

# Carolina Medina-Gomez

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

18,980  
citations

57681

46  
h-index

40945

97  
g-index

112  
all docs

112  
docs citations

112  
times ranked

29422  
citing authors

#	ARTICLE	IF	CITATIONS
1	Serum Phosphate, BMI, and Body Composition of Middle-Aged and Older Adults: A Cross-Sectional Association Analysis and Bidirectional Mendelian Randomization Study. <i>Journal of Nutrition</i> , 2022, 152, 276-285.	1.3	6
2	Microbiomics, Metabolomics, Predicted Metagenomics, and Hepatic Steatosis in a Population-Based Study of 1,355 Adults. <i>Hepatology</i> , 2021, 73, 968-982.	3.6	43
3	Genome-wide association study identifies 48 common genetic variants associated with handedness. <i>Nature Human Behaviour</i> , 2021, 5, 59-70.	6.2	79
4	Large-scale association analyses identify host factors influencing human gut microbiome composition. <i>Nature Genetics</i> , 2021, 53, 156-165.	9.4	676
5	The Gut Microbiome: a New Frontier in Musculoskeletal Research. <i>Current Osteoporosis Reports</i> , 2021, 19, 347-357.	1.5	17
6	The Polygenic and Monogenic Basis of Paediatric Fractures. <i>Current Osteoporosis Reports</i> , 2021, 19, 481-493.	1.5	2
7	A comparison of genotyping arrays. <i>European Journal of Human Genetics</i> , 2021, 29, 1611-1624.	1.4	43
8	An <i>ARHGAP25</i> variant links aberrant <i>Rac1</i> function to early-onset skeletal fragility. <i>JBMR Plus</i> , 2021, 5, e10509.	1.3	4
9	A population-based study on associations of stool microbiota with atopic diseases in school-age children. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 612-620.	1.5	29
10	CYP11B1 variants influence skeletal maturation via alternative splicing. <i>Communications Biology</i> , 2021, 4, 1274.	2.0	3
11	Sarcopenia in older people with chronic airway diseases: the Rotterdam study. <i>ERJ Open Research</i> , 2021, 7, 00522-2020.	1.1	8
12	Bone Phenotyping Approaches in Human, Mice and Zebrafish – Expert Overview of the EU Cost Action GEMSTONE (Genomics of MusculoSkeletal traits Translational Network). <i>Frontiers in Endocrinology</i> , 2021, 12, 720728.	1.5	12
13	The power of genetic diversity in genome-wide association studies of lipids. <i>Nature</i> , 2021, 600, 675-679.	13.7	353
14	Skeletal maturation in relation to ethnic background in children of school age: The Generation R Study. <i>Bone</i> , 2020, 132, 115180.	1.4	18
15	Genetic basis of falling risk susceptibility in the UK Biobank Study. <i>Communications Biology</i> , 2020, 3, 543.	2.0	17
16	Novel loci for childhood body mass index and shared heritability with adult cardiometabolic traits. <i>PLoS Genetics</i> , 2020, 16, e1008718.	1.5	95
17	Genetic Studies of Leptin Concentrations Implicate Leptin in the Regulation of Early Adiposity. <i>Diabetes</i> , 2020, 69, 2806-2818.	0.3	26
18	Diversity, compositional and functional differences between gut microbiota of children and adults. <i>Scientific Reports</i> , 2020, 10, 1040.	1.6	89

