Concepcion M Aguilera

List of Publications by Citations

119 papers	2,960 citations	29 h-index	51 g-index
133 ext. papers	3,556 ext. citations	4.8 avg, IF	5.17 L-index

#	Paper	IF	Citations
119	Oral administration of a turmeric extract inhibits LDL oxidation and has hypocholesterolemic effects in rabbits with experimental atherosclerosis. *Atherosclerosis*, **1999**, 147, 371-8	3.1	205
118	Cell Models and Their Application for Studying Adipogenic Differentiation in Relation to Obesity: A Review. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	177
117	Omega-3 long-chain polyunsaturated fatty acids supplementation on inflammatory biomakers: a systematic review of randomised clinical trials. *British Journal of Nutrition*, **2012**, 107 Suppl 2, S159-70	3.6	175
116	Ghrelin: a hormone regulating food intake and energy homeostasis. *British Journal of Nutrition*, **2006**, 96, 201-26	3.6	138
115	Curcuma longa extract supplementation reduces oxidative stress and attenuates aortic fatty streak development in rabbits. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 1225-31	9.4	137
114	A Systematic Review of the Efficacy of Bioactive Compounds in Cardiovascular Disease: Phenolic Compounds. *Nutrients*, **2015**, 7, 5177-216	6.7	94
113	Normal or High Polyphenol Concentration in Orange Juice Affects Antioxidant Activity, Blood Pressure, and Body Weight in Obese or Overweight Adults. *Journal of Nutrition*, **2015**, 145, 1808-16	4.1	83
112	Altered signalling and gene expression associated with the immune system and the inflammatory response in obesity. *British Journal of Nutrition*, **2007**, 98 Suppl 1, S121-6	3.6	80
111	Is adipose tissue metabolically different at different sites?. *Pediatric Obesity*, **2011**, 6 Suppl 1, 13-20		71
110	Extracellular Matrix Remodeling of Adipose Tissue in Obesity and Metabolic Diseases. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	69
109	Alterations in plasma and tissue lipids associated with obesity and metabolic syndrome. *Clinical Science*, **2008**, 114, 183-93	6.5	69
108	Myeloperoxidase is an early biomarker of inflammation and cardiovascular risk in prepubertal obese children. *Diabetes Care*, **2012**, 35, 2373-6	14.6	68
107	Activating brown adipose tissue through exercise (ACTIBATE) in young adults: Rationale, design and methodology. *Contemporary Clinical Trials*, **2015**, 45, 416-425	2.3	65
106	Sunflower, virgin-olive and fish oils differentially affect the progression of aortic lesions in rabbits with experimental atherosclerosis. *Atherosclerosis*, **2002**, 162, 335-44	3.1	65
105	Sunflower oil does not protect against LDL oxidation as virgin olive oil does in patients with peripheral vascular disease. *Clinical Nutrition*, **2004**, 23, 673-81	5.9	63
104	Role of Exercise in the Activation of Brown Adipose Tissue. *Annals of Nutrition and Metabolism*, **2015**, 67, 21-32	4.5	62
103	Low tissue inhibitor of metalloproteinases 3 and high matrix metalloproteinase 14 levels defines a subpopulation of highly invasive foam-cell macrophages. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 1647-53	9.4	62

