

# Laura R McCabe

## List of Publications by Year in descending order

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97  
papers

6,112  
citations

81434

41  
h-index

81351

76  
g-index

99  
all docs

99  
docs citations

99  
times ranked

7064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Canonical Nlrp3 Inflammasome Links Systemic Low-Grade Inflammation to Functional Decline in Aging. <i>Cell Metabolism</i> , 2013, 18, 519-532.	7.2	494
2	Runt homology domain proteins in osteoblast differentiation: AML3/CBFA1 is a major component of a bone-specific complex. <i>Journal of Cellular Biochemistry</i> , 1997, 66, 1-8.	1.2	427
3	Probiotic <i>L. reuteri</i> Treatment Prevents Bone Loss in a Menopausal Ovariectomized Mouse Model. <i>Journal of Cellular Physiology</i> , 2014, 229, 1822-1830.	2.0	374
4	Bone Loss and Increased Bone Adiposity in Spontaneous and Pharmacologically Induced Diabetic Mice. <i>Endocrinology</i> , 2007, 148, 198-205.	1.4	225
5	Chronic hyperglycemia modulates osteoblast gene expression through osmotic and non-osmotic pathways. <i>Journal of Cellular Biochemistry</i> , 2006, 99, 411-424.	1.2	218
6	Probiotic use decreases intestinal inflammation and increases bone density in healthy male but not female mice. <i>Journal of Cellular Physiology</i> , 2013, 228, 1793-1798.	2.0	217
7	Increased Bone Adiposity and Peroxisomal Proliferator-Activated Receptor- $\beta$ 2 Expression in Type I Diabetic Mice. <i>Endocrinology</i> , 2005, 146, 3622-3631.	1.4	216
8	Understanding the pathology and mechanisms of type I diabetic bone loss. <i>Journal of Cellular Biochemistry</i> , 2007, 102, 1343-1357.	1.2	209
9	Prebiotic and Probiotic Regulation of Bone Health: Role of the Intestine and its Microbiome. <i>Current Osteoporosis Reports</i> , 2015, 13, 363-371.	1.5	169
10	Selective Expression of fos- and jun-Related Genes during Osteoblast Proliferation and Differentiation. <i>Experimental Cell Research</i> , 1995, 218, 255-262.	1.2	137
11	TGF $\beta$ alters growth and differentiation related gene expression in proliferating osteoblasts in vitro, preventing development of the mature bone phenotype. <i>Journal of Cellular Physiology</i> , 1994, 160, 323-335.	2.0	127
12	Transcriptional control of the tissue-specific, developmentally regulated osteocalcin gene requires a binding motif for the Msx family of homeodomain proteins.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 12887-12891.	3.3	124
13	Probiotic <i>Lactobacillus reuteri</i> Prevents Postantibiotic Bone Loss by Reducing Intestinal Dysbiosis and Preventing Barrier Disruption. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 681-698.	3.1	119
14	Osteoblasts respond to hydroxyapatite surfaces with immediate changes in gene expression. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71A, 108-117.	3.0	116
15	Loss of Bone and Wnt10b Expression in Male Type 1 Diabetic Mice Is Blocked by the Probiotic <i>Lactobacillus reuteri</i> . <i>Endocrinology</i> , 2015, 156, 3169-3182.	1.4	113
16	The Potential of Probiotics as a Therapy for Osteoporosis. <i>Microbiology Spectrum</i> , 2017, 5, .	1.2	112
17	Inhibition of PPAR $\beta$ prevents type I diabetic bone marrow adiposity but not bone loss. <i>Journal of Cellular Physiology</i> , 2006, 209, 967-976.	2.0	106
18	Involvement of the Gut Microbiota and Barrier Function in Glucocorticoid-Induced Osteoporosis. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 801-820.	3.1	101

