Concepcion M Aguilera

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers2,960
citations29
h-index51
g-index133
ext. papers3,556
ext. citations4.8
avg, IF5.17
L-index

#	Paper	IF	Citations
119	Exercise-induced changes on exerkines that might influence brown adipose tissue metabolism in young sedentary adults <i>European Journal of Sport Science</i> , 2022 , 1-53	3.9	O
118	Fitness Levels and Gender Are Related With the Response of Plasma Adipokines and Inflammatory Cytokines in Prepubertal Children <i>Frontiers in Nutrition</i> , 2022 , 9, 883871	6.2	О
117	Prepubertal Children With Metabolically Healthy Obesity or Overweight Are More Active Than Their Metabolically Unhealthy Peers Irrespective of Weight Status: GENOBOX Study <i>Frontiers in Nutrition</i> , 2022 , 9, 821548	6.2	
116	A larger brown fat volume and lower radiodensity are related to a greater cardiometabolic risk, especially in young men. <i>European Journal of Endocrinology</i> , 2022 , 187, 171-183	6.5	1
115	Human Multi-omics Data Pre-processing for Predictive Purposes Using Machine Learning: A Case Study in Childhood Obesity. <i>Lecture Notes in Computer Science</i> , 2022 , 359-374	0.9	O
114	Gene Expression Profiles of Visceral and Subcutaneous Adipose Tissues in Children with Overweight or Obesity: The KIDADIPOSEQ Project. Lecture Notes in Computer Science, 2022, 42-46	0.9	
113	Association of Diet, Physical Activity Guidelines and Cardiometabolic Risk Markers in Children. <i>Nutrients</i> , 2021 , 13, 2954	6.7	1
112	The Vitamin D Decrease in Children with Obesity Is Associated with the Development of Insulin Resistance during Puberty: The PUBMEP Study <i>Nutrients</i> , 2021 , 13,	6.7	1
111	Association of Diet, Physical Activity Guidelines and Cardiometabolic Risk Markers in Children. <i>Nutrients</i> , 2021 , 13,	6.7	1
110	Evaluation of Sedentary Behavior and Physical Activity Levels Using Different Accelerometry Protocols in Children from the GENOBOX Study. <i>Sports Medicine - Open</i> , 2021 , 7, 86	6.1	0
109	Impact of Physical Activity Intensity Levels on the Cardiometabolic Risk Status of Children: The Genobox Study. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2021 , 1-9	4.4	O
108	Adipose Extracellular Matrix Remodeling in Obesity and Insulin Resistance 2021, 215-229		
107	Distinct whole-blood transcriptome profile of children with metabolic healthy overweight/obesity compared to metabolic unhealthy overweight/obesity. <i>Pediatric Research</i> , 2021 , 89, 1687-1694	3.2	6
106	Omics Approaches in Adipose Tissue and Skeletal Muscle Addressing the Role of Extracellular Matrix in Obesity and Metabolic Dysfunction. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	7
105	Cardiometabolic Risk is Positively Associated with Underreporting and Inversely Associated with Overreporting of Energy Intake Among European Adolescents: The Healthy Lifestyle in Europe by Nutrition in Adolescence (HELENA) Study. <i>Journal of Nutrition</i> , 2021 , 151, 675-684	4.1	1
104	Relationship between Physical Activity, Oxidative Stress, and Total Plasma Antioxidant Capacity in Spanish Children from the GENOBOX Study. <i>Antioxidants</i> , 2021 , 10,	7.1	2
103	Evaluation of the gut microbiota after metformin intervention in children with obesity: A metagenomic study of a randomized controlled trial. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 134, 111	17 7	4

(2020-2021)