102	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. *American Journal of Clinical Nutrition*, **2011**, 94, 1986S-1992S	7	60
101	An exercise-based randomized controlled trial on brain, cognition, physical health and mental health in overweight/obese children (ActiveBrains project): Rationale, design and methods. *Contemporary Clinical Trials*, **2016**, 47, 315-24	2.3	59
100	Genetics of oxidative stress in obesity. *International Journal of Molecular Sciences*, **2014**, 15, 3118-44	6.3	48
99	Presence of the metabolic syndrome in obese children at prepubertal age. *Annals of Nutrition and Metabolism*, **2011**, 58, 343-50	4.5	43
98	Relationship between type IV collagen degradation, metalloproteinase activity and smooth muscle cell migration and proliferation in cultured human saphenous vein. *Cardiovascular Research*, **2003**, 58, 679-88	9.9	41
97	Genome-wide expression in visceral adipose tissue from obese prepubertal children. *International Journal of Molecular Sciences*, **2015**, 16, 7723-37	6.3	39
96	Metformin for Obesity in Prepubertal and Pubertal Children: A Randomized Controlled Trial. *Pediatrics*, **2017**, 140,	7.4	37
95	Development of insulin resistance and its relation to diet in the obese child. *European Journal of Nutrition*, **2007**, 46, 181-7	5.2	37
94	Inhibition of N-cadherin retards smooth muscle cell migration and intimal thickening via induction of apoptosis. *Journal of Vascular Surgery*, **2010**, 52, 1301-9	3.5	33
93	A Continuous Metabolic Syndrome Score Is Associated with Specific Biomarkers of Inflammation and CVD Risk in Prepubertal Children. *Annals of Nutrition and Metabolism*, **2015**, 66, 72-9	4.5	31
92	Influence of FTO variants on obesity, inflammation and cardiovascular disease risk biomarkers in Spanish children: a case-control multicentre study. *BMC Medical Genetics*, **2013**, 14, 123	2.1	31
91	Genetic Factors and Molecular Mechanisms of Vitamin D and Obesity Relationship. *Annals of Nutrition and Metabolism*, **2018**, 73, 89-99	4.5	30
90	Waist-to-height ratio, inflammation and CVD risk in obese children. *Public Health Nutrition*, **2014**, 17, 2378-85	3.3	29
89	Metabolic syndrome affects fatty acid composition of plasma lipids in obese prepubertal children. *Lipids*, **2008**, 43, 723-32	1.6	29
88	Circulating miRNAs as Biomarkers of Obesity and Obesity-Associated Comorbidities in Children and Adolescents: A Systematic Review. *Nutrients*, **2019**, 11,	6.7	28
87	Paraoxonase 1 activities and genetic variation in childhood obesity. *British Journal of Nutrition*, **2013**, 110, 1639-47	3.6	26
86	Influence of variants in the NPY gene on obesity and metabolic syndrome features in Spanish children. *Peptides*, **2013**, 45, 22-7	3.8	25
85	A serum metabolomics-driven approach predicts orange juice consumption and its impact on oxidative stress and inflammation in subjects from the BIONAOS study. *Molecular Nutrition and Food Research*, **2017**, 61, 1600120	5.9	25

84	Virgin olive and fish oils enhance the hepatic antioxidant defence system in atherosclerotic rabbits. *Clinical Nutrition*, **2003**, 22, 379-84	5.9	25
83	Fasting and postprandial relationships among plasma leptin, ghrelin, and insulin in prepubertal obese children. *Clinical Nutrition*, **2010**, 29, 54-9	5.9	23
82	Impact of 3-Amino-1,2,4-Triazole (3-AT)-Derived Increase in Hydrogen Peroxide Levels on Inflammation and Metabolism in Human Differentiated Adipocytes. *PLoS ONE*, **2016**, 11, e0152550	3.7	23
81	Are catalase -844A/G polymorphism and activity associated with childhood obesity?. *Antioxidants and Redox Signaling*, **2013**, 19, 1970-5	8.4	20
80	Influence of an eicosapentaenoic and docosahexaenoic acid-enriched enteral nutrition formula on plasma fatty acid composition and biomarkers of insulin resistance in the elderly. *Clinical Nutrition*, **2010**, 29, 31-7	5.9	20
79	eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research. *PLoS Computational Biology*, **2020**, 16, e1007792	5	20
78	Association of genetic polymorphisms for glutathione peroxidase genes with obesity in Spanish children. *Journal of Nutrigenetics and Nutrigenomics*, **2014**, 7, 130-42		19
77	Cardiovascular risk biomarkers and metabolically unhealthy status in prepubertal children: Comparison of definitions. *Nutrition, Metabolism and Cardiovascular Diseases*, **2018**, 28, 524-530	4.5	18
76	Influence of dietary lipids on lipoprotein composition and LDL Cu(2+)-induced oxidation in rabbits with experimental atherosclerosis. *BioFactors*, **1998**, 8, 79-85	6.1	18
75	Genetics of Lactose Intolerance: An Updated Review and Online Interactive World Maps of Phenotype and Genotype Frequencies. *Nutrients*, **2020**, 12,	6.7	18
74	Genetic susceptibility to obesity and metabolic syndrome in childhood. *Nutricion Hospitalaria*, **2013**, 28 Suppl 5, 44-55	1	17
73	A Systematic Review of the Efficacy of Bioactive Compounds in Cardiovascular Disease: Carbohydrates, Active Lipids and Nitrogen Compounds. *Annals of Nutrition and Metabolism*, **2015**, 66, 168-181	4.5	16
72	25-Hydroxyvitamin D levels of children are inversely related to adiposity assessed by body mass index. *Journal of Physiology and Biochemistry*, **2018**, 74, 111-118	5	16
71	Does consumption of two portions of salmon per week enhance the antioxidant defense system in pregnant women?. *Antioxidants and Redox Signaling*, **2012**, 16, 1401-6	8.4	16
70	Leptin Receptor Gene Variant rs11804091 Is Associated with BMI and Insulin Resistance in Spanish Female Obese Children: A Case-Control Study. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	15
69	Bioactive anti-obesity food components. *International Journal for Vitamin and Nutrition Research*, **2012**, 82, 148-56	1.7	15
68	Oral administration of a turmeric extract inhibits erythrocyte and liver microsome membrane oxidation in rabbits fed with an atherogenic diet. *Nutrition*, **2003**, 19, 800-4	4.8	15
67	Plasma inflammatory and vascular homeostasis biomarkers increase during human pregnancy but are not affected by oily fish intake. *Journal of Nutrition*, **2012**, 142, 1191-6	4.1	14

