

Izath Nizeet Aguilar

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

2,393
citations

236833

25
h-index

254106

43
g-index

103
all docs

103
docs citations

103
times ranked

2941
citing authors

#	ARTICLE	IF	CITATIONS
1	Megakaryocyte-Osteoblast Interaction Revealed in Mice Deficient in Transcription Factors GATA-1 and NF-E2. <i>Journal of Bone and Mineral Research</i> , 2003, 19, 652-660.	3.1	125
2	Impact of interactions of cellular components of the bone marrow microenvironment on hematopoietic stem and progenitor cell function. <i>Blood</i> , 2010, 115, 3239-3248.	0.6	115
3	A reciprocal regulatory interaction between megakaryocytes, bone cells, and hematopoietic stem cells. <i>Bone</i> , 2006, 39, 978-984.	1.4	102
4	Erythropoietin stimulates murine and human fibroblast growth factor-23, revealing novel roles for bone and bone marrow. <i>Haematologica</i> , 2017, 102, e427-e430.	1.7	93
5	Human phenotypes associated with GATA-1 mutations. <i>Gene</i> , 2008, 427, 1-6.	1.0	89
6	Megakaryocyte-mediated inhibition of osteoclast development. <i>Bone</i> , 2006, 39, 991-999.	1.4	78
7	The Changing Balance Between Osteoblastogenesis and Adipogenesis in Aging and its Impact on Hematopoiesis. <i>Current Osteoporosis Reports</i> , 2013, 11, 99-106.	1.5	75
8	The role of gap junctions in megakaryocyte-mediated osteoblast proliferation and differentiation. <i>Bone</i> , 2009, 44, 80-86.	1.4	67
9	Evolution of Bone Grafting: Bone Grafts and Tissue Engineering Strategies for Vascularized Bone Regeneration. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2015, 13, 232-244.	1.3	66
10	No pain, no gain? The effects of pain-promoting neuropeptides and neurotrophins on fracture healing. <i>Bone</i> , 2020, 131, 115109.	1.4	63
11	Immature and mature megakaryocytes enhance osteoblast proliferation and inhibit osteoclast formation. <i>Journal of Cellular Biochemistry</i> , 2010, 109, 774-781.	1.2	61
12	CD166 regulates human and murine hematopoietic stem cells and the hematopoietic niche. <i>Blood</i> , 2014, 124, 519-529.	0.6	61
13	Osteoblast lineage cells expressing high levels of Runx2 enhance hematopoietic progenitor cell proliferation and function. <i>Journal of Cellular Biochemistry</i> , 2010, 111, 284-294.	1.2	58
14	Development of a femoral non-union model in the mouse. <i>Injury</i> , 2008, 39, 1119-1126.	0.7	49
15	Involvement of integrins $\alpha 3 \beta 1$ and $\alpha 5 \beta 1$ and glycoprotein IIb in megakaryocyte-induced osteoblast proliferation. <i>Journal of Cellular Biochemistry</i> , 2010, 109, 927-932.	1.2	46
16	Effects of Bone Morphogenetic Protein-2 on Neovascularization During Large Bone Defect Regeneration. <i>Tissue Engineering - Part A</i> , 2019, 25, 1623-1634.	1.6	43
17	A review of mouse critical size defect models in weight bearing bones. <i>Bone</i> , 2013, 55, 241-247.	1.4	41
18	Osteomacs interact with megakaryocytes and osteoblasts to regulate murine hematopoietic stem cell function. <i>Blood Advances</i> , 2017, 1, 2520-2528.	2.5	41