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19	Distinct Subsets of Noncoding RNAs Are Strongly Associated With BMD and Fracture, Studied in Weight-Bearing and Non-Weight-Bearing Human Bone. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1065-1076.	3.1	9
20	Down-to-Earth Studies of the Gut Microbiome in Bone Health and Disease. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 595-596.	3.1	3
21	Intestinal microbiome composition and its relation to joint pain and inflammation. <i>Nature Communications</i> , 2019, 10, 4881.	5.8	176
22	Disentangling the genetics of lean mass. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 276-287.	2.2	38
23	Associations of autozygosity with a broad range of human phenotypes. <i>Nature Communications</i> , 2019, 10, 4957.	5.8	84
24	Low-frequency variation in TP53 has large effects on head circumference and intracranial volume. <i>Nature Communications</i> , 2019, 10, 357.	5.8	30
25	Fractures in school age children in relation to sex and ethnic background: The Generation R Study. <i>Bone</i> , 2019, 121, 227-231.	1.4	7
26	Mendelian Randomization Analysis Reveals a Causal Influence of Circulating Sclerostin Levels on Bone Mineral Density and Fractures. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 1824-1836.	3.1	24
27	Exome-Derived Adiponectin-Associated Variants Implicate Obesity and Lipid Biology. <i>American Journal of Human Genetics</i> , 2019, 105, 15-28.	2.6	21
28	Maternal and fetal genetic effects on birth weight and their relevance to cardio-metabolic risk factors. <i>Nature Genetics</i> , 2019, 51, 804-814.	9.4	402
29	Meta-Analysis of Genomewide Association Studies Reveals Genetic Variants for Hip Bone Geometry. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 1284-1296.	3.1	27
30	Mendelian randomisation analyses find pulmonary factors mediate the effect of height on coronary artery disease. <i>Communications Biology</i> , 2019, 2, 119.	2.0	35
31	Femoral stress is prominently associated with fracture risk in children: The Generation R Study. <i>Bone</i> , 2019, 122, 150-155.	1.4	5
32	Protein-coding variants implicate novel genes related to lipid homeostasis contributing to body-fat distribution. <i>Nature Genetics</i> , 2019, 51, 452-469.	9.4	89
33	An atlas of genetic influences on osteoporosis in humans and mice. <i>Nature Genetics</i> , 2019, 51, 258-266.	9.4	557
34	Sarcopenia and Its Clinical Correlates in the General Population: The Rotterdam Study. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 1209-1218.	3.1	51
35	Genome-wide association study identifies nine novel loci for 2D:4D finger ratio, a putative retrospective biomarker of testosterone exposure in utero. <i>Human Molecular Genetics</i> , 2018, 27, 2025-2038.	1.4	36
36	Life-Course Genome-wide Association Study Meta-analysis of Total Body BMD and Assessment of Age-Specific Effects. <i>American Journal of Human Genetics</i> , 2018, 102, 88-102.	2.6	252

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37	Identification of a novel locus on chromosome 2q13, which predisposes to clinical vertebral fractures independently of bone density. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 378-385.	0.5	21
38	Ancestry and dental development: A geographic and genetic perspective. <i>American Journal of Physical Anthropology</i> , 2018, 165, 299-308.	2.1	27
39	Characterization of expression and alternative splicing of the gene cadherin-like and PC esterase domain containing 1 (Cped1). <i>Gene</i> , 2018, 674, 127-133.	1.0	14
40	Consortium-based genome-wide meta-analysis for childhood dental caries traits. <i>Human Molecular Genetics</i> , 2018, 27, 3113-3127.	1.4	32
41	Meta-analysis of human genome-microbiome association studies: the MiBioGen consortium initiative. <i>Microbiome</i> , 2018, 6, 101.	4.9	109
42	Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. <i>Nature Genetics</i> , 2018, 50, 26-41.	9.4	286
43	Rare and low-frequency coding variants alter human adult height. <i>Nature</i> , 2017, 542, 186-190.	13.7	544
44	Whole-Genome Sequencing Coupled to Imputation Discovers Genetic Signals for Anthropometric Traits. <i>American Journal of Human Genetics</i> , 2017, 100, 865-884.	2.6	131
45	Genome-wide meta-analysis associates HLA-DQA1/DRB1 and LPA and lifestyle factors with human longevity. <i>Nature Communications</i> , 2017, 8, 910.	5.8	118
46	Low-Frequency Synonymous Coding Variation in CYP2R1 Has Large Effects on Vitamin D Levels and Risk of Multiple Sclerosis. <i>American Journal of Human Genetics</i> , 2017, 101, 227-238.	2.6	112
47	Large meta-analysis of genome-wide association studies identifies five loci for lean body mass. <i>Nature Communications</i> , 2017, 8, 80.	5.8	147
48	Bivariate genome-wide association meta-analysis of pediatric musculoskeletal traits reveals pleiotropic effects at the SREBF1/TOM1L2 locus. <i>Nature Communications</i> , 2017, 8, 121.	5.8	82
49	Evolution of Complex Traits in Human Populations. , 2017, , 165-186.		0
50	Genetic Polymorphism of miR-196a-2 is Associated with Bone Mineral Density (BMD). <i>International Journal of Molecular Sciences</i> , 2017, 18, 2529.	1.8	14
51	Identification of 153 new loci associated with heel bone mineral density and functional involvement of GPC6 in osteoporosis. <i>Nature Genetics</i> , 2017, 49, 1468-1475.	9.4	391
52	Genome-wide associations for birth weight and correlations with adult disease. <i>Nature</i> , 2016, 538, 248-252.	13.7	406
53	Single Nucleotide Polymorphism Heritability of a General Psychopathology Factor in Children. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2016, 55, 1038-1045.e4.	0.3	103
54	A genome-wide association meta-analysis of diarrhoeal disease in young children identifies <i>FUT2</i> locus and provides plausible biological pathways. <i>Human Molecular Genetics</i> , 2016, 25, 4127-4142.	1.4	35