66	Activation of Human Brown Adipose Tissue by Capsinoids, Catechins, Ephedrine, and Other Dietary Components: A Systematic Review. *Advances in Nutrition*, **2019**, 10, 291-302	10	14
65	Monounsaturated and omega-3 but not omega-6 polyunsaturated fatty acids improve hepatic fibrosis in hypercholesterolemic rabbits. *Nutrition*, **2005**, 21, 363-71	4.8	13
64	Sedentarism, Physical Activity, Steps, and Neurotrophic Factors in Obese Children. *Medicine and Science in Sports and Exercise*, **2019**, 51, 2325-2333	1.2	13
63	The protein S100A4 as a novel marker of insulin resistance in prepubertal and pubertal children with obesity. *Metabolism: Clinical and Experimental*, **2020**, 105, 154187	12.7	12
62	A gene variant of 11-hydroxysteroid dehydrogenase type 1 is associated with obesity in children. *International Journal of Obesity*, **2012**, 36, 1558-63	5.5	12
61	Cluster Analysis of Physical Activity Patterns, and Relationship with Sedentary Behavior and Healthy Lifestyles in Prepubertal Children: Genobox Cohort. *Nutrients*, **2020**, 12,	6.7	11
60	Inflammatory biomarkers and brain health indicators in children with overweight and obesity: The ActiveBrains project. *Brain, Behavior, and Immunity*, **2019**, 81, 588-597	16.6	9
59	Changes in plasma adipokines in prepubertal children with a history of extrauterine growth restriction. *Nutrition*, **2013**, 29, 1321-5	4.8	9
58	Biochemical characterization of the bifunctional enzyme dihydrofolate reductase-thymidylate synthase from Leishmania (Viannia) and its evaluation as a drug target. *Biomedica*, **2013**, 33, 393-401	0.9	9
57	Associations among Inflammatory Biomarkers in the Circulating, Plasmatic, Salivary and Intraluminal Anatomical Compartments in Apparently Healthy Preschool Children from the Western Highlands of Guatemala. *PLoS ONE*, **2015**, 10, e0129158	3.7	9
56	Antioxidants and Oxidative Stress in Children: Influence of Puberty and Metabolically Unhealthy Status. *Antioxidants*, **2020**, 9,	7.1	9
55	ANGPTL-4 is Associated with Obesity and Lipid Profile in Children and Adolescents. *Nutrients*, **2019**, 11,	6.7	8
54	Fasting and postprandial adiponectin alterations anticipate NEFA and TNF- changes in prepubertal obese children. *Nutrition, Metabolism and Cardiovascular Diseases*, **2011**, 21, 62-8	4.5	8
53	Dietary Patterns and Their Association with Body Composition and Cardiometabolic Markers in Children and Adolescents: Genobox Cohort. *Nutrients*, **2020**, 12,	6.7	8
52	Fatty acid status and antioxidant defense system in mothers and their newborns after salmon intake during late pregnancy. *Nutrition*, **2017**, 33, 157-162	4.8	7
51	Is There a Role for Metformin in the Treatment of Childhood Obesity?. *Pediatrics*, **2017**, 140,	7.4	7
50	Strong Associations Exist among Oxidative Stress and Antioxidant Biomarkers in the Circulating, Cellular and Urinary Anatomical Compartments in Guatemalan Children from the Western Highlands. *PLoS ONE*, **2016**, 11, e0146921	3.7	7
49	Omics Approaches in Adipose Tissue and Skeletal Muscle Addressing the Role of Extracellular Matrix in Obesity and Metabolic Dysfunction. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	7

