Research, 2010, 61, 355-363.	3.1	42
76	Obesity and ischemic stroke modulate the methylation levels of KCNQ1 in white blood cells. Human Molecular Genetics, 2015, 24, 1432-1440.	1.4	42
77	PTPRS and PER3 methylation levels are associated with childhood obesity: results from a genomeâ€wide methylation analysis. Pediatric Obesity, 2018, 13, 149-158.	1.4	42
78	Epigenetic Modifications as Outcomes of Exercise Interventions Related to Specific Metabolic Alterations: A Systematic Review. Lifestyle Genomics, 2019, 12, 25-44.	0.6	42
79	Potential Mechanisms Linking Food-Derived MicroRNAs, Gut Microbiota and Intestinal Barrier Functions in the Context of Nutrition and Human Health. Frontiers in Nutrition, 2021, 8, 586564.	1.6	42
80	11-Î² Hydroxysteroid dehydrogenase type 2 expression in white adipose tissue is strongly correlated with adiposity. Journal of Steroid Biochemistry and Molecular Biology, 2007, 104, 81-84.	1.2	41
81	Shifting to a control diet after a high-fat, high-sucrose diet intake induces epigenetic changes in retroperitoneal adipocytes of Wistar rats. Journal of Physiology and Biochemistry, 2013, 69, 601-611.	1.3	41
82	Maternal Methyl Donors Supplementation during Lactation Prevents the Hyperhomocysteinemia Induced by a High-Fat-Sucrose Intake by Dams. International Journal of Molecular Sciences, 2013, 14, 24422-24437.	1.8	40
83	Regulatory roles of miR-155 and let-7b on the expression of inflammation-related genes in THP-1 cells: effects of fatty acids. Journal of Physiology and Biochemistry, 2018, 74, 579-589.	1.3	40
84	Gut Microbiota Bacterial Species Associated with Mediterranean Diet-Related Food Groups in a Northern Spanish Population. Nutrients, 2021, 13, 636.	1.7	40
85	Supplementation with methyl donors during lactation to high-fat-sucrose-fed dams protects offspring against liver fat accumulation when consuming an obesogenic diet. Journal of Developmental Origins of Health and Disease, 2014, 5, 385-395.	0.7	39
86	Involvement of miR-539-5p in the inhibition of de novo lipogenesis induced by resveratrol in white adipose tissue. Food and Function, 2016, 7, 1680-1688.	2.1	39
87	Folic Acid Improves the Inflammatory Response in LPS-Activated THP-1 Macrophages. Mediators of Inflammation, 2018, 2018, 1-8.	1.4	39
88	Epigenome-wide association study in peripheral white blood cells involving insulin resistance. Scientific Reports, 2019, 9, 2445.	1.6	39
89	Kefir and Intestinal Microbiota Modulation: Implications in Human Health. Frontiers in Nutrition, 2021, 8, 638740.	1.6	39
90	Influence of dietary macronutrient composition on adiposity and cellularity of different fat depots in Wistar rats. Journal of Physiology and Biochemistry, 2009, 65, 387-395.	1.3	37

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91	Precision Obesity Treatments Including Pharmacogenetic and Nutrigenetic Approaches. Trends in Pharmacological Sciences, 2016, 37, 575-593.	4.0	36
92	FTO Obesity Variant and Adipocyte Browning in Humans. New England Journal of Medicine, 2016, 374, 190-193.	13.9	36
93	Freeze-dried strawberry and blueberry attenuates diet-induced obesity and insulin resistance in rats by inhibiting adipogenesis and lipogenesis. Food and Function, 2017, 8, 3999-4013.	2.1	36
94	Interaction Among Sex, Aging, and Epigenetic Processes Concerning Visceral Fat, Insulin Resistance, and Dyslipidaemia. Frontiers in Endocrinology, 2019, 10, 496.	1.5	36
95	A predictive regression model of the obesity-related inflammatory status based on gut microbiota composition. International Journal of Obesity, 2021, 45, 2261-2268.	1.6	36
96	The rs9939609 Polymorphism in the <i>FTO</i> Gene Is Associated with Fat and Fiber Intakes in Patients with Type 2 Diabetes. Journal of Nutrigenetics and Nutrigenomics, 2013, 6, 97-106.	1.8	35
97	Effect of TNF-Alpha on Caveolin-1 Expression and Insulin Signaling During Adipocyte Differentiation and in Mature Adipocytes. Cellular Physiology and Biochemistry, 2015, 36, 1499-1516.	1.1	35
98	Postnatal maternal separation modifies the response to an obesogenic diet in adulthood. DMM Disease Models and Mechanisms, 2012, 5, 691-7.	1.2	34
