

# Cheryl L Ackert-Bicknell

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

5,935  
citations

136885

32  
h-index

95218

68  
g-index

81  
all docs

81  
docs citations

81  
times ranked

8867  
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulating levels of IGF-1 directly regulate bone growth and density. <i>Journal of Clinical Investigation</i> , 2002, 110, 771-781.	3.9	640
2	An atlas of genetic influences on osteoporosis in humans and mice. <i>Nature Genetics</i> , 2019, 51, 258-266.	9.4	557
3	Whole-genome sequencing identifies EN1 as a determinant of bone density and fracture. <i>Nature</i> , 2015, 526, 112-117.	13.7	483
4	Circulating levels of IGF-1 directly regulate bone growth and density. <i>Journal of Clinical Investigation</i> , 2002, 110, 771-781.	3.9	469
5	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
6	Marrow Fat and the Bone Microenvironment: Developmental, Functional, and Pathological Implications. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2009, 19, 109-124.	0.4	304
7	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
8	A New Standard Genetic Map for the Laboratory Mouse. <i>Genetics</i> , 2009, 182, 1335-1344.	1.2	202
9	Targeting the gut microbiome to treat the osteoarthritis of obesity. <i>JCI Insight</i> , 2018, 3, .	2.3	166
10	Genetic analysis in the Collaborative Cross breeding population. <i>Genome Research</i> , 2011, 21, 1223-1238.	2.4	158
11	A circadian-regulated gene, <i>Nocturnin</i> , promotes adipogenesis by stimulating PPAR- $\beta$ nuclear translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10508-10513.	3.3	136
12	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
13	Genome-wide association study of behavioral, physiological and gene expression traits in outbred CFW mice. <i>Nature Genetics</i> , 2016, 48, 919-926.	9.4	119
14	Nitric Oxide Regulates Receptor Activator of Nuclear Factor- $\kappa$ B Ligand and Osteoprotegerin Expression in Bone Marrow Stromal Cells. <i>Endocrinology</i> , 2004, 145, 751-759.	1.4	107
15	Congenetic mice with low serum IGF-I have increased body fat, reduced bone mineral density, and an altered osteoblast differentiation program. <i>Bone</i> , 2004, 35, 1046-1058.	1.4	101
16	Genetic variation in femur extrinsic strength in 29 different inbred strains of mice is dependent on variations in femur cross-sectional geometry and bone density. <i>Bone</i> , 2005, 36, 111-122.	1.4	100
17	Aging Research Using Mouse Models. <i>Current Protocols in Mouse Biology</i> , 2015, 5, 95-133.	1.2	92
18	How do bisphosphonates affect fracture healing?. <i>Injury</i> , 2016, 47, S65-S68.	0.7	87