48	Effects of X-chromosome Tenomodulin Genetic Variants on Obesity in a Children's Cohort and Implications of the Gene in Adipocyte Metabolism. *Scientific Reports*, **2019**, 9, 3979	4.9	6
47	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
46	Changes in Physical Activity Patterns from Childhood to Adolescence: Genobox Longitudinal Study. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	6
45	Distinct whole-blood transcriptome profile of children with metabolic healthy overweight/obesity compared to metabolic unhealthy overweight/obesity. *Pediatric Research*, **2021**, 89, 1687-1694	3.2	6
44	Evaluation of differential effects of metformin treatment in obese children according to pubertal stage and genetic variations: study protocol for a randomized controlled trial. *Trials*, **2016**, 17, 323	2.8	6
43	Evidence of high F-fluorodeoxyglucose uptake in the subcutaneous adipose tissue of the dorsocervical area in young adults. *Experimental Physiology*, **2019**, 104, 168-173	2.4	6
42	Identification and functional analysis of missense mutations in the lecithin cholesterol acyltransferase gene in a Chilean patient with hypoalphalipoproteinemia. *Lipids in Health and Disease*, **2019**, 18, 132	4.4	5
41	Variation in hydration status within the normative range is associated with urinary biomarkers of systemic oxidative stress in Guatemalan preschool children. *American Journal of Clinical Nutrition*, **2015**, 102, 865-72	7	5
40	A specific protein-enriched enteral formula decreases cortisolemia and improves plasma albumin and amino acid concentrations in elderly patients. *Nutrition and Metabolism*, **2010**, 7, 58	4.6	5
39	Effect of two bakery products on short-term food intake and gut-hormones in young adults: a pilot study. *International Journal of Food Sciences and Nutrition*, **2015**, 67, 562-70	3.7	5
38	RE: Association between habitual physical activity and brown adipose tissue activity in individuals undergoing PET-CT scan. *Clinical Endocrinology*, **2015**, 83, 590-1	3.4	4
37	Endocrine Mechanisms Connecting Exercise to Brown Adipose Tissue Metabolism: a Human Perspective. *Current Diabetes Reports*, **2020**, 20, 40	5.6	4
36	A Multi-Omics Approach Reveals New Signatures in Obese Allergic Asthmatic Children. *Biomedicines*, **2020**, 8,	4.8	4
35	Interaction of Giardia intestinalis and Systemic Oxidation in Preschool Children in the Western Highlands of Guatemala. *Journal of Pediatric Gastroenterology and Nutrition*, **2016**, 63, 118-22	2.8	4
34	An analogue of atrial natriuretic peptide (C-ANP4-23) modulates glucose metabolism in human differentiated adipocytes. *Molecular and Cellular Endocrinology*, **2016**, 431, 101-8	4.4	4
33	Vitamin D Food Fortification and Nutritional Status in Children: A Systematic Review of Randomized Controlled Trials. *Nutrients*, **2019**, 11,	6.7	4
32	Evaluation of the gut microbiota after metformin intervention in children with obesity: A metagenomic study of a randomized controlled trial. *Biomedicine and Pharmacotherapy*, **2021**, 134, 111117	7.5	4
31	Common Variants in 22 Genes Regulate Response to Metformin Intervention in Children with Obesity: A Pharmacogenetic Study of a Randomized Controlled Trial. *Journal of Clinical Medicine*, **2019**, 8,	5.1	3