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19	Streptozotocin, Type I Diabetes Severity and Bone. <i>Biological Procedures Online</i> , 2009, 11, 296-315.	1.4	100
20	Simulated microgravity suppresses osteoblast phenotype, Runx2 levels and AP-1 transactivation. <i>Journal of Cellular Biochemistry</i> , 2003, 88, 427-437.	1.2	93
21	Bone and glucose metabolism: A two-way street. <i>Archives of Biochemistry and Biophysics</i> , 2010, 503, 2-10.	1.4	93
22	Extracellular glucose influences osteoblast differentiation and c-jun expression. <i>Journal of Cellular Biochemistry</i> , 2000, 79, 301-310.	1.2	90
23	<i>Lactobacillus reuteri</i> 6475 Increases Bone Density in Intact Females Only under an Inflammatory Setting. <i>PLoS ONE</i> , 2016, 11, e0153180.	1.1	81
24	Amelioration of type I diabetes-induced osteoporosis by parathyroid hormone is associated with improved osteoblast survival. <i>Journal of Cellular Physiology</i> , 2012, 227, 1326-1334.	2.0	73
25	Human bone marrow adiposity is linked with serum lipid levels not T1-diabetes. <i>Journal of Diabetes and Its Complications</i> , 2012, 26, 1-9.	1.2	69
26	Exercise prevents high fat diet-induced bone loss, marrow adiposity and dysbiosis in male mice. <i>Bone</i> , 2019, 118, 20-31.	1.4	69
27	MC3T3-E1 osteoblast attachment and proliferation on porous hydroxyapatite scaffolds fabricated with nanophase powder. <i>International Journal of Nanomedicine</i> , 2006, 1, 189-194.	3.3	67
28	Understanding the Skeletal Pathology of Type 1 and 2 Diabetes Mellitus. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2011, 21, 187-206.	0.4	67
29	The bone marrow microenvironment contributes to type I diabetes induced osteoblast death. <i>Journal of Cellular Physiology</i> , 2011, 226, 477-483.	2.0	67
30	Normal Bone Density Obtained in the Absence of Insulin Receptor Expression in Bone. <i>Endocrinology</i> , 2006, 147, 5760-5767.	1.4	64
31	Bone inflammation and altered gene expression with type I diabetes early onset. <i>Journal of Cellular Physiology</i> , 2009, 218, 575-583.	2.0	62
32	Advances in Probiotic Regulation of Bone and Mineral Metabolism. <i>Calcified Tissue International</i> , 2018, 102, 480-488.	1.5	61
33	Hypoxia suppresses runx2 independent of modeled microgravity. <i>Journal of Cellular Physiology</i> , 2004, 200, 169-176.	2.0	57
34	Bone tissue-specific transcription of the osteocalcin gene: Role of an activator osteoblast-specific complex and suppressor hox proteins that bind the OC box. <i>Journal of Cellular Biochemistry</i> , 1996, 61, 310-324.	1.2	55
35	Inflammatory bowel disease causes reversible suppression of osteoblast and chondrocyte function in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G1020-G1029.	1.6	55
36	Leptin treatment prevents type I diabetic marrow adiposity but not bone loss in mice. <i>Journal of Cellular Physiology</i> , 2009, 218, 376-384.	2.0	55

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37	Type I diabetic bone phenotype is location but not gender dependent. <i>Histochemistry and Cell Biology</i> , 2007, 128, 125-133.	0.8	54
38	Colitis-induced Bone Loss is Gender Dependent and Associated with Increased Inflammation. <i>Inflammatory Bowel Diseases</i> , 2013, 19, 1586-1597.	0.9	53
39	Hepatocyte growth factor (HGF) adsorption kinetics and enhancement of osteoblast differentiation on hydroxyapatite surfaces. <i>Biomaterials</i> , 2005, 26, 2595-2602.	5.7	48
40	Probiotics in Gut-Bone Signaling. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1033, 225-247.	0.8	47
41	Temporal and regional intestinal changes in permeability, tight junction, and cytokine gene expression following ovariectomy-induced estrogen deficiency. <i>Physiological Reports</i> , 2017, 5, e13263.	0.7	43
42	p38 and Activating Transcription Factor-2 Involvement in Osteoblast Osmotic Response to Elevated Extracellular Glucose. <i>Journal of Biological Chemistry</i> , 2002, 277, 37212-37218.	1.6	42
43	AP-1 and Vitamin D Receptor (VDR) Signaling Pathways Converge at the Rat Osteocalcin VDR Element: Requirement for the Internal Activating Protein-1 Site for Vitamin D-Mediated Trans-Activation**This work was supported by NIH Grants AR-45689, AR-39588, and DE-12528. The contents are solely the responsibility of the authors and do not necessarily represent the official views of the NIH.. <i>Endocrinology</i> , 2009, 140, 63-70.	1.4	41
44	Estrogen Deficiency Exacerbates Type 1 Diabetes-Induced Bone TNF- $\alpha$ Expression and Osteoporosis in Female Mice. <i>Endocrinology</i> , 2017, 158, 2086-2101.	1.4	39
45	Reduced gap junctional intercellular communication and altered biological effects in mouse osteoblast and rat liver oval cell lines transfected with dominant-negative connexin 43. <i>Molecular Carcinogenesis</i> , 2003, 37, 192-201.	1.3	38
46	Prolyl-hydroxylase inhibition and HIF activation in osteoblasts promotes an adipocytic phenotype. <i>Journal of Cellular Biochemistry</i> , 2007, 100, 762-772.	1.2	36
47	Epithelial Barrier Function in Gut-Bone Signaling. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1033, 151-183.	0.8	36
48	Microbiota Reconstitution Does Not Cause Bone Loss in Germ-Free Mice. <i>MSphere</i> , 2018, 3, .	1.3	36
49	$\beta$ 2-Arrestin-1 Deficiency Protects Mice from Experimental Colitis. <i>American Journal of Pathology</i> , 2013, 182, 1114-1123.	1.9	34
50	Both spontaneous $\beta$ 2 and streptozotocin-induced type I diabetes cause bone loss in young mice. <i>Journal of Cellular Physiology</i> , 2013, 228, 689-695.	2.0	31
51	Intestinal inflammation without weight loss decreases bone density and growth. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R1149-R1157.	0.9	31
52	CCAAT/enhancer-binding protein- $\beta$ has a role in osteoblast proliferation and differentiation. <i>Experimental Cell Research</i> , 2004, 295, 128-137.	1.2	30
53	Biaxial flexure testing of calcium phosphate bioceramics for use in tissue engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72A, 115-126.	3.0	29
54	CCAAT/enhancer binding protein $\beta$ -deficiency enhances type 1 diabetic bone phenotype by increasing marrow adiposity and bone resorption. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R1250-R1260.	0.9	29