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19	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
20	High-Throughput, Multi-Image Cryohistology of Mineralized Tissues. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	78
21	Strain-Specific Effects of Rosiglitazone on Bone Mass, Body Composition, and Serum Insulin-Like Growth Factor-I. <i>Endocrinology</i> , 2009, 150, 1330-1340.	1.4	77
22	Genome-wide meta-analysis of muscle weakness identifies 15 susceptibility loci in older men and women. <i>Nature Communications</i> , 2021, 12, 654.	5.8	75
23	HDL cholesterol and bone mineral density: Is there a genetic link?. <i>Bone</i> , 2012, 50, 525-533.	1.4	71
24	Canonical A-to-I and C-to-U RNA Editing Is Enriched at 3' UTRs and microRNA Target Sites in Multiple Mouse Tissues. <i>PLoS ONE</i> , 2012, 7, e33720.	1.1	71
25	Spontaneous voiding by mice reveals strain-specific lower urinary tract function to be a quantitative genetic trait. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, F1296-F1307.	1.3	68
26	Mapping of Craniofacial Traits in Outbred Mice Identifies Major Developmental Genes Involved in Shape Determination. <i>PLoS Genetics</i> , 2015, 11, e1005607.	1.5	67
27	<i>Pparg</i> by Dietary Fat Interaction Influences Bone Mass in Mice and Humans. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1398-1408.	3.1	56
28	Functional Genomics Complements Quantitative Genetics in Identifying Disease-Gene Associations. <i>PLoS Computational Biology</i> , 2010, 6, e1000991.	1.5	55
29	Mouse BMD quantitative trait loci show improved concordance with human genome-wide association loci when recalculated on a new, common mouse genetic map. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1808-1820.	3.1	53
30	Genetic Dissection of Mouse Distal Chromosome 1 Reveals Three Linked BMD QTLs With Sex-Dependent Regulation of Bone Phenotypes. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 1187-1196.	3.1	50
31	Novel Genetic Variants Associated With Increased Vertebral Volumetric BMD, Reduced Vertebral Fracture Risk, and Increased Expression of <i>SLC1A3</i> and <i>EPHB2</i> . <i>Journal of Bone and Mineral Research</i> , 2016, 31, 2085-2097.	3.1	42
32	Femur Mechanical Properties in the F2 Progeny of an NZB/B1NJ × RF/J Cross Are Regulated Predominantly by Genetic Loci That Regulate Bone Geometry. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 1256-1266.	3.1	35
33	Accessing Data Resources in the Mouse Phenome Database for Genetic Analysis of Murine Life Span and Health Span. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 170-177.	1.7	32
34	Genetic Increase in Serum Insulin-Like Growth Factor-I (IGF-I) in C3H/HeJ Compared with C57BL/6J Mice Is Associated with Increased Transcription from the IGF-I Exon 2 Promoter. <i>Endocrinology</i> , 2006, 147, 2944-2955.	1.4	30
35	Screening Gene Knockout Mice for Variation in Bone Mass: Analysis by $\mu$ CT and Histomorphometry. <i>Current Osteoporosis Reports</i> , 2018, 16, 77-94.	1.5	28
36	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

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37	Allelic differences in a quantitative trait locus affecting insulin-like growth factor-I impact skeletal acquisition and body composition. <i>Pediatric Nephrology</i> , 2005, 20, 255-260.	0.9	26
38	Nocturnin: a circadian target of Pparg $\alpha$ -induced adipogenesis. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 131-138.	1.8	25
39	HMGB1-mediated restriction of EPO signaling contributes to anemia of inflammation. <i>Blood</i> , 2022, 139, 3181-3193.	0.6	23
40	Mouse genome-wide association and systems genetics identifies Lhfp as a regulator of bone mass. <i>PLoS Genetics</i> , 2019, 15, e1008123.	1.5	22
41	Identification of a Core Module for Bone Mineral Density through the Integration of a Co-expression Network and GWAS Data. <i>Cell Reports</i> , 2020, 32, 108145.	2.9	21
42	Modeling hepatic osteodystrophy in Abcb4 deficient mice. <i>Bone</i> , 2013, 55, 501-511.	1.4	20
43	Fixation stability dictates the differentiation pathway of periosteal progenitor cells in fracture repair. <i>Journal of Orthopaedic Research</i> , 2015, 33, 948-956.	1.2	19
44	Mapping genetic loci that regulate lipid levels in a NZB/B1NJ $\times$ RF/J intercross and a combined intercross involving NZB/B1NJ, RF/J, MRL/MpJ, and SJL/J mouse strains. <i>Journal of Lipid Research</i> , 2007, 48, 1724-1734.	2.0	18
45	BMD regulation on mouse distal chromosome 1, candidate genes, and response to ovariectomy or dietary fat. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 88-99.	3.1	18
46	Genetics of aging bone. <i>Mammalian Genome</i> , 2016, 27, 367-380.	1.0	17
47	Chromosomal inversion discovered in C3H/HeJ mice. <i>Genomics</i> , 2006, 87, 311-313.	1.3	16
48	Genetic variation in TRPS1 may regulate hip geometry as well as bone mineral density. <i>Bone</i> , 2012, 50, 1188-1195.	1.4	16
49	Mouse Models and Online Resources for Functional Analysis of Osteoporosis Genome-Wide Association Studies. <i>Frontiers in Endocrinology</i> , 2019, 10, 277.	1.5	16
50	Genetic analysis of osteoblast activity identifies Zbtb40 as a regulator of osteoblast activity and bone mass. <i>PLoS Genetics</i> , 2020, 16, e1008805.	1.5	15
51	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
52	Impact of the Environment on the Skeleton: Is it Modulated by Genetic Factors?. <i>Current Osteoporosis Reports</i> , 2013, 11, 219-228.	1.5	13
53	The Genetics ofPPAR $\alpha$ and the Skeleton. <i>PPAR Research</i> , 2006, 2006, 1-8.	1.1	12
54	Genetic regulation of bone strength: a review of animal model studies. <i>BoneKEy Reports</i> , 2015, 4, 714.	2.7	12