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55	A principal component meta-analysis on multiple anthropometric traits identifies novel loci for body shape. <i>Nature Communications</i> , 2016, 7, 13357.	5.8	74
56	Bone Mass and Strength in School-Age Children Exhibit Sexual Dimorphism Related to Differences in Lean Mass: The Generation R Study. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 1099-1106.	3.1	19
57	New loci for body fat percentage reveal link between adiposity and cardiometabolic disease risk. <i>Nature Communications</i> , 2016, 7, 10495.	5.8	245
58	The case for genome-wide association studies of bone acquisition in paediatric and adolescent populations. <i>BoneKEY Reports</i> , 2016, 5, 796.	2.7	5
59	Methylation of Bone <i>SOST</i> , Its mRNA, and Serum Sclerostin Levels Correlate Strongly With Fracture Risk in Postmenopausal Women. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 249-256.	3.1	85
60	Fine mapping the CETP region reveals a common intronic insertion associated to HDL-C. <i>Npj Aging and Mechanisms of Disease</i> , 2015, 1, 15011.	4.5	8
61	The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study. <i>PLoS Genetics</i> , 2015, 11, e1005378.	1.5	331
62	BMD Loci Contribute to Ethnic and Developmental Differences in Skeletal Fragility across Populations: Assessment of Evolutionary Selection Pressures. <i>Molecular Biology and Evolution</i> , 2015, 32, 2961-2972.	3.5	29
63	New genetic loci link adipose and insulin biology to body fat distribution. <i>Nature</i> , 2015, 518, 187-196.	13.7	1,328
64	Genetic studies of body mass index yield new insights for obesity biology. <i>Nature</i> , 2015, 518, 197-206.	13.7	3,823
65	Does fetal smoke exposure affect childhood bone mass? The Generation R Study. <i>Osteoporosis International</i> , 2015, 26, 1319-1329.	1.3	11
66	Infant dietary patterns and bone mass in childhood: the Generation R Study. <i>Osteoporosis International</i> , 2015, 26, 1595-1604.	1.3	23
67	Challenges in conducting genome-wide association studies in highly admixed multi-ethnic populations: the Generation R Study. <i>European Journal of Epidemiology</i> , 2015, 30, 317-330.	2.5	109
68	Genome of the Netherlands population-specific imputations identify an ABCA6 variant associated with cholesterol levels. <i>Nature Communications</i> , 2015, 6, 6065.	5.8	45
69	Whole-genome sequencing identifies EN1 as a determinant of bone density and fracture. <i>Nature</i> , 2015, 526, 112-117.	13.7	483
70	Population genetic differentiation of height and body mass index across Europe. <i>Nature Genetics</i> , 2015, 47, 1357-1362.	9.4	227
71	Estimation of Genetic Relationships Between Individuals Across Cohorts and Platforms: Application to Childhood Height. <i>Behavior Genetics</i> , 2015, 45, 514-528.	1.4	20
72	A novel common variant in DCST2 is associated with length in early life and height in adulthood. <i>Human Molecular Genetics</i> , 2015, 24, 1155-1168.	1.4	109