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19	Hierarchical organization of osteoblasts reveals the significant role of CD166 in hematopoietic stem cell maintenance and function. <i>Bone</i> , 2013, 54, 58-67.	1.4	40
20	Impact of maturational status on the ability of osteoblasts to enhance the hematopoietic function of stem and progenitor cells. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 1111-1121.	3.1	36
21	Scaffold-free bioprinting of mesenchymal stem cells using the Regenova printer: Spheroid characterization and osteogenic differentiation. <i>Bioprinting</i> , 2019, 15, e00050.	2.9	32
22	Scaffold-free bioprinting of mesenchymal stem cells with the regenova printer: Optimization of printing parameters. <i>Bioprinting</i> , 2019, 15, e00048.	2.9	32
23	The effects of spaceflight and fracture healing on distant skeletal sites. <i>Scientific Reports</i> , 2019, 9, 11419.	1.6	30
24	Inhibition of CaMKK2 Enhances Fracture Healing by Stimulating Indian Hedgehog Signaling and Accelerating Endochondral Ossification. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 930-944.	3.1	29
25	Skeletal adaptations in young male mice after 4 weeks aboard the International Space Station. <i>Npj Microgravity</i> , 2019, 5, 21.	1.9	28
26	Osteoclast-mediated bone loss observed in a COVID-19 mouse model. <i>Bone</i> , 2022, 154, 116227.	1.4	28
27	Pyk2 regulates megakaryocyte-induced increases in osteoblast number and bone formation. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1434-1445.	3.1	27
28	Bibliometric and authorship trends over a 30 year publication history in two representative US sports medicine journals. <i>Heliyon</i> , 2020, 6, e03698.	1.4	27
29	Cell Adhesion Molecule CD166 Drives Malignant Progression and Osteolytic Disease in Multiple Myeloma. <i>Cancer Research</i> , 2016, 76, 6901-6910.	0.4	26
30	OSTEOBLASTS SUBJECTED TO SPACEFLIGHT AND SIMULATED SPACE SHUTTLE LAUNCH CONDITIONS. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2003, 39, 454.	0.7	25
31	Bibliometric Analysis of Gender Authorship Trends and Collaboration Dynamics Over 30 Years of Spine 1985 to 2015. <i>Spine</i> , 2018, 43, E849-E854.	1.0	25
32	Pyk2 and Megakaryocytes Regulate Osteoblast Differentiation and Migration Via Distinct and Overlapping Mechanisms. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 1396-1406.	1.2	24
33	Megakaryocytes Regulate Expression of Pyk2 Isoforms and Caspase-mediated Cleavage of Actin in Osteoblasts. <i>Journal of Biological Chemistry</i> , 2012, 287, 17257-17268.	1.6	23
34	Bibliometric Analysis of Female Authorship Trends and Collaboration Dynamics Over <i>JBMR</i>'s 30-Year History. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 2405-2414.	3.1	23
35	Dysfunctional stem and progenitor cells impair fracture healing with age. <i>World Journal of Stem Cells</i> , 2019, 11, 281-296.	1.3	23
36	Modulation of hematopoietic progenitor cell fate in vitro by varying collagen oligomer matrix stiffness in the presence or absence of osteoblasts. <i>Journal of Immunological Methods</i> , 2015, 425, 108-113.	0.6	22