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55	A Chromosomal Inversion within a Quantitative Trait Locus Has a Major Effect on Adipogenesis and Osteoblastogenesis. <i>Annals of the New York Academy of Sciences</i> , 2007, 1116, 291-305.	1.8	11
56	A Bioinformatic Approach to Utilize a Patient's Antibody-Secreting Cells against <i>Staphylococcus aureus</i> to Detect Challenging Musculoskeletal Infections. <i>ImmunoHorizons</i> , 2020, 4, 339-351.	0.8	11
57	High-resolution genetic map of X-linked juvenile-type granulosa cell tumor susceptibility genes in mouse. <i>Cancer Research</i> , 2003, 63, 8197-202.	0.4	11
58	Genetic determinants of fibro-osseous lesions in aged inbred mice. <i>Experimental and Molecular Pathology</i> , 2016, 100, 92-100.	0.9	10
59	Passenger Gene Mutations: Unwanted Guests in Genetically Modified Mice. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 270-273.	3.1	8
60	Isolation and Culture of Neonatal Mouse Calvarial Osteoblasts. <i>Methods in Molecular Biology</i> , 2021, 2230, 425-436.	0.4	8
61	A mutagenesis-derived mouse mutant with abnormal retinal vasculature and low bone mineral density. <i>Molecular Vision</i> , 2017, 23, 140-148.	1.1	7
62	Recalculation of 23 mouse HDL QTL datasets improves accuracy and allows for better candidate gene analysis. <i>Journal of Lipid Research</i> , 2013, 54, 984-994.	2.0	6
63	Genetic Dissection of Femoral and Tibial Microarchitecture. <i>JBMR Plus</i> , 2019, 3, e10241.	1.3	6
64	The need for mouse models in osteoporosis genetics research. <i>BoneKEy Reports</i> , 2012, 1, 98.	2.7	4
65	The future of mouse genetics in osteoporosis research. <i>IBMS BoneKEy</i> , 2009, 6, 200-209.	0.1	3
66	Understanding the Transcriptomic Landscape to Drive New Innovations in Musculoskeletal Regenerative Medicine. <i>Current Osteoporosis Reports</i> , 2022, 20, 141-152.	1.5	3
67	Development and Disease of Mouse Muscular and Skeletal Systems. , 2012, , 209-239.		2
68	Genetics of osteoporosis and bone disease (ASBMR 2012). <i>IBMS BoneKEy</i> , 2013, 10, .	0.1	2
69	Inbred Mouse Strains in the Study of Bone Disease. , 2020, , 150-159.		1
70	Genetics of Bone Fat and Energy Regulation. , 2018, , 301-315.		0
71	A computational approach for identification of core modules from a co-expression network and CWAS data. <i>STAR Protocols</i> , 2021, 2, 100768.	0.5	0