102	Elevated plasma succinate levels are linked to higher cardiovascular disease risk factors in young adults. <i>Cardiovascular Diabetology</i> , 2021 , 20, 151	8.7	2
101	Cluster Analysis of Physical Activity Patterns, and Relationship with Sedentary Behavior and Healthy Lifestyles in Prepubertal Children: Genobox Cohort. <i>Nutrients</i> , 2020 , 12,	6.7	11
100	Evaluation of the Predictive Ability, Environmental Regulation and Pharmacogenetics Utility of a BMI-Predisposing Genetic Risk Score during Childhood and Puberty. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	1
99	Metabolic syndrome before puberty: Myth or reality?. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2020 , 14, 97-103	1.7	
98	The protein S100A4 as a novel marker of insulin resistance in prepubertal and pubertal children with obesity. <i>Metabolism: Clinical and Experimental</i> , 2020 , 105, 154187	12.7	12
97	Energy Dense Salty Food Consumption Frequency Is Associated with Diastolic Hypertension in Spanish Children. <i>Nutrients</i> , 2020 , 12,	6.7	3
96	Changes in Physical Activity Patterns from Childhood to Adolescence: Genobox Longitudinal Study. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	6
95	Dietary Patterns and Their Association with Body Composition and Cardiometabolic Markers in Children and Adolescents: Genobox Cohort. <i>Nutrients</i> , 2020 , 12,	6.7	8
94	Antioxidants and Oxidative Stress in Children: Influence of Puberty and Metabolically Unhealthy Status. <i>Antioxidants</i> , 2020 , 9,	7.1	9
93	Endocrine Mechanisms Connecting Exercise to Brown Adipose Tissue Metabolism: a Human Perspective. <i>Current Diabetes Reports</i> , 2020 , 20, 40	5.6	4
92	Serum 25-hydroxyvitamin D levels and its relationship with sex hormones, puberty and obesity degree in children and adolescents. <i>Child and Adolescent Obesity</i> , 2020 , 3, 150-169	1.1	1
91	A Multi-Omics Approach Reveals New Signatures in Obese Allergic Asthmatic Children. <i>Biomedicines</i> , 2020 , 8,	4.8	4
90	Genetics of Lactose Intolerance: An Updated Review and Online Interactive World Maps of Phenotype and Genotype Frequencies. <i>Nutrients</i> , 2020 , 12,	6.7	18
89	Inflammatory markers and bone mass in children with overweight/obesity: the role of muscular fitness. <i>Pediatric Research</i> , 2020 , 87, 42-47	3.2	3
88	eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research. <i>PLoS Computational Biology</i> , 2020 , 16, e1007792	5	20
87	eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research 2020 , 16, e1007792		
86	eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research 2020 , 16, e1007792		
85	eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research 2020 , 16, e1007792		

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83	Common Variants in 22 Genes Regulate Response to Metformin Intervention in Children with Obesity: A Pharmacogenetic Study of a Randomized Controlled Trial. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	3
82	Extracellular Matrix Remodeling of Adipose Tissue in Obesity and Metabolic Diseases. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	69
81	ANGPTL-4 is Associated with Obesity and Lipid Profile in Children and Adolescents. <i>Nutrients</i> , 2019 , 11,	6.7	8
80	Identification and functional analysis of missense mutations in the lecithin cholesterol acyltransferase gene in a Chilean patient with hypoalphalipoproteinemia. <i>Lipids in Health and Disease</i> , 2019 , 18, 132	4.4	5
79	Effects of X-chromosome Tenomodulin Genetic Variants on Obesity in a Childrenß Cohort and Implications of the Gene in Adipocyte Metabolism. <i>Scientific Reports</i> , 2019 , 9, 3979	4.9	6
78	Inflammatory biomarkers and brain health indicators in children with overweight and obesity: The ActiveBrains project. <i>Brain, Behavior, and Immunity</i> , 2019 , 81, 588-597	16.6	9
77	X chromosome genetic data in a Spanish children cohort, dataset description and analysis pipeline. <i>Scientific Data</i> , 2019 , 6, 130	8.2	2
76	Vitamin D Food Fortification and Nutritional Status in Children: A Systematic Review of Randomized Controlled Trials. <i>Nutrients</i> , 2019 , 11,	6.7	4
75	Circulating miRNAs as Biomarkers of Obesity and Obesity-Associated Comorbidities in Children and Adolescents: A Systematic Review. <i>Nutrients</i> , 2019 , 11,	6.7	28
74	Sedentarism, Physical Activity, Steps, and Neurotrophic Factors in Obese Children. <i>Medicine and Science in Sports and Exercise</i> , 2019 , 51, 2325-2333	1.2	13
73	Evidence of high F-fluorodeoxyglucose uptake in the subcutaneous adipose tissue of the dorsocervical area in young adults. <i>Experimental Physiology</i> , 2019 , 104, 168-173	2.4	6
72	Activation of Human Brown Adipose Tissue by Capsinoids, Catechins, Ephedrine, and Other Dietary Components: A Systematic Review. <i>Advances in Nutrition</i> , 2019 , 10, 291-302	10	14
71	Cardiovascular risk biomarkers and metabolically unhealthy status in prepubertal children: Comparison of definitions. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2018 , 28, 524-530	4.5	18
70	25-Hydroxyvitamin D levels of children are inversely related to adiposity assessed by body mass index. <i>Journal of Physiology and Biochemistry</i> , 2018 , 74, 111-118	5	16
69	Genetic Factors and Molecular Mechanisms of Vitamin D and Obesity Relationship. <i>Annals of Nutrition and Metabolism</i> , 2018 , 73, 89-99	4.5	30
68	Oxidative Stress and Inflammation in Dbesity and Metabolic Syndrome 2018 , 1-15		3
67	Fatty acid status and antioxidant defense system in mothers and their newborns after salmon intake during late pregnancy. <i>Nutrition</i> , 2017 , 33, 157-162	4.8	7