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37	Experiments with osteoblasts cultured under hypergravity conditions. <i>Microgravity Science and Technology</i> , 2004, 15, 28-34.	0.7	21
38	Hematopoietic Cell Regulation of Osteoblast Proliferation and Differentiation. <i>Current Osteoporosis Reports</i> , 2011, 9, 96-102.	1.5	20
39	Experiments with osteoblasts cultured under varying orientations with respect to the gravity vector. <i>Cytotechnology</i> , 2002, 39, 147-154.	0.7	19
40	Bibliometric analysis of authorship trends and collaboration dynamics over the past three decades of BONE's publication history. <i>Bone</i> , 2018, 107, 27-35.	1.4	19
41	Authorship trends in the <i>Journal of Orthopaedic Research</i> : A bibliometric analysis. <i>Journal of Orthopaedic Research</i> , 2018, 36, 3071-3080.	1.2	19
42	A Bibliometric Study of Authorship and Collaboration Trends Over the Past 30 Years in Four Major Musculoskeletal Science Journals. <i>Calcified Tissue International</i> , 2019, 104, 239-250.	1.5	19
43	CD166 and regulation of hematopoiesis. <i>Current Opinion in Hematology</i> , 2013, 20, 273-280.	1.2	17
44	Cxcl12 Is Expressed on Osteoblasts and Osteoclasts and Is Important in Regulating Skeletal Homeostasis. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 959-969.	1.2	17
45	Aging negatively impacts the ability of megakaryocytes to stimulate osteoblast proliferation and bone mass. <i>Bone</i> , 2019, 127, 452-459.	1.4	17
46	Megakaryocyte and Osteoblast Interactions Modulate Bone Mass and Hematopoiesis. <i>Stem Cells and Development</i> , 2018, 27, 671-682.	1.1	16
47	Historical Analysis of Bibliometric Trends in the <i>Journal of Pediatric Orthopaedics</i> With a Particular Focus on Sex. <i>Journal of Pediatric Orthopaedics</i> , 2018, 38, e168-e171.	0.6	16
48	Megakaryocyte-Bone Cell Interactions. <i>Advances in Experimental Medicine and Biology</i> , 2009, 658, 31-41.	0.8	15
49	GATA1 Deficiency Rescues Trabecular but not Cortical Bone in OPG Deficient Mice. <i>Journal of Cellular Physiology</i> , 2015, 230, 783-790.	2.0	15
50	Pyk2 deficiency potentiates osteoblast differentiation and mineralizing activity in response to estrogen or raloxifene. <i>Molecular and Cellular Endocrinology</i> , 2018, 474, 35-47.	1.6	15
51	Assessment, Quantification, and Management of Fracture Pain: from Animals to the Clinic. <i>Current Osteoporosis Reports</i> , 2020, 18, 460-470.	1.5	15
52	The effects of GATA1 and NF- κ B2 deficiency on bone biomechanical, biochemical, and mineral properties. <i>Journal of Cellular Physiology</i> , 2013, 228, 1594-1600.	2.0	14
53	Signaling Pathways Involved in Megakaryocyte-Mediated Proliferation of Osteoblast Lineage Cells. <i>Journal of Cellular Physiology</i> , 2015, 230, 578-586.	2.0	14
54	Forces associated with launch into space do not impact bone fracture healing. <i>Life Sciences in Space Research</i> , 2018, 16, 52-62.	1.2	14