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55	G Protein-Coupled Receptor Kinases in the Inflammatory Response and Signaling. <i>Advances in Immunology</i> , 2017, 136, 227-277.	1.1	29
56	Post-antibiotic gut dysbiosis-induced trabecular bone loss is dependent on lymphocytes. <i>Bone</i> , 2020, 134, 115269.	1.4	29
57	CCL3 and MMP-9 are induced by TL1A during death receptor 3 (TNFRSF25)-dependent osteoclast function and systemic bone loss. <i>Bone</i> , 2017, 97, 94-104.	1.4	28
58	Beneficial effects of <i>Lactobacillus reuteri</i> 6475 on bone density in male mice is dependent on lymphocytes. <i>Scientific Reports</i> , 2019, 9, 14708.	1.6	28
59	Bisphosphonate treatment of type I diabetic mice prevents early bone loss but accentuates suppression of bone formation. <i>Journal of Cellular Physiology</i> , 2015, 230, 1944-1953.	2.0	26
60	Inhibition of cross-bridge formation has no effect on contraction-associated phosphorylation of p38 MAPK in mouse skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C824-C830.	2.1	25
61	Enhanced production of early lineages of monocytic and granulocytic cells in mice with colitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16594-16599.	3.3	25
62	Quick and inexpensive paraffin-embedding method for dynamic bone formation analyses. <i>Scientific Reports</i> , 2017, 7, 42505.	1.6	25
63	ERAP1 deficient mice have reduced Type 1 regulatory T cells and develop skeletal and intestinal features of Ankylosing Spondylitis. <i>Scientific Reports</i> , 2018, 8, 12464.	1.6	24
64	Characterizing how probiotic <i>Lactobacillus reuteri</i> 6475 and lactobacillic acid mediate suppression of osteoclast differentiation. <i>Bone Reports</i> , 2019, 11, 100227.	0.2	22
65	Immunology of Gut-Bone Signaling. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1033, 59-94.	0.8	19
66	High Molecular Weight Polymer Promotes Bone Health and Prevents Bone Loss Under Salmonella Challenge in Broiler Chickens. <i>Frontiers in Physiology</i> , 2018, 9, 384.	1.3	19
67	Report of the CCFR Pediatric Bone, Growth and Muscle Health Workshop, New York City, November 11-12, 2011, With Updates. <i>Inflammatory Bowel Diseases</i> , 2013, 19, 2919-2926.	0.9	18
68	Low Dose Aspirin Therapy Decreases Blood Glucose Levels but Does not Prevent Type I Diabetes-induced Bone Loss. <i>Cellular Physiology and Biochemistry</i> , 2011, 28, 923-932.	1.1	17
69	2,3,7,8-Tetrachlorodibenzo-p-dioxin dose-dependently increases bone mass and decreases marrow adiposity in juvenile mice. <i>Toxicology and Applied Pharmacology</i> , 2018, 348, 85-98.	1.3	17
70	Adsorption of serum fetuin to hydroxylapatite does not contribute to osteoblast phenotype modifications. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 73A, 39-47.	2.1	14
71	Expression of cell growth and bone phenotypic genes during the cell cycle of normal diploid osteoblasts and osteosarcoma cells. <i>Journal of Cellular Biochemistry</i> , 1994, 56, 274-282.	1.2	13
72	The Osteocalcin Gene Promoter Provides a Molecular Blueprint for Regulatory Mechanisms Controlling Bone Tissue Formation: Role of Transcription Factors Involved in Development. <i>Connective Tissue Research</i> , 1996, 35, 15-21.	1.1	13