30	Energy Dense Salty Food Consumption Frequency Is Associated with Diastolic Hypertension in Spanish Children. *Nutrients*, **2020**, 12,	6.7	3
29	Inflammatory markers and bone mass in children with overweight/obesity: the role of muscular fitness. *Pediatric Research*, **2020**, 87, 42-47	3.2	3
28	Oxidative Stress and Inflammation in Obesity and Metabolic Syndrome **2018**, 1-15		3
27	X chromosome genetic data in a Spanish children cohort, dataset description and analysis pipeline. *Scientific Data*, **2019**, 6, 130	8.2	2
26	Relationship between Physical Activity, Oxidative Stress, and Total Plasma Antioxidant Capacity in Spanish Children from the GENOBOX Study. *Antioxidants*, **2021**, 10,	7.1	2
25	Elevated plasma succinate levels are linked to higher cardiovascular disease risk factors in young adults. *Cardiovascular Diabetology*, **2021**, 20, 151	8.7	2
24	Evaluation of the Predictive Ability, Environmental Regulation and Pharmacogenetics Utility of a BMI-Predisposing Genetic Risk Score during Childhood and Puberty. *Journal of Clinical Medicine*, **2020**, 9,	5.1	1
23	Association of Diet, Physical Activity Guidelines and Cardiometabolic Risk Markers in Children. *Nutrients*, **2021**, 13, 2954	6.7	1
22	The Vitamin D Decrease in Children with Obesity Is Associated with the Development of Insulin Resistance during Puberty: The PUBMEP Study.. *Nutrients*, **2021**, 13,	6.7	1
21	Association of Diet, Physical Activity Guidelines and Cardiometabolic Risk Markers in Children. *Nutrients*, **2021**, 13,	6.7	1
20	Serum 25-hydroxyvitamin D levels and its relationship with sex hormones, puberty and obesity degree in children and adolescents. *Child and Adolescent Obesity*, **2020**, 3, 150-169	1.1	1
19	Changes in Oxidative Stress and Inflammatory Biomarkers in Fragile Adults over Fifty Years of Age and in Elderly People Exclusively Fed Enteral Nutrition. *Oxidative Medicine and Cellular Longevity*, **2015**, 2015, 5709312	6.7	1
18	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. *Journal of Nutrition*, **2021**, 151, 675-684	4.1	1
17	A larger brown fat volume and lower radiodensity are related to a greater cardiometabolic risk, especially in young men. *European Journal of Endocrinology*, **2022**, 187, 171-183	6.5	1
16	Evaluation of Sedentary Behavior and Physical Activity Levels Using Different Accelerometry Protocols in Children from the GENOBOX Study. *Sports Medicine - Open*, **2021**, 7, 86	6.1	0
15	Impact of Physical Activity Intensity Levels on the Cardiometabolic Risk Status of Children: The Genobox Study. *International Journal of Sport Nutrition and Exercise Metabolism*, **2021**, 1-9	4.4	0
14	Exercise-induced changes on exerkines that might influence brown adipose tissue metabolism in young sedentary adults.. *European Journal of Sport Science*, **2022**, 1-53	3.9	0
13	Fitness Levels and Gender Are Related With the Response of Plasma Adipokines and Inflammatory Cytokines in Prepubertal Children.. *Frontiers in Nutrition*, **2022**, 9, 883871	6.2	0

12	Human Multi-omics Data Pre-processing for Predictive Purposes Using Machine Learning: A Case Study in Childhood Obesity. *Lecture Notes in Computer Science*, **2022**, 359-374	0.9	0
11	Metabolic syndrome before puberty: Myth or reality?. *Current Opinion in Endocrine and Metabolic Research*, **2020**, 14, 97-103	1.7	
10	Authors Response. *Pediatrics*, **2017**, 140,	7.4	
9	Adipose Extracellular Matrix Remodeling in Obesity and Insulin Resistance **2021**, 215-229		
8	Mutual Interactions among Anti-oxidative Nutrients, Antioxidant Enzymes and Urinary Biomarkers of Oxidative Stress in Guatemalan Preschoolers in the Western Highlands. *FASEB Journal*, **2015**, 29, 760.4	0.9	
7	Experimental Models of Oxidative Stress Related to Cardiovascular Diseases and Diabetes **2011**, 39-60		
6	Prepubertal Children With Metabolically Healthy Obesity or Overweight Are More Active Than Their Metabolically Unhealthy Peers Irrespective of Weight Status: GENOBOX Study.. *Frontiers in Nutrition*, **2022**, 9, 821548	6.2	
5	eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research **2020**, 16, e1007792		
4	eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research **2020**, 16, e1007792		
3	eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research **2020**, 16, e1007792		
2	eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research **2020**, 16, e1007792		
1	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	