99	<i>SH2B1</i> CpG-SNP Is Associated with Body Weight Reduction in Obese Subjects Following a Dietary Restriction Program. Annals of Nutrition and Metabolism, 2015, 66, 1-9.	1.0	34
100	Future Challenges and Present Ethical Considerations in the Use of Personalized Nutrition Based on GeneticÂAdvice. Journal of the Academy of Nutrition and Dietetics, 2013, 113, 1447-1454.	0.4	33
101	Effect of hypoxia on caveolae-related protein expression and insulin signaling in adipocytes. Molecular and Cellular Endocrinology, 2018, 473, 257-267.	1.6	33
102	High-fat feeding period affects gene expression in rat white adipose tissue. Molecular and Cellular Biochemistry, 2005, 275, 109-115.	1.4	32
103	SelenoproteinâEP is downâEregulated in prostate cancer, which results in lack of protection against oxidative damage. Prostate, 2011, 71, 824-834.	1.2	32
104	LINE-1 methylation levels, a biomarker of weight loss in obese subjects, are influenced by dietary antioxidant capacity. Redox Report, 2016, 21, 67-74.	1.4	32
105	DNA methylation of miRNA coding sequences putatively associated with childhood obesity. Pediatric Obesity, 2017, 12, 19-27.	1.4	32
106	DNA methylation in genes of longevity-regulating pathways: association with obesity and metabolic complications. Aging, 2019, 11, 1874-1899.	1.4	32
107	Vitamin C Supplementation Influences Body Fat Mass and Steroidogenesis-Related Genes when Fed a High-Fat Diet. International Journal for Vitamin and Nutrition Research, 2008, 78, 87-95.	0.6	31
108	Single-nucleotide polymorphisms and DNA methylation markers associated with central obesity and regulation of body weight. Nutrition Reviews, 2014, 72, 673-690.	2.6	31

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109	Circadian gene methylation profiles are associated with obesity, metabolic disturbances and carbohydrate intake. Chronobiology International, 2018, 35, 969-981.	0.9	31
110	Effects of gut microbiotaâ€“derived extracellular vesicles on obesity and diabetes and their potential modulation through diet. Journal of Physiology and Biochemistry, 2022, 78, 485-499.	1.3	31
111	Epigenetic patterns of two gene promoters (TNF-Î± and PON) in stroke considering obesity condition and dietary intake. Journal of Physiology and Biochemistry, 2014, 70, 603-614.	1.3	30
112	Effect of the interaction between diet composition and the PPM1K genetic variant on insulin resistance and Î² cell function markers during weight loss: results from the Nutrient Gene Interactions in Human Obesity: implications for dietary guidelines (NUGENOB) randomized trial. American Journal of Clinical Nutrition, 2017, 106, 902-908.	2.2	29
113	Dopamine gene methylation patterns are associated with obesity markers and carbohydrate intake. Brain and Behavior, 2018, 8, e01017.	1.0	29
114	Association between Sleep Disturbances and Liver Status in Obese Subjects with Nonalcoholic Fatty Liver Disease: A Comparison with Healthy Controls. Nutrients, 2019, 11, 322.	1.7	29
115	One-Carbon Metabolism and Nonalcoholic Fatty Liver Disease: The Crosstalk between Nutrients, Microbiota, and Genetics. Lifestyle Genomics, 2020, 13, 53-63.	0.6	29
116	Shifts in microbiota species and fermentation products in a dietary model enriched in fat and sucrose. Beneficial Microbes, 2015, 6, 97-111.	1.0	28
117	Interaction between an ADCY3 Genetic Variant and Two Weight-Lowering Diets Affecting Body Fatness and Body Composition Outcomes Depending on Macronutrient Distribution: A Randomized Trial. Nutrients, 2018, 10, 789.	1.7	28
118	Sex-Specific Associations between Gut Prevotellaceae and Host Genetics on Adiposity. Microorganisms, 2020, 8, 938.	1.6	28
119	Circulating adiposityâ€related microRNAs as predictors of the response to a lowâ€fat diet in subjects with obesity. Journal of Cellular and Molecular Medicine, 2020, 24, 2956-2967.	1.6	27
120	Ascorbic acid oral treatment modifies lipolytic response and behavioural activity but not glucocorticoid metabolism in cafeteria dietâ€fed rats. Acta Physiologica, 2009, 195, 449-457.	1.8	26