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55	Ageing-Related Reduced Expression of CXCR4 on Bone Marrow Mesenchymal Stromal Cells Contributes to Hematopoietic Stem and Progenitor Cell Defects. <i>Stem Cell Reviews and Reports</i> , 2020, 16, 684-692.	1.7	14
56	A Novel Role for Thrombopoietin in Regulating Osteoclast Development in Humans and Mice. <i>Journal of Cellular Physiology</i> , 2015, 230, 2142-2151.	2.0	13
57	Comparative Analysis of Bibliometric, Authorship, and Collaboration Trends Over the Past 30-Year Publication History of the Journal of Orthopaedic Trauma and Injury. <i>Journal of Orthopaedic Trauma</i> , 2018, 32, e327-e333.	0.7	13
58	Neonatal Osteomacs and Bone Marrow Macrophages Differ in Phenotypic Marker Expression and Function. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 1580-1593.	3.1	13
59	The role of megakaryocytes in skeletal homeostasis and rheumatoid arthritis. <i>Current Opinion in Rheumatology</i> , 2006, 18, 405-410.	2.0	12
60	Geneâ€œMetabolite Network Linked to Inhibited Bioenergetics in Association With Spaceflightâ€œInduced Loss of Male Mouse Quadriceps Muscle. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 2049-2057.	3.1	12
61	The loss of STAT3 in mature osteoclasts has detrimental effects on bone structure. <i>PLoS ONE</i> , 2020, 15, e0236891.	1.1	11
62	Comparative analysis of authorship trends in the Journal of Hand Surgery European and American volumes: A bibliometric analysis. <i>Annals of Medicine and Surgery</i> , 2020, 55, 200-206.	0.5	11
63	The effects of high fat diet, bone healing, and BMP-2 treatment on endothelial cell growth and function. <i>Bone</i> , 2021, 146, 115883.	1.4	11
64	The Interaction of the Inflammatory Response and Megakaryocytes in COVID-19 Infection. <i>Experimental Hematology</i> , 2021, 104, 32-39.	0.2	11
65	The Impacts of COVID-19 on Musculoskeletal Health. <i>Current Osteoporosis Reports</i> , 2022, 20, 213-225.	1.5	11
66	Development of a step-down method for altering male C57BL/6 mouse housing density and hierarchical structure: Preparations for spaceflight studies. <i>Life Sciences in Space Research</i> , 2018, 17, 44-50.	1.2	10
67	Soluble Immune Checkpoints Are Dysregulated in COVID-19 and Heavy Alcohol Users With HIV Infection. <i>Frontiers in Immunology</i> , 2022, 13, 833310.	2.2	10
68	Lnk Deficiency Leads to TPO-Mediated Osteoclastogenesis and Increased Bone Mass Phenotype. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 2231-2240.	1.2	9
69	Association of Urinary and Blood Concentrations of Heavy Metals with Measures of Bone Mineral Density Loss: a Data Mining Approach with the Results from the National Health and Nutrition Examination Survey. <i>Biological Trace Element Research</i> , 2021, 199, 92-101.	1.9	9
70	Analysis of the effects of spaceflight and local administration of thrombopoietin to a femoral defect injury on distal skeletal sites. <i>Npj Microgravity</i> , 2021, 7, 12.	1.9	9
71	DMSO regulates osteoclast development in vitro. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2011, 47, 260-267.	0.7	8
72	A comprehensive review of mouse diaphyseal femur fracture models. <i>Injury</i> , 2020, 51, 1439-1447.	0.7	8

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73	Cellular components of the hematopoietic niche and their regulation of hematopoietic stem cell function. <i>Current Opinion in Hematology</i> , 2021, 28, 243-250.	1.2	8
74	Methodology, selection, and integration of fracture healing assessments in mice. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2295-2309.	1.2	8
75	Tips and Techniques for Processing and Sectioning Undecalcified Murine Bone Specimens. <i>Methods in Molecular Biology</i> , 2014, 1130, 123-147.	0.4	8
76	The protooncogene function of Mdm2 in bone. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 8830-8840.	1.2	7
77	The effects of bone morphogenetic protein 2 and thrombopoietin treatment on angiogenic properties of endothelial cells derived from the lung and bone marrow of young and aged, male and female mice. <i>FASEB Journal</i> , 2021, 35, e21840.	0.2	7
78	Megakaryocytes promote osteoclastogenesis in aging. <i>Aging</i> , 2020, 12, 15121-15133.	1.4	7
79	Authorship Trends Over the Past 30-Years in the Annals of Biomedical Engineering. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1171-1180.	1.3	6
80	Internal Fixation Construct and Defect Size Affect Healing of a Translational Porcine Diaphyseal Tibial Segmental Bone Defect. <i>Military Medicine</i> , 2021, 186, e1115-e1123.	0.4	6
81	Megakaryocytes Enhance Mesenchymal Stromal Cells Proliferation and Inhibit Differentiation. <i>Journal of Cellular Biochemistry</i> , 2017, , .	1.2	5
82	No pain, no gain: Will migraine therapies increase bone loss and impair fracture healing?. <i>EBioMedicine</i> , 2020, 60, 103025.	2.7	5
83	Trends in Gender Authorship and Collaborations: A 30-Year Comparative Bibliometric Analysis of Manuscripts from The Journal of Bone and Joint Surgery and The Bone and Joint Journal. <i>Scientifica</i> , 2020, 2020, 1-11.	0.6	5
84	Bibliometric Analysis of the English Musculoskeletal Literature over the Last 30 Years. <i>Scientific World Journal, The</i> , 2021, 2021, 1-29.	0.8	5
85	Predicting fracture healing with blood biomarkers: the potential to assess patient risk of fracture nonunion. <i>Biomarkers</i> , 2021, 26, 703-717.	0.9	5
86	Gene-metabolite networks associated with impediment of bone fracture repair in spaceflight. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3507-3520.	1.9	5
87	The Effects of SRT1720 Treatment on Endothelial Cells Derived from the Lung and Bone Marrow of Young and Aged, Male and Female Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11097.	1.8	5
88	Processing and Sectioning Undecalcified Murine Bone Specimens. <i>Methods in Molecular Biology</i> , 2021, 2230, 231-257.	0.4	5
89	Cohousing Male Mice with and without Segmental Bone Defects. <i>Comparative Medicine</i> , 2018, 68, 131-138.	0.4	5
90	Murine Gut Microbiome Meta-analysis Reveals Alterations in Carbohydrate Metabolism in Response to Aging. <i>MSystems</i> , 2022, 7, e0124821.	1.7	5

