Erica L Scheller

List of Publications by Citations

64 papers	3,055 citations	27 h-index	55 g-index
70 ext. papers	3,844 ext. citations	6.3 avg, IF	5.37 L-index

#	Paper	IF	Citations
64	Bone marrow adipose tissue is an endocrine organ that contributes to increased circulating adiponectin during caloric restriction. *Cell Metabolism*, **2014**, 20, 368-375	24.6	299
63	Adipose tissue stem cells meet preadipocyte commitment: going back to the future. *Journal of Lipid Research*, **2012**, 53, 227-46	6.3	276
62	Marrow fat and bone--new perspectives. *Journal of Clinical Endocrinology and Metabolism*, **2013**, 98, 935-45	5.6	254
61	Region-specific variation in the properties of skeletal adipocytes reveals regulated and constitutive marrow adipose tissues. *Nature Communications*, **2015**, 6, 7808	17.4	237
60	What's the matter with MAT? Marrow adipose tissue, metabolism, and skeletal health. *Annals of the New York Academy of Sciences*, **2014**, 1311, 14-30	6.5	150
59	Marrow Adipose Tissue: Trimming the Fat. *Trends in Endocrinology and Metabolism*, **2016**, 27, 392-403	8.8	131
58	Tissue engineering: state of the art in oral rehabilitation. *Journal of Oral Rehabilitation*, **2009**, 36, 368-89	3.4	125
57	Wnt/beta-catenin inhibits dental pulp stem cell differentiation. *Journal of Dental Research*, **2008**, 87, 126-30	8.1	108
56	Use of osmium tetroxide staining with microcomputerized tomography to visualize and quantify bone marrow adipose tissue in vivo. *Methods in Enzymology*, **2014**, 537, 123-39	1.7	105
55	Expansion of Bone Marrow Adipose Tissue During Caloric Restriction Is Associated With Increased Circulating Glucocorticoids and Not With Hypoleptinemia. *Endocrinology*, **2016**, 157, 508-21	4.8	84
54	Leptin functions peripherally to regulate differentiation of mesenchymal progenitor cells. *Stem Cells*, **2010**, 28, 1071-80	5.8	76
53	Adipose tissue stem cells: the great WAT hope. *Trends in Endocrinology and Metabolism*, **2012**, 23, 270-7	8.8	75
52	Artificial sweeteners stimulate adipogenesis and suppress lipolysis independently of sweet taste receptors. *Journal of Biological Chemistry*, **2013**, 288, 32475-32489	5.4	70
51	Changes in Skeletal Integrity and Marrow Adiposity during High-Fat Diet and after Weight Loss. *Frontiers in Endocrinology*, **2016**, 7, 102	5.7	59
50	Leptin does not directly affect CNS serotonin neurons to influence appetite. *Cell Metabolism*, **2011**, 13, 584-91	24.6	58
49	Plasma fluoride level as a predictor of voriconazole-induced periostitis in patients with skeletal pain. *Clinical Infectious Diseases*, **2014**, 59, 1237-45	11.6	56
48	Development, regulation, metabolism and function of bone marrow adipose tissues. *Bone*, **2018**, 110, 134-140	4.7	54

47	Bone marrow adipocytes resist lipolysis and remodeling in response to β-adrenergic stimulation. *Bone*, **2019**, 118, 32-41	4.7	52
46	Microneedle patch for the ultrasensitive quantification of protein biomarkers in interstitial fluid. *Nature Biomedical Engineering*, **2021**, 5, 64-76	19	52
45	Characterization of the bone marrow adipocyte niche with three-dimensional electron microscopy. *Bone*, **2019**, 118, 89-98	4.7	51
44	Nerves in Bone: Evolving Concepts in Pain and Anabolism. *Journal of Bone and Mineral Research*, **2019**, 34, 1393-1406	6.3	48
43	Bone marrow adipose tissue is a unique adipose subtype with distinct roles in glucose homeostasis. *Nature Communications*, **2020**, 11, 3097	17.4	43
42	Inside out: Bone marrow adipose tissue as a source of circulating adiponectin. *Adipocyte*, **2016**, 5, 251-69	3.2	41
41	Gene therapy: design and prospects for craniofacial regeneration. *Journal of Dental Research*, **2009**, 88, 585-96	8.1	41
40	Sweet taste receptor deficient mice have decreased adiposity and increased bone mass. *PLoS ONE*, **2014**, 9, e86454	3.7	39
39	The effects of Runx2 immobilization on poly (epsilon-caprolactone) on osteoblast differentiation of bone marrow stromal cells in vitro. *Biomaterials*, **2010**, 31, 3231-6	15.6	34
38	The use of nano-computed tomography to enhance musculoskeletal research. *Connective Tissue Research*, **2015**, 56, 106-19	3.3	29
37	Increased Circulating Adiponectin in Response to Thiazolidinediones: Investigating the Role of Bone Marrow Adipose Tissue. *Frontiers in Endocrinology*, **2016**, 7, 128	5.7	26
36	Bisphosphonates inhibit expression of p63 by oral keratinocytes. *Journal of Dental Research*, **2011**, 90, 894-9	8.1	23
35	Zoledronic acid inhibits macrophage SOCS3 expression and enhances cytokine production. *Journal of Cellular Biochemistry*, **2011**, 112, 3364-72	4.7	22
34	Reporting Guidelines, Review of Methodological Standards, and Challenges Toward Harmonization in Bone Marrow Adiposity Research. Report of the Methodologies Working Group of the International Bone Marrow Adiposity Society. *Frontiers in Endocrinology*, **2020**, 11, 65	5.7	21
33	Glucocorticoid Receptor Signaling Is Not Required for In Vivo Adipogenesis. *Endocrinology*, **2018**, 159, 2050-2061	4.8	21
32	Molecular Differences Between Subtypes of Bone Marrow Adipocytes. *Current Molecular Biology Reports*, **2018**, 4, 16-23	2	21
31	Ectopic expression of Col2.3 and Col3.6 promoters in the brain and association with leptin signaling. *Cells Tissues Organs*, **2011**, 194, 268-73	2.1	20
30	Ability of Dental Students to Deliver Oxygen in a Medical Emergency. *Journal of Dental Education*, **2009**, 73, 499-508	1.6	19