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73	Loss of interleukin-10 exacerbates early Type 1 diabetes-induced bone loss. <i>Journal of Cellular Physiology</i> , 2020, 235, 2350-2365.	2.0	12
74	G-protein-coupled receptor kinase-2 is a critical regulator of TNF signaling in colon epithelial cells. <i>Biochemical Journal</i> , 2017, 474, 2301-2313.	1.7	10
75	Adrenomedullin Increases AP-1 Expression in Rat Mesangial Cells via Activation of Protein Kinase-A and p38 MAPK. <i>Cellular Physiology and Biochemistry</i> , 2003, 13, 367-374.	1.1	9
76	Caspase-2 deficiency protects mice from diabetes-induced marrow adiposity. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 2403-2411.	1.2	9
77	Novel leptin receptor signaling mutants identify location and sex-dependent modulation of bone density, adiposity, and growth. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 4398-4408.	1.2	9
78	The effects of damage accumulation on the tensile strength and toughness of compact bovine bone. <i>Journal of Biomechanics</i> , 2013, 46, 964-972.	0.9	8
79	Surface microcracks signal osteoblasts to regulate alignment and bone formation. <i>Materials Science and Engineering C</i> , 2014, 44, 191-200.	3.8	8
80	Intestinal Microbiota and Bone Health: The Role of Prebiotics, Probiotics, and Diet. <i>Molecular and Integrative Toxicology</i> , 2017, , 417-443.	0.5	8
81	G protein-coupled receptor kinase-2-deficient mice are protected from dextran sodium sulfate-induced acute colitis. <i>Physiological Genomics</i> , 2018, 50, 407-415.	1.0	8
82	Oestrogen-deficiency induces bone loss by modulating CD14+ monocyte and CD4+ T cell DR3 expression and serum TL1A levels. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 326.	0.8	8
83	Switching fat from the periphery to bone marrow: why in Type I diabetes?. <i>Expert Review of Endocrinology and Metabolism</i> , 2009, 4, 203-207.	1.2	7
84	Cytokine and hormonal regulation of bone marrow immune cell Wnt10b expression. <i>PLoS ONE</i> , 2017, 12, e0181979.	1.1	7
85	Recent Advances in Intestinal Stem Cells. <i>Current Molecular Biology Reports</i> , 2017, 3, 143-148.	0.8	6
86	The Potential of Probiotics as a Therapy for Osteoporosis. , 0, , 213-233.		6
87	Regulation of Osteoblast Gene Expression and Phenotype by Polylactide-fatty Acid Surfaces. <i>Molecular Biology Reports</i> , 2006, 33, 1-12.	1.0	3
88	Role of G protein-coupled receptor kinase-6 in <i>Escherichia coli</i> lung infection model in mice. <i>Physiological Genomics</i> , 2017, 49, 682-689.	1.0	3
89	Alterations to the Gut Microbiome Prevent Glucocorticoid induced Osteoporosis. <i>FASEB Journal</i> , 2019, 33, 589.6.	0.2	1
90	Longitudinal effects of growth restriction on the murine gut microbiome and metabolome. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 323, E159-E170.	1.8	1

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91	Therapeutic Targeting of Gut-Bone Signaling to Treat Osteoporosis. , 2019, , 169-181.		0
92	Muscle Atrophy and Increased Atrogin-1 Occur in Fast- but not Slow-Muscle Early in Acute Streptozotocin-Induced Diabetes. FASEB Journal, 2008, 22, 959.7.	0.2	0
93	Effects of the Diabetic Microenvironment on Esp expression. FASEB Journal, 2013, 27, 1183.11.	0.2	0
94	Probiotic use decreases intestinal inflammation and increases bone density in healthy male but not female mice. FASEB Journal, 2013, 27, 951.4.	0.2	0
95	Bone Marrow Stem Cells and Bone Turnover in Diabetic Disease. , 2016, , 147-179.		0
96	Interleukin-10 in Type 1 Diabetes-Induced bone loss in mice. FASEB Journal, 2017, 31, 694.10.	0.2	0
97	Targeting the Intestine to Treat Osteoporosis. FASEB Journal, 2018, 32, .	0.2	0