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91	Effects of diet, BMP treatment, and femoral skeletal injury on endothelial cells derived from the ipsilateral and contralateral limbs. <i>Journal of Orthopaedic Research</i> , 2022, 40, 439-448.	1.2	4
92	Attenuation of CXCR4/SDF-1 Axis in Bone Marrow Mesenchymal Stromal Cells Impairs Hematopoietic Niche Activity and Promotes Stem Cell Aging. <i>Blood</i> , 2017, 130, 92-92.	0.6	4
93	Surgical Fixation Hardware for Regeneration of Long Bone Segmental Defects: Translating Large Animal Model and Human Experiences. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2015, 13, 222-231.	1.3	2
94	Defining Parameters Attributing to the Role of Osteomacs in Regulating Stem Cell Function and the Hematopoietic Niche. <i>Blood</i> , 2018, 132, 2576-2576.	0.6	2
95	Clinical applications of thrombopoietin silencing: A possible therapeutic role in COVID-19?. <i>Cytokine</i> , 2021, 146, 155634.	1.4	1
96	Hierarchical Organization of Osteoblasts and Their Impact on Hematopoietic Stem Cell Maintenance and Function.. <i>Blood</i> , 2010, 116, 1611-1611.	0.6	1
97	CD166 (ALCAM): A Functional Marker of Primitive Murine and Human Hematopoietic Stem Cells and Cellular Elements of Their Niche. <i>Blood</i> , 2012, 120, 640-640.	0.6	1
98	Calvariae-Resident Osteomacs That Are Phenotypically and Functionally Distinct from Marrow-Derived Macrophages Interact with Megakaryocytes to Regulate Hematopoietic Stem Cell Function. <i>Blood</i> , 2016, 128, 28-28.	0.6	1
99	Fixation of whole mouse hindlimbs using NASA spaceflight fixation kit. <i>Journal of Histotechnology</i> , 2017, 40, 115-120.	0.2	0
100	Bone Morphogenetic Protein-2 Rapidly Heals Two Distinct Critical Sized Segmental Diaphyseal Bone Defects in a Porcine Model. <i>Military Medicine</i> , 2023, 188, 117-124.	0.4	0
101	The Impact of Developmental Stage of Osteoblasts and Collagen Fibril Matrix Properties On Hematopoietic Stem Cell Function.. <i>Blood</i> , 2009, 114, 3638-3638.	0.6	0
102	Hierarchical Organization of Osteoblast Reveals the Significant Role of CD166 in Hematopoietic Stem Cell Maintenance and Function. <i>Blood</i> , 2012, 120, 215-215.	0.6	0
103	The Effects of TMP Treatment and High Fat Diet on Bone Fracture Healing. <i>Proceedings of IMPRS</i> , 2021, 4, .	0.0	0