

# William D Hill

## List of Publications by Citations

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52  
papers

5,522  
citations

19  
h-index

52  
g-index

52  
ext. papers

6,384  
ext. citations

4.3  
avg, IF

4.52  
L-index

#	Paper	IF	Citations
52	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
51	SDF-1 (CXCL12) is upregulated in the ischemic penumbra following stroke: association with bone marrow cell homing to injury. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2004</b> , 63, 84-96	3.1	312
50	Long-term antioxidant administration attenuates mineralocorticoid hypertension and renal inflammatory response. <i>Hypertension</i> , <b>2001</b> , 37, 781-6	8.5	201
49	MicroRNA-183-5p Increases with Age in Bone-Derived Extracellular Vesicles, Suppresses Bone Marrow Stromal (Stem) Cell Proliferation, and Induces Stem Cell Senescence. <i>Tissue Engineering - Part A</i> , <b>2017</b> , 23, 1231-1240	3.9	125
48	Age-related changes in the osteogenic differentiation potential of mouse bone marrow stromal cells. <i>Journal of Bone and Mineral Research</i> , <b>2008</b> , 23, 1118-28	6.3	85
47	A 3-Week Tryptophan-Deficient Diet Resulted in Decreased Body Weight and Increased Trabecular Bone Mass in Mice. <i>Innovation in Aging</i> , <b>2020</b> , 4, 122-123	0.1	78
46	AGE-ASSOCIATED INCREASE IN KYNURENINE INHIBITS AUTOPHAGY AND PROMOTES SENESCENCE IN BONE MARROW STEM CELLS. <i>Innovation in Aging</i> , <b>2019</b> , 3, S956-S956	0.1	78
45	PICOLINIC ACID, A TRYPTOPHAN METABOLITE, DOESN'T AFFECT BONE MINERAL DENSITY BUT UPREGULATES LIPID STORAGE GENES. <i>Innovation in Aging</i> , <b>2019</b> , 3, S100-S100	0.1	78
44	Rapamycin up-regulation of autophagy reduces infarct size and improves outcomes in both permanent MCAO, and embolic MCAO, murine models of stroke. <i>Experimental &amp; Translational Stroke Medicine</i> , <b>2014</b> , 6, 8		61
43	Kynurenine, a Tryptophan Metabolite That Accumulates With Age, Induces Bone Loss. <i>Journal of Bone and Mineral Research</i> , <b>2017</b> , 32, 2182-2193	6.3	61
42	Stromal cell-derived factor-1 $\beta$ mediates cell survival through enhancing autophagy in bone marrow-derived mesenchymal stem cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e58207	3.7	61
41	Human Mesenchymal Stem Cells Partially Reverse Infertility in Chemotherapy-Induced Ovarian Failure. <i>Reproductive Sciences</i> , <b>2018</b> , 25, 51-63	3	60
40	Oxidation of the aromatic amino acids tryptophan and tyrosine disrupts their anabolic effects on bone marrow mesenchymal stem cells. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 410, 87-96	4.4	44
39	Gait analysis in a pre- and post-ischemic stroke biomedical pig model. <i>Physiology and Behavior</i> , <b>2014</b> , 125, 8-16	3.5	38
38	Inkjet-based biopatterning of SDF-1 $\beta$ augments BMP-2-induced repair of critical size calvarial bone defects in mice. <i>Bone</i> , <b>2014</b> , 67, 95-103	4.7	36
37	Stromal cell-derived factor-1 $\beta$ potentiates bone morphogenetic protein-2-stimulated osteoinduction of genetically engineered bone marrow-derived mesenchymal stem cells in vitro. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 1-13	3.9	35
36	Kynurenine inhibits autophagy and promotes senescence in aged bone marrow mesenchymal stem cells through the aryl hydrocarbon receptor pathway. <i>Experimental Gerontology</i> , <b>2020</b> , 130, 110805	4.5	33