121	Methylation on the Circadian Gene BMAL1 Is Associated with the Effects of a Weight Loss Intervention on Serum Lipid Levels. Journal of Biological Rhythms, 2016, 31, 308-317.	1.4	26
122	Regulation by chronic-mild stress of glucocorticoids, monocyte chemoattractant protein-1 and adiposity in rats fed on a high-fat diet. Physiology and Behavior, 2011, 103, 173-180.	1.0	25
123	Modulation of hyperglycemia and TNFÎ±-mediated inflammation by helichrysum and grapefruit extracts in diabetic db/db mice. Food and Function, 2014, 5, 2120-2128.	2.1	25
124	Peripheral blood mononuclear cell gene expression profile in obese boys who followed a moderate energy-restricted diet: differences between high and low responders at baseline and after the intervention. British Journal of Nutrition, 2015, 113, 331-342.	1.2	25
125	Gene-Gene Interplay and Gene-Diet Interactions Involving the MTNR1B rs10830963 Variant with Body Weight Loss. Journal of Nutrigenetics and Nutrigenomics, 2015, 7, 232-242.	1.8	25
126	Differential lipid metabolism outcomes associated with ADRB2 gene polymorphisms in response to two dietary interventions in overweight/obese subjects. Nutrition, Metabolism and Cardiovascular Diseases, 2018, 28, 165-172.	1.1	25

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127	DNA methylation patterns at sweet taste transducing genes are associated with BMI and carbohydrate intake in an adult population. Appetite, 2018, 120, 230-239.	1.8	25
128	A High-Sucrose Isocaloric Pair-Fed Model Induces Obesity and Impairs NDUFB6 Gene Function in Rat Adipose Tissue. Journal of Nutrigenetics and Nutrigenomics, 2009, 2, 267-272.	1.8	24
129	Microencapsulated Bifidobacterium bifidum and Lactobacillus gasseri in Combination with Quercetin Inhibit Colorectal Cancer Development in ApcMin/+ Mice. International Journal of Molecular Sciences, 2021, 22, 4906.	1.8	24
130	Metabolic faecal fingerprinting of trans-resveratrol and quercetin following a high-fat sucrose dietary model using liquid chromatography coupled to high-resolution mass spectrometry. Food and Function, 2015, 6, 2758-2767.	2.1	23
131	Associations between olfactory pathway gene methylation marks, obesity features and dietary intakes. Genes and Nutrition, 2019, 14, 11.	1.2	23
132	Phenolic Compounds Reduce the Fat Content in Caenorhabditis elegans by Affecting Lipogenesis, Lipolysis, and Different Stress Responses. Pharmaceuticals, 2020, 13, 355.	1.7	23
133	Expression of Caveolin 1 Is Enhanced by DNA Demethylation during Adipocyte Differentiation. Status of Insulin Signaling. PLoS ONE, 2014, 9, e95100.	1.1	23
134	Epigenetic Changes in the Methylation Patterns of KCNQ1 and WT1 after a Weight Loss Intervention Program in Obese Stroke Patients. Current Neurovascular Research, 2015, 12, 321-333.	0.4	23
135	Association of low dietary folate intake with lower CAMKK2 gene methylation, adiposity, and insulin resistance in obese subjects. Nutrition Research, 2018, 50, 53-62.	1.3	22
136	DNA methylation signatures at endoplasmic reticulum stress genes are associated with adiposity and insulin resistance. Molecular Genetics and Metabolism, 2018, 123, 50-58.	0.5	22
137	DNA methylation in promoter regions of genes involved in the reproductive and metabolic function of children born to women with PCOS. Epigenetics, 2020, 15, 1178-1194.	1.3	22
138	Epigenetic landscape in blood leukocytes following ketosis and weight loss induced by a very low calorie ketogenic diet (VLCKD) in patients with obesity. Clinical Nutrition, 2021, 40, 3959-3972.	2.3	22
139	Effects of high glucose on caveolin-1 and insulin signaling in 3T3-L1 adipocytes. Adipocyte, 2016, 5, 65-80.	1.3	21
140	Modeling of an integrative prototype based on genetic, phenotypic, and environmental information for personalized prescription of energy-restricted diets in overweight/obese subjects. American Journal of Clinical Nutrition, 2020, 111, 459-470.	2.2	21
141	Comprehensive Analysis Reveals Novel Interactions between Circulating MicroRNAs and Gut Microbiota Composition in Human Obesity. International Journal of Molecular Sciences, 2020, 21, 9509.	1.8	20