(2015-2017)

66	Metformin for Obesity in Prepubertal and Pubertal Children: A Randomized Controlled Trial. <i>Pediatrics</i> , 2017 , 140,	7.4	37
65	Is There a Role for Metformin in the Treatment of Childhood Obesity?. <i>Pediatrics</i> , 2017 , 140,	7.4	7
64	Authors Response. <i>Pediatrics</i> , 2017 , 140,	7.4	
63	A serum metabolomics-driven approach predicts orange juice consumption and its impact on oxidative stress and inflammation in subjects from the BIONAOS study. <i>Molecular Nutrition and Food Research</i> , 2017 , 61, 1600120	5.9	25
62	Leptin Receptor Gene Variant rs11804091 Is Associated with BMI and Insulin Resistance in Spanish Female Obese Children: A Case-Control Study. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	15
61	A new fructose-free, resistant-starch type IV-enriched enteral formula improves glycaemic control and cardiovascular risk biomarkers when administered for six weeks to elderly diabetic patients. Nutricion Hospitalaria, 2017, 34, 73-80	1	6
60	An exercise-based randomized controlled trial on brain, cognition, physical health and mental health in overweight/obese children (ActiveBrains project): Rationale, design and methods. <i>Contemporary Clinical Trials</i> , 2016 , 47, 315-24	2.3	59
59	Strong Associations Exist among Oxidative Stress and Antioxidant Biomarkers in the Circulating, Cellular and Urinary Anatomical Compartments in Guatemalan Children from the Western Highlands. <i>PLoS ONE</i> , 2016 , 11, e0146921	3.7	7
58	Impact of 3-Amino-1,2,4-Triazole (3-AT)-Derived Increase in Hydrogen Peroxide Levels on Inflammation and Metabolism in Human Differentiated Adipocytes. <i>PLoS ONE</i> , 2016 , 11, e0152550	3.7	23
57	Cell Models and Their Application for Studying Adipogenic Differentiation in Relation to Obesity: A Review. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	177
56	Interaction of Giardia intestinalis and Systemic Oxidation in Preschool Children in the Western Highlands of Guatemala. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2016 , 63, 118-22	2.8	4
55	Evaluation of differential effects of metformin treatment in obese children according to pubertal stage and genetic variations: study protocol for a randomized controlled trial. <i>Trials</i> , 2016 , 17, 323	2.8	6
54	An analogue of atrial natriuretic peptide (C-ANP4-23) modulates glucose metabolism in human differentiated adipocytes. <i>Molecular and Cellular Endocrinology</i> , 2016 , 431, 101-8	4.4	4
53	Genome-wide expression in visceral adipose tissue from obese prepubertal children. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 7723-37	6.3	39
52	Normal or High Polyphenol Concentration in Orange Juice Affects Antioxidant Activity, Blood Pressure, and Body Weight in Obese or Overweight Adults. <i>Journal of Nutrition</i> , 2015 , 145, 1808-16	4.1	83
51	A Continuous Metabolic Syndrome Score Is Associated with Specific Biomarkers of Inflammation and CVD Risk in Prepubertal Children. <i>Annals of Nutrition and Metabolism</i> , 2015 , 66, 72-9	4.5	31
50	A Systematic Review of the Efficacy of Bioactive Compounds in Cardiovascular Disease: Carbohydrates, Active Lipids and Nitrogen Compounds. <i>Annals of Nutrition and Metabolism</i> , 2015 , 66, 168-181	4.5	16
49	Activating brown adipose tissue through exercise (ACTIBATE) in young adults: Rationale, design and methodology. <i>Contemporary Clinical Trials</i> , 2015 , 45, 416-425	2.3	65