35	MicroRNAs-141 and 200a regulate the SVCT2 transporter in bone marrow stromal cells. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 410, 19-26	4.4	25
34	Mesenchymal stem cell expression of SDF-1 $\beta$ synergizes with BMP-2 to augment cell-mediated healing of critical-sized mouse calvarial defects. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 1806-1819	4.4	20
33	Amino acids as signaling molecules modulating bone turnover. <i>Bone</i> , <b>2018</b> , 115, 15-24	4.7	19
32	Knockdown of SVCT2 impairs in-vitro cell attachment, migration and wound healing in bone marrow stromal cells. <i>Stem Cell Research</i> , <b>2014</b> , 12, 354-63	1.6	19
31	MicroRNA-141-3p Negatively Modulates SDF-1 Expression in Age-Dependent Pathophysiology of Human and Murine Bone Marrow Stromal Cells. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2019</b> , 74, 1368-1374	6.4	18
30	Meta-Analysis and Evidence Base for the Efficacy of Autologous Bone Marrow Mesenchymal Stem Cells in Knee Cartilage Repair: Methodological Guidelines and Quality Assessment. <i>Stem Cells International</i> , <b>2019</b> , 2019, 3826054	5	17
29	The crucial role of vitamin C and its transporter (SVCT2) in bone marrow stromal cell autophagy and apoptosis. <i>Stem Cell Research</i> , <b>2015</b> , 15, 312-21	1.6	14
28	Aromatic amino acid activation of signaling pathways in bone marrow mesenchymal stem cells depends on oxygen tension. <i>PLoS ONE</i> , <b>2014</b> , 9, e91108	3.7	14
27	Total body irradiation is permissive for mesenchymal stem cell-mediated new bone formation following local transplantation. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 3212-27	3.9	14
26	Age-related increase of kynurenine enhances miR29b-1-5p to decrease both CXCL12 signaling and the epigenetic enzyme Hdac3 in bone marrow stromal cells. <i>Bone Reports</i> , <b>2020</b> , 12, 100270	2.6	12
25	Stromal cell-derived factor-1 (CXCL12) and its role in bone and muscle biology. <i>Cytokine</i> , <b>2019</b> , 123, 154783	4.3	12
24	What doesn't kill you makes you stranger: Dipeptidyl peptidase-4 (CD26) proteolysis differentially modulates the activity of many peptide hormones and cytokines generating novel cryptic bioactive ligands. <i>Pharmacology &amp; Therapeutics</i> , <b>2019</b> , 198, 90-108	13.9	12
23	Kynurenine Promotes RANKL-Induced Osteoclastogenesis In Vitro by Activating the Aryl Hydrocarbon Receptor Pathway. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	11
22	Role of MicroRNA-141 in the Aging Musculoskeletal System: A Current Overview. <i>Mechanisms of Ageing and Development</i> , <b>2019</b> , 178, 9-15	5.6	11
21	Caloric restriction and the adipokine leptin alter the SDF-1 signaling axis in bone marrow and in bone marrow derived mesenchymal stem cells. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 410, 64-72	4.4	10
20	Accumulation of kynurenine elevates oxidative stress and alters microRNA profile in human bone marrow stromal cells. <i>Experimental Gerontology</i> , <b>2020</b> , 130, 110800	4.5	9
19	Selective serotonin re-uptake inhibitor sertraline inhibits bone healing in a calvarial defect model. <i>International Journal of Oral Science</i> , <b>2018</b> , 10, 25	27.9	9
18	Kynurenine suppresses osteoblastic cell energetics in vitro and osteoblast numbers in vivo. <i>Experimental Gerontology</i> , <b>2020</b> , 130, 110818	4.5	8

17	A Tryptophan-Deficient Diet Induces Gut Microbiota Dysbiosis and Increases Systemic Inflammation in Aged Mice. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	8
16	MicroRNAs are critical regulators of senescence and aging in mesenchymal stem cells. <i>Bone</i> , <b>2021</b> , 142, 115679	4.7	8
15	Stromal cell-derived factor-1 as a potential therapeutic target for osteoarthritis and rheumatoid arthritis. <i>Therapeutic Advances in Chronic Disease</i> , <b>2019</b> , 10, 2040622319882531	4.9	7
14	Kynurenine induces an age-related phenotype in bone marrow stromal cells. <i>Mechanisms of Ageing and Development</i> , <b>2021</b> , 195, 111464	5.6	6
13	Picolinic acid, a tryptophan oxidation product, does not impact bone mineral density but increases marrow adiposity. <i>Experimental Gerontology</i> , <b>2020</b> , 133, 110885	4.5	3
12	Skeletal stem cells for bone development, homeostasis and repair: one or many?. <i>BoneKey Reports</i> , <b>2015</b> , 4, 769		3
11	Tryptophan-Kynurenine Pathway in COVID-19-Dependent Musculoskeletal Pathology: A Minireview. <i>Mediators of Inflammation</i> , <b>2021</b> , 2021, 2911578	4.3	3
10	Characterization of Differentially Expressed miRNAs by CXCL12/SDF-1 in Human Bone Marrow Stromal Cells. <i>Biomolecular Concepts</i> , <b>2021</b> , 12, 132-143	3.7	2
9	Age-associated changes in microRNAs affect the differentiation potential of human mesenchymal stem cells: Novel role of miR-29b-1-5p expression. <i>Bone</i> , <b>2021</b> , 153, 116154	4.7	2
8	KYNURENINE, AN ENDOGENOUS AHR AGONIST, UPREGULATES CXCL12- AND HDAC3-TARGETING MIRNAS INHIBITING OSTEOGENESIS. <i>Innovation in Aging</i> , <b>2019</b> , 3, S946-S947	0.1	1
7	Induction of Autophagy with rapamycin overcomes Bcl-2's deleterious effects on stroke outcome. <i>FASEB Journal</i> , <b>2013</b> , 27, lb514	0.9	1
6	Long Non-coding RNA MALAT1 Is Depleted With Age in Skeletal Muscle and MALAT1 Silencing Increases Expression of TGF- $\beta$ .. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 742004	4.6	0
5	AGE-ASSOCIATED INCREASE IN KYNURENINE SUPPRESSES AUTOPHAGY AND PROMOTES APOPTOSIS IN MESENCHYMAL STEM CELLS. <i>Innovation in Aging</i> , <b>2019</b> , 3, S107-S108	0.1	0
4	Diet and Stress Impair Ovarian Function in Mid-life, Increasing Risk of Chronic Diseases of Aging in Primates. <i>Innovation in Aging</i> , <b>2021</b> , 5, 682-682	0.1	
3	Exploring Spirituality, Loneliness and HRQoL In Hispanic Cancer Caregivers. <i>Innovation in Aging</i> , <b>2021</b> , 5, 690-691	0.1	
2	Tiny Bubbles; Composite Cocktails for Medical Applications. <i>International Journal of Applied Glass Science</i> , <b>2016</b> , 7, 164-172	1.8	
1	The Kynurenine Pathway Metabolites QA and KYNA induce senescence in Bone Marrow Stem Cells through the AhR Pathway. <i>Innovation in Aging</i> , <b>2021</b> , 5, 45-45	0.1	