Elazar Zelzer

List of Publications by Year
in descending order

46 papers	5,105 citations	159358 30 h-index	223531 46 g-index
57 all docs	57 docs citations	57 times ranked	5646 citing authors

#	ARTICLE	IF	CITATIONS
1	BCKDK regulates the TCA cycle through PDC in the absence of PDK family during embryonic development. Developmental Cell, 2021, 56, 1182-1194.e6.	3.1	10
2	More than movement: the proprioceptive system as a new regulator of musculoskeletal biology. Current Opinion in Physiology, 2021, 20, 77-89.	0.9	10
3	Application of 3D MAPs pipeline identifies the morphological sequence chondrocytes undergo and the regulatory role of GDF5 in this process. Nature Communications, 2021, 12, 5363.	5.8	9
4	Bi-fated tendon-to-bone attachment cells are regulated by shared enhancers and KLF transcription factors. ELife, 2021, 10, .	2.8	36
5	Immunofluorescent Staining of Adult Murine Paraffin-Embedded Skeletal Tissue. Methods in Molecular Biology, 2021, 2230, 337-344.	0.4	1
6	Piezo2 expressed in proprioceptive neurons is essential for skeletal integrity. Nature Communications, 2020, 11, 3168.	5.8	52
7	Bone morphology is regulated modularly by global and regional genetic programs. Development (Cambridge), 2019, 146, .	1.2	27
8	A novel nonosteocytic regulatory mechanism of bone modeling. PLoS Biology, 2019, 17, e3000140.	2.6	35
9	Common cellular origin and diverging developmental programs for different sesamoid bones. Development (Cambridge), 2019, 146, .	1.2	30
10	Development of migrating tendon-bone attachments involves replacement of progenitor populations. Development (Cambridge), 2018, 145, .	1.2	40
11	New functions for the proprioceptive system in skeletal biology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170327.	1.8	46
12	The Proprioceptive System Regulates Morphologic Restoration of Fractured Bones. Cell Reports, 2017, 20, 1775-1783.	2.9	21
13	The Proprioceptive System Masterminds Spinal Alignment: Insight into the Mechanism of Scoliosis. Developmental Cell, 2017, 42, 388-399.e3.	3.1	78
14	Mechanical regulation of musculoskeletal system development. Development (Cambridge), 2017, 144, 4271-4283.	1.2	112
15	Deposition of collagen type I onto skeletal endothelium reveals a new role for blood vessels in regulating bone morphology. Development (Cambridge), 2016, 143, 3933-3943.	1.2	57
16	Joint Development Involves a Continuous Influx of Gdf5-Positive Cells. Cell Reports, 2016, 15, 2577-2587.	2.9	147
17	Development of a subset of forelimb muscles and their attachment sites requires the ulnar-mammary syndrome gene<i>Tbx3</i>. DMM Disease Models and Mechanisms, 2016, 9, 1257-1269.	1.2	38
18	PTH Induces Systemically Administered Mesenchymal Stem Cells to Migrate to and Regenerate Spine Injuries. Molecular Therapy, 2016, 24, 318-330.	3.7	43