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73	Improving accuracy of rare variant imputation with a two-step imputation approach. <i>European Journal of Human Genetics</i> , 2015, 23, 395-400.	1.4	32
74	Genome-Wide Association Study in an Admixed Case Series Reveals IL12A as a New Candidate in Behçet Disease. <i>PLoS ONE</i> , 2015, 10, e0119085.	1.1	61
75	Improved imputation quality of low-frequency and rare variants in European samples using the "Genome of The Netherlands"™. <i>European Journal of Human Genetics</i> , 2014, 22, 1321-1326.	1.4	92
76	A genome-wide copy number association study of osteoporotic fractures points to the 6p25.1 locus. <i>Journal of Medical Genetics</i> , 2014, 51, 122-131.	1.5	36
77	Update on the Genetic Basis of Disorders of the Musculoskeletal System (ECTS 2013). <i>IBMS BoneKEy</i> , 2014, 11, .	0.1	1
78	Phenotypic Dissection of Bone Mineral Density Reveals Skeletal Site Specificity and Facilitates the Identification of Novel Loci in the Genetic Regulation of Bone Mass Attainment. <i>PLoS Genetics</i> , 2014, 10, e1004423.	1.5	134
79	Genetic determinants of heel bone properties: genome-wide association meta-analysis and replication in the GEFOS/GENOMOS consortium. <i>Human Molecular Genetics</i> , 2014, 23, 3054-3068.	1.4	90
80	Genome-wide association study for radiographic vertebral fractures: A potential role for the 16q24 BMD locus. <i>Bone</i> , 2014, 59, 20-27.	1.4	32
81	Defining the role of common variation in the genomic and biological architecture of adult human height. <i>Nature Genetics</i> , 2014, 46, 1173-1186.	9.4	1,818
82	Whole-genome sequence variation, population structure and demographic history of the Dutch population. <i>Nature Genetics</i> , 2014, 46, 818-825.	9.4	641
83	Fetal and Childhood Growth Patterns Associated with Bone Mass in School-Age Children: The Generation R Study. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 2584-2593.	3.1	28
84	Genome-wide association study for radiographic vertebral fractures: a potential role for the 16q24 BMD locus. <i>Bone</i> , 2014, 59, 20-7.	1.4	17
85	Meta-analysis of Gene-Level Associations for Rare Variants Based on Single-Variant Statistics. <i>American Journal of Human Genetics</i> , 2013, 93, 236-248.	2.6	60
86	Genome-wide meta-analysis identifies 11 new loci for anthropometric traits and provides insights into genetic architecture. <i>Nature Genetics</i> , 2013, 45, 501-512.	9.4	578
87	Sex-stratified Genome-wide Association Studies Including 270,000 Individuals Show Sexual Dimorphism in Genetic Loci for Anthropometric Traits. <i>PLoS Genetics</i> , 2013, 9, e1003500.	1.5	371
88	Maternal first-trimester diet and childhood bone mass: the Generation R Study. <i>American Journal of Clinical Nutrition</i> , 2013, 98, 224-232.	2.2	69
89	Meta-Analysis of Genome-Wide Scans for Total Body BMD in Children and Adults Reveals Allelic Heterogeneity and Age-Specific Effects at the WNT16 Locus. <i>PLoS Genetics</i> , 2012, 8, e1002718.	1.5	142
90	WNT16 Influences Bone Mineral Density, Cortical Bone Thickness, Bone Strength, and Osteoporotic Fracture Risk. <i>PLoS Genetics</i> , 2012, 8, e1002745.	1.5	240

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91	Genome-wide meta-analysis identifies 56 bone mineral density loci and reveals 14 loci associated with risk of fracture. <i>Nature Genetics</i> , 2012, 44, 491-501.	9.4	1,100
92	Assessment of gene-by-sex interaction effect on bone mineral density. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 2051-2064.	3.1	47
93	FTO genotype is associated with phenotypic variability of body mass index. <i>Nature</i> , 2012, 490, 267-272.	13.7	383
94	Bone and the gut microbiome: a new dimension. <i>Journal of Laboratory and Precision Medicine</i> , 0, 3, 96-96.	1.1	11