## Henry J Donahue

## List of Publications by Year in descending order

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| 1 | Cell Sensing and Response to Micro- and Nanostructured Surfaces Produced by Chemical and Topographic Patterning. Tissue Engineering, 2007, 13, 1879-1891. | 4.9 | 495 |
| :---: | :---: | :---: | :---: |
| 2 | Osteopontin Gene Regulation by Oscillatory Fluid Flow via Intracellular Calcium Mobilization and Activation of Mitogen-activated Protein Kinase in MC3T3â€"E1 Osteoblasts. Journal of Biological Chemistry, 2001, 276, 13365-13371. | 1.6 | 342 |
| 3 | Influence of substratum surface chemistrylenergy and topography on the human fetal osteoblastic cell line hFOB 1.19: Phenotypic and genotypic responses observed in vitroẫ†. Biomaterials, 2007, 28, 4535-4550. | 5.7 | 292 |
| 4 | Oscillating fluid flow activation of gap junction hemichannels induces atp release from MLO-Y4 osteocytes. Journal of Cellular Physiology, 2007, 212, 207-214. | 2.0 | 273 |
| 5 | Fluid Shear-Induced ATP Secretion Mediates Prostaglandin Release in MC3T3-E1 Osteoblasts. Journal of Bone and Mineral Research, 2005, 20, 41-49. | 3.1 | 236 |
| 6 | Functional Gap Junctions Between Osteocytic and Osteoblastic Cells. Journal of Bone and Mineral Research, 2010, 15, 209-217. | 3.1 | 228 |
| 7 | The regulation of integrin-mediated osteoblast focal adhesion and focal adhesion kinase expression by nanoscale topography. Biomaterials, 2007, 28, 1787-1797. | 5.7 | 225 |

24 Mechanisms contributing to fluid-flow-induced Ca2+ mobilization in articular chondrocytes. , 1999, 180, 402-408.
P2Y Purinoceptors Are Responsible for Oscillatory Fluid Flow-induced Intracellular Calcium
Mobilization in Osteoblastic Cells. Journal of Biological Chemistry, 2002, 277, 48724-48729.
Electric fields modulate bone cell funct
Mineral Research, 1993, 8, 977-984.
7530 Breast cancer cells induce osteoblast apoptosis: A possible contributor to bone degradation. Journalof Cellular Biochemistry, 2004, 91, 265-276.
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$\square$ATP Release Mediates Fluid Flow-Induced Proliferation of Human Bone Marrow Stromal Cells. Journalof Bone and Mineral Research, 2007, 22, 589-600.
74

Effect of surface nanoscale topography on elastic modulus of individual osteoblastic cells as
45
46

> Shifting Paradigms on the Role of Connexin43 in the Skeletal Response to Mechanical Load. Journal of

Bone and Mineral Research, 2014, 29, 275-286.
Thermoresponsive Terpolymeric Films Applicable for Osteoblastic Cell Growth and Noninvasive Cell
Sheet Harvesting. Tissue Engineering, 2005, 11, 30-40.
4.9 ..... 42
Alterations in Cx43 and OB-cadherin affect breast cancer cell metastatic potential. Clinical and
1.7

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1.1
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Simulated space radiation sensitizes bone but not muscle to the catabolic effects of mechanical
1.1
unloading. PLoS ONE, 2017, 12, e0182403.
Inhibition of GSK-3î2 Rescues the Impairments in Bone Formation and Mechanical Properties Associated
1.1

Porous Thermoresponsive-co-Biodegradable Hydrogels as Tissue-Engineering Scaffolds for
51 Porous Thermoresponsive-co-Biodegradable Hydrogeis as Tissue-Engineering Scaffolds for
4.9

38

Optimizing the osteogenic potential of adult stem cells for skeletal regeneration. Journal of
1.2

38
55 Estrogen Receptor Expression in Posterior Tibial Tendon Dysfunction: A Pilot Study. Foot and Ankle
57 Bone formation is not impaired by hibernation (disuse) in black bears Ursus americanus. Journal of
Experimental Biology, 2003, 206, 4233-4239.

$58 \quad$| Ageâ€related changes in gap junctional intercellular communication in osteoblastic cells. Journal of |
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| Orthopaedic Research, 2012, 30, 1979-1984. |

Specific Biomimetic Hydroxyapatite Nanotopographies Enhance Osteoblastic Differentiation and Bone
Graft Osteointegration. Tissue Engineering - Part A, 2013, 19, 1704-1712.
Purinergic signaling is required for fluid shear stress-induced NF-̂óB translocation in osteoblasts.
Experimental Cell Research, 2011, $317,737-744$.

Effects of membrane cholesterol depletion and GPlâ€enchored protein reduction on osteoblastic mechanotransduction. Journal of Cellular Physiology, 2011, 226, 2350-2359.
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74 mechanotransduction. Journal of Cellular Physiology, 2011, 226, 2350-2359.

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75 Electromagnetic fields in bone repair and adaptation. Radio Science, 1995, 30, 233-244.
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Single limb immobilization model for bone loss from unloading. Journal of Biomechanics, 2019, 83,
81 Functional and structural characterization of osteocytic MLO-Y4 cell proteins encoded by genes differentially expressed in response to mechanical signals in vitro. Scientific Reports, 2018, 8, 6716.
83 The Role of Fluid Shear and Metastatic Potential in Breast Cancer Cell Migration. Journal of
Biomechanical Engineering, 2020, 142, .
8536.Cycle number and waveform of fluid flow affect bovine articular chondrocytes. Biorheology, 2004,1.210
41, 315-22.Gap Junctions and Biophysical Regulation of Bone Cells. Clinical Reviews in Bone and Mineral1.3Metabolism, 2010, 8, 189-200.Mechanical Loading Attenuates Radiation-Induced Bone Loss in Bone Marrow Transplanted Mice. PLoSONE, 2016, 11, e0167673.

Benign Hypercalcemia*. Journal of Clinical Endocrinology and Metabolism, 1989, 68, 893-898.

Effect of carbonated hydroxyapatite submicron particles size on osteoblastic differentiation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1369-1379.

Hydroxyapatite Particle Density Regulates Osteoblastic Differentiation Through ${ }^{2}$-Catenin Translocation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 591084.

Time course of peri-implant bone regeneration around loaded and unloaded implants in a rat model.
Genetic variability affects the skeletal response to immobilization in founder strains of the diversity

outbred mouse population. Bone Reports, 2021, 15, 101140. $\quad$| 0.2 |
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| 98 | PARALLEL CHANGES IN EXTRACELLULAR MATRIX PROTEIN GENE EXPRESSION, BONE FORMATION AND <br> BIOMECHANICAL PROPERTIES IN AGING RAT BONE. Journal of Musculoskeletal Research, 2002, 06, 15 |
| :--- | :--- |
| 99 | Publishing the results of multiple experiments using the same methods and outcome measures. <br> Journal of Orthopaedic Research, 2011, 29, 155-156. |
| 100 | Fabrication and Characterization of Chitosan Based Injectable Thermosensitive Hydrogels Containing <br> Silica/Calcium Phosphate Nanocomposite Particles. Journal of Biomaterials and Nanobiotechnology, |