#	Article	IF	Citations
19	Transport of membrane-bound mineral particles in blood vessels during chicken embryonic bone development. Bone, 2016, 83, 65-72.	1.4	62
20	Vascular patterning regulates interdigital cell death by a ROS-mediated mechanism. Development (Cambridge), 2015, 142, 672-80.	1.2	15
21	A pathway to bone: signaling molecules and transcription factors involved in chondrocyte development and maturation. Development (Cambridge), 2015, 142, 817-831.	1.2	414
22	On the development of the patella. Development (Cambridge), 2015, 142, 1831-1839.	1.2	67
23	Isometric Scaling in Developing Long Bones Is Achieved by an Optimal Epiphyseal Growth Balance. PLoS Biology, 2015, 13, e1002212.	2.6	32
24	Endothelial cells regulate neural crest and second heart field morphogenesis. Biology Open, 2014, 3, 679-688.	0.6	19
25	Tendonâ€toâ€bone attachment: From development to maturity. Birth Defects Research Part C: Embryo Today Reviews, 2014, 102, 101-112.	3.6	146
26	A Mechanical Jack-like Mechanism Drives Spontaneous Fracture Healing in Neonatal Mice. Developmental Cell, 2014, 31, 159-170.	3.1	54
27	Nonradioactive In Situ Hybridization on Skeletal Tissue Sections. Methods in Molecular Biology, 2014, 1130, 203-215.	0.4	27
28	One load to rule them all: Mechanical control of the musculoskeletal system in development and aging. Differentiation, 2013, 86, 104-111.	1.0	51
29	Repositioning Forelimb Superficialis Muscles: Tendon Attachment and Muscle Activity Enable Active Relocation of Functional Myofibers. Developmental Cell, 2013, 26, 544-551.	3.1	47
30	Tendon-bone attachment unit is formed modularly by a distinct pool of <i>Scx</i>- and <i>Sox9</i>-positive progenitors. Development (Cambridge), 2013, 140, 2680-2690.	1.2	235
31	HIF1Î± is a central regulator of collagen hydroxylation and secretion under hypoxia during bone development. Development (Cambridge), 2012, 139, 4473-4483.	1.2	102
32	Muscle contraction controls skeletal morphogenesis through regulation of chondrocyte convergent extension. Developmental Biology, 2012, 370, 154-163.	0.9	108
33	Muscle force regulates bone shaping for optimal load-bearing capacity during embryogenesis. Development (Cambridge), 2011, 138, 3247-3259.	1.2	155
34	Connecting muscles to tendons: tendons and musculoskeletal development in flies and vertebrates. Development (Cambridge), 2010, 137, 2807-2817.	1.2	216
35	Connecting muscles to tendons: tendons and musculoskeletal development in flies and vertebrates. Development (Cambridge), 2010, 137, 3347-3347.	1.2	9
36	The forming limb skeleton serves as a signaling center for limb vasculature patterning via regulation of<i>Vegf</i>. Development (Cambridge), 2009, 136, 1263-1272.	1.2	97

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37	Muscle Contraction Is Necessary to Maintain Joint Progenitor Cell Fate. Developmental Cell, 2009, 16, 734-743.	3.1	230
38	Bone Ridge Patterning during Musculoskeletal Assembly Is Mediated through SCX Regulation of Bmp4 at the Tendon-Skeleton Junction. Developmental Cell, 2009, 17, 861-873.	3.1	270
39	HIF1Î± regulation of<i>Sox9</i>is necessary to maintain differentiation of hypoxic prechondrogenic cells during early skeletogenesis. Development (Cambridge), 2007, 134, 3917-3928.	1.2	260
40	Multiple Roles of Vascular Endothelial Growth Factor (VEGF) in Skeletal Development, Growth, and Repair. Current Topics in Developmental Biology, 2004, 65, 169-187.	1.0	193
41	VEGFA is necessary for chondrocyte survival during bone development. Development (Cambridge), 2004, 131, 2161-2171.	1.2	347
42	The genetic basis for skeletal diseases. Nature, 2003, 423, 343-348.	13.7	248
43	Skeletal defects in VEGF120/120 mice reveal multiple roles for VEGF in skeletogenesis. Development (Cambridge), 2002, 129, 1893-1904.	1.2	387
44	Skeletal defects in VEGF(120/120) mice reveal multiple roles for VEGF in skeletogenesis. Development (Cambridge), 2002, 129, 1893-904.	1.2	145
45	Tissue specific regulation of VEGF expression during bone development requires Cbfa1/Runx2. Mechanisms of Development, 2001, 106, 97-106.	1.7	315
46	Cell fate choices in Drosophila tracheal morphogenesis. BioEssays, 2000, 22, 219-226.	1.2	54