48	Role of Exercise in the Activation of Brown Adipose Tissue. <i>Annals of Nutrition and Metabolism</i> , 2015 , 67, 21-32	4.5	62
47	Variation in hydration status within the normative range is associated with urinary biomarkers of systemic oxidative stress in Guatemalan preschool children. <i>American Journal of Clinical Nutrition</i> , 2015 , 102, 865-72	7	5
46	RE: Association between habitual physical activity and brown adipose tissue activity in individuals undergoing PET-CT scan. <i>Clinical Endocrinology</i> , 2015 , 83, 590-1	3.4	4
45	A Systematic Review of the Efficacy of Bioactive Compounds in Cardiovascular Disease: Phenolic Compounds. <i>Nutrients</i> , 2015 , 7, 5177-216	6.7	94
44	Associations among Inflammatory Biomarkers in the Circulating, Plasmatic, Salivary and Intraluminal Anatomical Compartments in Apparently Healthy Preschool Children from the Western Highlands of Guatemala. <i>PLoS ONE</i> , 2015 , 10, e0129158	3.7	9
43	Mutual Interactions among Anti-oxidative Nutrients, Antioxidant Enzymes and Urinary Biomarkers of Oxidative Stress in Guatemalan Preschoolers in the Western Highlands. <i>FASEB Journal</i> , 2015 , 29, 760.	A ^{.9}	
42	Changes in Oxidative Stress and Inflammatory Biomarkers in Fragile Adults over Fifty Years of Age and in Elderly People Exclusively Fed Enteral Nutrition. <i>Oxidative Medicine and Cellular Longevity</i> , 2015 , 2015, 5709312	6.7	1
41	Effect of two bakery products on short-term food intake and gut-hormones in young adults: a pilot study. <i>International Journal of Food Sciences and Nutrition</i> , 2015 , 67, 562-70	3.7	5
40	Genetics of oxidative stress in obesity. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 3118-44	6.3	48
39	Association of genetic polymorphisms for glutathione peroxidase genes with obesity in Spanish children. <i>Journal of Nutrigenetics and Nutrigenomics</i> , 2014 , 7, 130-42		19
38	Waist-to-height ratio, inflammation and CVD risk in obese children. <i>Public Health Nutrition</i> , 2014 , 17, 2378-85	3.3	29
37	Are catalase -844A/G polymorphism and activity associated with childhood obesity?. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 1970-5	8.4	20
36	Influence of FTO variants on obesity, inflammation and cardiovascular disease risk biomarkers in Spanish children: a case-control multicentre study. <i>BMC Medical Genetics</i> , 2013 , 14, 123	2.1	31
35	Influence of variants in the NPY gene on obesity and metabolic syndrome features in Spanish children. <i>Peptides</i> , 2013 , 45, 22-7	3.8	25
34	Changes in plasma adipokines in prepubertal children with a history of extrauterine growth restriction. <i>Nutrition</i> , 2013 , 29, 1321-5	4.8	9
33	Paraoxonase 1 activities and genetic variation in childhood obesity. <i>British Journal of Nutrition</i> , 2013 , 110, 1639-47	3.6	26
32	Biochemical characterization of the bifunctional enzyme dihydrofolate reductase-thymidylate synthase from Leishmania (Viannia) and its evaluation as a drug target. <i>Biomedica</i> , 2013 , 33, 393-401	0.9	9
31	Genetic susceptibility to obesity and metabolic syndrome in childhood. <i>Nutricion Hospitalaria</i> , 2013 , 28 Suppl 5, 44-55	1	17

(2008-2012)

