Maureen E Lynch

List of Publications by Year
in descending order

22 papers	944 citations	758635 12 h-index	794141 19 g-index
23 all docs	23 docs citations	23 times ranked	1404 citing authors

#	Article	IF	Citations
1	Mesenchymal stem cells and insulinâ€like growth factorâ€I geneâ€enhanced mesenchymal stem cells improve structural aspects of healing in equine flexor digitorum superficialis tendons. Journal of Orthopaedic Research, 2009, 27, 1392-1398.	1.2	216
2	Engineered Culture Models for Studies of Tumor-Microenvironment Interactions. Annual Review of Biomedical Engineering, 2013, 15, 29-53.	5.7	122
3	Tibial compression is anabolic in the adult mouse skeleton despite reduced responsiveness with aging. Bone, 2011, 49, 439-446.	1.4	108
4	Cancellous bone adaptation to tibial compression is not sex dependent in growing mice. Journal of Applied Physiology, 2010, 109, 685-691.	1.2	89
5	In vivo tibial compression decreases osteolysis and tumor formation in a human metastatic breast cancer model. Journal of Bone and Mineral Research, 2013, 28, 2357-2367.	3.1	88
6	Multiscale characterization of the mineral phase at skeletal sites of breast cancer metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10542-10547.	3.3	55
7	In vivo tibial stiffness is maintained by whole bone morphology and cross-sectional geometry in growing female mice. Journal of Biomechanics, 2010, 43, 2689-2694.	0.9	51
8	The predictive link between matrix and metastasis. Current Opinion in Chemical Engineering, 2016, 11, 85-93.	3.8	39
9	Load-induced changes in bone stiffness and cancellous and cortical bone mass following tibial compression diminish with age in female mice. Journal of Experimental Biology, 2014, 217, 1775-83.	0.8	37
10	Biomechanical forces in the skeleton and their relevance to bone metastasis: Biology and engineering considerations. Advanced Drug Delivery Reviews, 2014, 79-80, 119-134.	6.6	32
11	Three-Dimensional Mechanical Loading Modulates the Osteogenic Response of Mesenchymal Stem Cells to Tumor-Derived Soluble Signals. Tissue Engineering - Part A, 2016, 22, 1006-1015.	1.6	32
12	Mechanically-Loaded Breast Cancer Cells Modify Osteocyte Mechanosensitivity by Secreting Factors That Increase Osteocyte Dendrite Formation and Downstream Resorption. Frontiers in Endocrinology, 2018, 9, 352.	1.5	22
13	Perfusion applied to a 3D model of bone metastasis results in uniformly dispersed mechanical stimuli. Biotechnology and Bioengineering, 2018, 115, 1076-1085.	1.7	11
14	Microgravity-induced alterations of mouse bones are compartment- and site-specific and vary with age. Bone, 2021, 151, 116021.	1.4	11
15	Mechanical loading prevents bone destruction and exerts anti-tumor effects in the MOPC315.BM.Luc model of myeloma bone disease. Acta Biomaterialia, 2021, 119, 247-258.	4.1	9
16	Multiphysics simulation of a compressionâ€"perfusion combined bioreactor to predict the mechanical microenvironment during bone metastatic breast cancer loading experiments. Biotechnology and Bioengineering, 2021, 118, 1779-1792.	1.7	6
17	Mechanobiology of Bone Metastatic Cancer. Current Osteoporosis Reports, 2021, 19, 580-591.	1.5	6
18	The Role of Mechanobiology in Cancer Metastasis. , 2020, , 65-78.		3

#	Article	IF	Citations
19	Flow inside a bone scaffold: Visualization using 3D phase contrast MRI and comparison with numerical simulations. Journal of Biomechanics, 2021, 126, 110625.	0.9	3
20	Application of machine learning classifiers for microcomputed tomography data assessment of mouse bone microarchitecture. MethodsX, 2021, 8, 101497.	0.7	2
21	Bone Mechanics in Cancer. , 2020, , 445-457.		1
22	Mechanical Loading Shows Anti-Myeloma Effects While Rescuing Bone Loss with Net Bone Formation in a Myeloma Bone Disease Murine Model. Blood, 2018, 132, 3164-3164.	0.6	0