142	Site-specific circadian expression of leptin and its receptor in human adipose tissue. Nutricion Hospitalaria, 2011, 26, 1394-401.	0.2	20
143	Vitamin C modulates the interaction between adipocytes and macrophages. Molecular Nutrition and Food Research, 2011, 55, S257-63.	1.5	19
144	Dietary supplementation with methyl donor groups could prevent nonalcoholic fatty liver. Hepatology, 2011, 53, 2151-2152.	3.6	19

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145	LINE-1 and inflammatory gene methylation levels are early biomarkers of metabolic changes: association with adiposity. Biomarkers, 2016, 21, 625-632.	0.9	19
146	Broccoli extract improves high fat diet-induced obesity, hepatic steatosis and glucose intolerance in Wistar rats. Journal of Functional Foods, 2019, 59, 319-328.	1.6	19
147	Insulin effect on adipose tissue (AT) adiponectin expression is regulated by the insulin resistance status of the patients. Clinical Endocrinology, 2008, 69, 412-417.	1.2	18
148	Caveolin expression and activation in retroperitoneal and subcutaneous adipocytes: Influence of a highâ€fat diet. Journal of Cellular Physiology, 2010, 225, 206-213.	2.0	18
149	Helichrysum and Grapefruit Extracts Boost Weight Loss in Overweight Rats Reducing Inflammation. Journal of Medicinal Food, 2015, 18, 890-898.	0.8	18
150	Genetics of weight loss: A basis for personalized obesity management. Trends in Food Science and Technology, 2015, 42, 97-115.	7.8	18
151	Association of the Gly482Ser PPARGC1A gene variant with different cholesterol outcomes in response to two energy-restricted diets in subjects with excessive weight. Nutrition, 2018, 47, 83-89.	1.1	18
152	Implication of miR-612 and miR-1976 in the regulation of TP53 and CD40 and their relationship in the response to specific weight-loss diets. PLoS ONE, 2018, 13, e0201217.	1.1	18
153	Some Cyclin-Dependent Kinase Inhibitors-Related Genes Are Regulated by Vitamin C in a Model of Diet-Induced Obesity. Biological and Pharmaceutical Bulletin, 2009, 32, 1462-1468.	0.6	17
154	Effects of the Oral Administration of a Î²3-Adrenergic Agonist on Lipid Metabolism in Alloxan-Diabetic Rats. Journal of Pharmacy and Pharmacology, 2010, 52, 851-856.	1.2	17
155	Effects of Trecadrine, a Î²3-Adrenergic Agonist, on Intestinal Absorption of d-Galactose and Disaccharidase Activities in Three Physiopathological Models. Journal of Pharmacy and Pharmacology, 2011, 49, 873-877.	1.2	17
156	Techniques of DNA Methylation Analysis with Nutritional Applications. Journal of Nutrigenetics and Nutrigenomics, 2013, 6, 83-96.	1.8	17
157	Do the Effects of Resveratrol on Thermogenic and Oxidative Capacities in IBAT and Skeletal Muscle Depend on Feeding Conditions?. Nutrients, 2018, 10, 1446.	1.7	17
158	Reduction in energy efficiency induced by expression of the uncoupling protein, UCP1, in mouse liver mitochondria. International Journal of Molecular Medicine, 2006, 17, 591-7.	1.8	17
159	Potential anti-diabetic applications of a new molecule with affinity for Î²3-Adrenoceptors. Life Sciences, 1996, 59, PL141-PL146.	2.0	16
160	Genetic Manipulation in Nutrition, Metabolism, and Obesity Research. Nutrition Reviews, 2004, 62, 321-330.	2.6	16
161	Endoplasmic reticulum stress epigenetics is related to adiposity, dyslipidemia, and insulin resistance. Adipocyte, 2018, 7, 1-6.	1.3	16
162	Prediction of Blood Lipid Phenotypes Using Obesity-Related Genetic Polymorphisms and Lifestyle Data in Subjects with Excessive Body Weight. International Journal of Genomics, 2018, 2018, 1-10.	0.8	16

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163	Trimethylamine N-oxide (TMAO) drives insulin resistance and cognitive deficiencies in a senescence accelerated mouse model. Mechanisms of Ageing and Development, 2022, 204, 111668.	2.2	16
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165	An integrated transcriptomic and epigenomic analysis identifies CD44 gene as a potential biomarker for weight loss within an energy-restricted program. European Journal of Nutrition, 2019, 58, 1971-1980.	1.8	15
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