30	Bioactive anti-obesity food components. <i>International Journal for Vitamin and Nutrition Research</i> , 2012 , 82, 148-56	1.7	15
29	Myeloperoxidase is an early biomarker of inflammation and cardiovascular risk in prepubertal obese children. <i>Diabetes Care</i> , 2012 , 35, 2373-6	14.6	68
28	Omega-3 long-chain polyunsaturated fatty acids supplementation on inflammatory biomakers: a systematic review of randomised clinical trials. <i>British Journal of Nutrition</i> , 2012 , 107 Suppl 2, S159-70	3.6	175
27	A gene variant of 11Ehydroxysteroid dehydrogenase type 1 is associated with obesity in children. <i>International Journal of Obesity</i> , 2012 , 36, 1558-63	5.5	12
26	Plasma inflammatory and vascular homeostasis biomarkers increase during human pregnancy but are not affected by oily fish intake. <i>Journal of Nutrition</i> , 2012 , 142, 1191-6	4.1	14
25	Does consumption of two portions of salmon per week enhance the antioxidant defense system in pregnant women?. <i>Antioxidants and Redox Signaling</i> , 2012 , 16, 1401-6	8.4	16
24	Is adipose tissue metabolically different at different sites?. <i>Pediatric Obesity</i> , 2011 , 6 Suppl 1, 13-20		71
23	Fasting and postprandial adiponectin alterations anticipate NEFA and TNF-Ethanges in prepubertal obese children. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2011 , 21, 62-8	4.5	8
22	Presence of the metabolic syndrome in obese children at prepubertal age. <i>Annals of Nutrition and Metabolism</i> , 2011 , 58, 343-50	4.5	43
21	The Salmon in Pregnancy Study: study design, subject characteristics, maternal fish and marine n-3 fatty acid intake, and marine n-3 fatty acid status in maternal and umbilical cord blood. <i>American Journal of Clinical Nutrition</i> , 2011 , 94, 1986S-1992S	7	60
20	Experimental Models of Oxidative Stress Related to Cardiovascular Diseases and Diabetes 2011 , 39-60		
19	Inhibition of N-cadherin retards smooth muscle cell migration and intimal thickening via induction of apoptosis. <i>Journal of Vascular Surgery</i> , 2010 , 52, 1301-9	3.5	33
18	A specific protein-enriched enteral formula decreases cortisolemia and improves plasma albumin and amino acid concentrations in elderly patients. <i>Nutrition and Metabolism</i> , 2010 , 7, 58	4.6	5
17	Influence of an eicosapentaenoic and docosahexaenoic acid-enriched enteral nutrition formula on plasma fatty acid composition and biomarkers of insulin resistance in the elderly. <i>Clinical Nutrition</i> , 2010 , 29, 31-7	5.9	20
16	Fasting and postprandial relationships among plasma leptin, ghrelin, and insulin in prepubertal obese children. <i>Clinical Nutrition</i> , 2010 , 29, 54-9	5.9	23
15	Low tissue inhibitor of metalloproteinases 3 and high matrix metalloproteinase 14 levels defines a subpopulation of highly invasive foam-cell macrophages. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 1647-53	9.4	62
14	Alterations in plasma and tissue lipids associated with obesity and metabolic syndrome. <i>Clinical Science</i> , 2008 , 114, 183-93	6.5	69
13	Metabolic syndrome affects fatty acid composition of plasma lipids in obese prepubertal children. <i>Lipids</i> , 2008 , 43, 723-32	1.6	29

12	Development of insulin resistance and its relation to diet in the obese child. <i>European Journal of Nutrition</i> , 2007 , 46, 181-7	5.2	37
11	Altered signalling and gene expression associated with the immune system and the inflammatory response in obesity. <i>British Journal of Nutrition</i> , 2007 , 98 Suppl 1, S121-6	3.6	80
10	Ghrelin: a hormone regulating food intake and energy homeostasis. <i>British Journal of Nutrition</i> , 2006 , 96, 201-26	3.6	138
9	Monounsaturated and omega-3 but not omega-6 polyunsaturated fatty acids improve hepatic fibrosis in hypercholesterolemic rabbits. <i>Nutrition</i> , 2005 , 21, 363-71	4.8	13
8	Sunflower oil does not protect against LDL oxidation as virgin olive oil does in patients with peripheral vascular disease. <i>Clinical Nutrition</i> , 2004 , 23, 673-81	5.9	63
7	Relationship between type IV collagen degradation, metalloproteinase activity and smooth muscle cell migration and proliferation in cultured human saphenous vein. <i>Cardiovascular Research</i> , 2003 , 58, 679-88	9.9	41
6	Oral administration of a turmeric extract inhibits erythrocyte and liver microsome membrane oxidation in rabbits fed with an atherogenic diet. <i>Nutrition</i> , 2003 , 19, 800-4	4.8	15
5	Virgin olive and fish oils enhance the hepatic antioxidant defence system in atherosclerotic rabbits. <i>Clinical Nutrition</i> , 2003 , 22, 379-84	5.9	25
4	Curcuma longa extract supplementation reduces oxidative stress and attenuates aortic fatty streak development in rabbits. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> 2002 , 22, 1225-31	9.4	137
3	Sunflower, virgin-olive and fish oils differentially affect the progression of aortic lesions in rabbits with experimental atherosclerosis. <i>Atherosclerosis</i> , 2002 , 162, 335-44	3.1	65
2	Oral administration of a turmeric extract inhibits LDL oxidation and has hypocholesterolemic effects in rabbits with experimental atherosclerosis. <i>Atherosclerosis</i> , 1999 , 147, 371-8	3.1	205
1	Influence of dietary lipids on lipoprotein composition and LDL Cu(2+)-induced oxidation in rabbits with experimental atherosclerosis. <i>BioFactors</i> , 1998 , 8, 79-85	6.1	18