29	Gene therapy: implications for craniofacial regeneration. *Journal of Craniofacial Surgery*, **2012**, 23, 333-7	1.2	17
28	Effects of High-Fat Diet and Body Mass on Bone Morphology and Mechanical Properties in 1100 Advanced Intercross Mice. *Journal of Bone and Mineral Research*, **2019**, 34, 711-725	6.3	15
27	Administration of saccharin to neonatal mice influences body composition of adult males and reduces body weight of females. *Endocrinology*, **2014**, 155, 1313-26	4.8	15
26	A potential role for the myeloid lineage in leptin-regulated bone metabolism. *Hormone and Metabolic Research*, **2012**, 44, 1-5	3.1	15
25	Marrow Adipose Tissue Expansion Coincides with Insulin Resistance in MAGP1-Deficient Mice. *Frontiers in Endocrinology*, **2016**, 7, 87	5.7	14
24	Shared Autonomic Pathways Connect Bone Marrow and Peripheral Adipose Tissues Across the Central Neuraxis. *Frontiers in Endocrinology*, **2019**, 10, 668	5.7	13
23	Bone marrow adipose tissue does not express UCP1 during development or adrenergic-induced remodeling. *Scientific Reports*, **2019**, 9, 17427	4.9	13
22	Peripheral Neuropathy as a Component of Skeletal Disease in Diabetes. *Current Osteoporosis Reports*, **2019**, 17, 256-269	5.4	12
21	Congenital lipodystrophy induces severe osteosclerosis. *PLoS Genetics*, **2019**, 15, e1008244	6	12
20	Molecular differences between subtypes of bone marrow adipocytes. *Current Molecular Biology Reports*, **2018**, 4, 16-23	2	12
19	Evolution of the Marrow Adipose Tissue Microenvironment. *Calcified Tissue International*, **2017**, 100, 461-475	3.9	10
18	A Neuroskeletal Atlas: Spatial Mapping and Contextualization of Axon Subtypes Innervating the Long Bones of C3H and B6 Mice. *Journal of Bone and Mineral Research*, **2021**, 36, 1012-1025	6.3	10
17	Synchronous ipsilateral sebaceous lymphadenoma and membranous basal cell adenoma of the parotid. *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*, **2013**, 115, e41-6	2	9
16	Across Aging and Aplasia: A Digital Pathology Workflow for Quantification of Bone Marrow Compartments in Histological Sections. *Frontiers in Endocrinology*, **2020**, 11, 480	5.7	9
15	Contribution of metabolic disease to bone fragility in MAGP1-deficient mice. *Matrix Biology*, **2018**, 67, 1-14	11.4	7
14	Novel leptin receptor signaling mutants identify location and sex-dependent modulation of bone density, adiposity, and growth. *Journal of Cellular Biochemistry*, **2019**, 120, 4398-4408	4.7	7
13	Exploiting Self-Capacitances for Wireless Power Transfer. *IEEE Transactions on Biomedical Circuits and Systems*, **2019**, 13, 425-434	5.1	4
12	Neural regulation of bone marrow adipose tissue. *Best Practice and Research in Clinical Endocrinology and Metabolism*, **2021**, 35, 101522	6.5	3

List of Publications

11	A bone-specific adipogenesis pathway in fat-free mice defines key origins and adaptations of bone marrow adipocytes with age and disease. *ELife*, **2021**, 10,	8.9	3
10	Bone marrow adipose tissue is a unique adipose subtype with distinct roles in systemic glucose homeostasis		2
9	Refreshable Nanobiosensor Based on Organosilica Encapsulation of Biorecognition Elements. *ACS Applied Materials & Interfaces*, **2020**, 12, 5420-5428	9.5	2
8	Report From the 6 International Meeting on Bone Marrow Adiposity (BMA2020). *Frontiers in Endocrinology*, **2021**, 12, 712088	5.7	2
7	The use of soluble signals to harness the power of the bone microenvironment for implant therapeutics. *International Journal of Oral and Maxillofacial Implants*, **2011**, 26 Suppl, 70-9; discussion 80-4	2.8	1
6	Neuroskeletal Effects of Chronic Bioelectric Nerve Stimulation in Health and Diabetes. *Frontiers in Neuroscience*, **2021**, 15, 632768	5.1	1
5	A novel skeletal-specific adipogenesis pathway defines key origins and adaptations of bone marrow adipocytes with age and disease		1
4	A suspected dental cellulitis leading to diagnosis of both herpes zoster ophthalmicus and HIV. *Oral and Maxillofacial Surgery Cases*, **2015**, 1, 5-7	0.3	0
3	The Use of NanoComputed Tomography to Enhance Musculoskeletal Research. *Microscopy and Microanalysis*, **2014**, 20, 776-777	0.5	
2	Adipocytes and Bone **2018**, 974-982		
1	Oral Manifestations of Metabolic Bone Diseases **2018**, 941-948		