Colin Farquharson

List of Publications by Year
in descending order

186 papers	6,930 citations	50276 46 h-index	82547 72 g-index
193 all docs	193 docs citations	193 times ranked	7606 citing authors

#	Article	IF	Citations
1	Total Protein Analysis as a Reliable Loading Control for Quantitative Fluorescent Western Blotting. PLoS ONE, 2013, 8, e72457.	2.5	300
2	The Appearance and Modulation of Osteocyte Marker Expression during Calcification of Vascular Smooth Muscle Cells. PLoS ONE, 2011, 6, e19595.	2.5	237
3	Loss of skeletal mineralization by the simultaneous ablation of PHOSPHO1 and alkaline phosphatase function: A unified model of the mechanisms of initiation of skeletal calcification. Journal of Bone and Mineral Research, 2011, 26, 286-297.	2.8	199
4	The importance of the SIBLING family of proteins on skeletal mineralisation and bone remodelling. Journal of Endocrinology, 2012, 214, 241-255.	2.6	181
5	Functional Involvement of PHOSPHO1 in Matrix Vesicle-Mediated Skeletal Mineralization. Journal of Bone and Mineral Research, 2007, 22, 617-627.	2.8	153
6	Skeletal development in the meat-type chicken. British Poultry Science, 2000, 41, 141-149.	1.7	134
7	Characterisation of matrix vesicles in skeletal and soft tissue mineralisation. Bone, 2016, 87, 147-158.	2.9	133
8	Kinetic analysis of substrate utilization by native and TNAP-, NPP1-, or PHOSPHO1-deficient matrix vesicles. Journal of Bone and Mineral Research, 2010, 25, 716-723.	2.8	118
9	Bone Strength During Growth: Influence of Growth Rate on Cortical Porosity and Mineralization. Calcified Tissue International, 2004, 74, 236-245.	3.1	116
10	Altered Bone Development and an Increase in FGF-23 Expression in Enpp1âˆ’/âˆ’ Mice. PLoS ONE, 2012, 7, e32177.	2.5	115
11	The effect of GH and IGF1 on linear growth and skeletal development and their modulation by SOCS proteins. Journal of Endocrinology, 2010, 206, 249-259.	2.6	114
12	Human PHOSPHO1 exhibits high specific phosphoethanolamine and phosphocholine phosphatase activities. Biochemical Journal, 2004, 382, 59-65.	3.7	111
13	Growth and the Growth Hormone-Insulin Like Growth Factor 1 Axis in Children With Chronic Inflammation: Current Evidence, Gaps in Knowledge, and Future Directions. Endocrine Reviews, 2016, 37, 62-110.	20.1	104
14	The role of sex steroids in controlling pubertal growth. Clinical Endocrinology, 2008, 68, 4-15.	2.4	103
15	Mechanisms and Clinical Consequences of Vascular Calcification. Frontiers in Endocrinology, 2012, 3, 95.	3.5	98
16	Endocrine role of bone: recent and emerging perspectives beyond osteocalcin. Journal of Endocrinology, 2015, 225, R1-R19.	2.6	95
17	Chondrocytes and Longitudinal Bone Growth: The Development of Tibial Dyschondroplasia. Poultry Science, 2000, 79, 994-1004.	3.4	94
18	The restricted potential for recovery of growth plate chondrogenesis and longitudinal bone growth following exposure to pro-inflammatory cytokines. Journal of Endocrinology, 2006, 189, 319-328.	2.6	93

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19	PHOSPHO1â€"A novel phosphatase specifically expressed at sites of mineralisation in bone and cartilage. Bone, 2004, 34, 629-637.	2.9	89
20	Excretion of pyridinium cross-links of collagen in ovariectomized rats as urinary markers for increased bone resorption. Calcified Tissue International, 1989, 44, 343-347.	3.1	80
21	The presence of PHOSPHO1 in matrix vesicles and its developmental expression prior to skeletal mineralization. Bone, 2006, 39, 1000-1007.	2.9	79
22	Cell proliferation and enzyme activities associated with the development of avian tibial dyschondroplasia: An in situ biochemical study. Bone, 1992, 13, 59-67.	2.9	74
23	PHOSPHO1 is essential for mechanically competent mineralization and the avoidance of spontaneous fractures. Bone, 2011, 48, 1066-1074.	2.9	71
24	The pathophysiology of the growth plate in juvenile idiopathic arthritis. Rheumatology, 2006, 45, 11-19.	1.9	69
25	Inflammatory cytokines and the GH/IGFâ€ł axis: novel actions on bone growth. Cell Biochemistry and Function, 2009, 27, 119-127.	2.9	68
26	Glucocorticoid effects on chondrogenesis, differentiation and apoptosis in the murine ATDC5 chondrocyte cell line. Journal of Endocrinology, 2002, 175, 705-713.	2.6	67
27	Cartilage to bone transitions in health and disease. Journal of Endocrinology, 2013, 219, R1-R12.	2.6	67
28	ENPP1 in the Regulation of Mineralization and Beyond. Trends in Biochemical Sciences, 2019, 44, 616-628.	7.5	67
29	The control of chondrocyte differentiation during endochondral bone growth in vivo: changes in TGF-Î² and the proto-oncogene c-<i>myc</i>. Journal of Cell Science, 1993, 105, 949-956.	2.0	67
30	Insulin-Like Growth Factor-I Augments Chondrocyte Hypertrophy and Reverses Glucocorticoid-Mediated Growth Retardation in Fetal Mice Metatarsal Cultures. Endocrinology, 2004, 145, 2478-2486.	2.8	64
31	End stage renal diseaseâ€induced hypercalcemia may promote aortic valve calcification via Annexin VI enrichment of valve interstitial cell derivedâ€matrix vesicles. Journal of Cellular Physiology, 2017, 232, 2985-2995.	4.1	64
32	Chondrogenic ATDC5 cells: An optimised model for rapid and physiological matrix mineralisation. International Journal of Molecular Medicine, 2012, 30, 1187-1193.	4.0	63
33	Identification and cloning of a novel phosphatase expressed at high levels in differentiating growth plate chondrocytes1The nucleotide sequence has been deposited in the EMBL database under accession number AJ006529.1. Biochimica Et Biophysica Acta - Molecular Cell Research, 1999, 1448, 500-506.	4.1	61
34	Cytokine actions in growth disorders associated with pediatric chronic inflammatory diseases (Review). International Journal of Molecular Medicine, 2006, 18, 1011-8.	4.0	61
35	Dexamethasone-induced expression of the glucocorticoid response gene lipocalin 2 in chondrocytes. American Journal of Physiology - Endocrinology and Metabolism, 2008, 294, E1023-E1034.	3.5	60
36	A protective role for FGF-23 in local defence against disrupted arterial wall integrity?. Molecular and Cellular Endocrinology, 2013, 372, 1-11.	3.2	59

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37	Inhibition of PHOSPHO1 activity results in impaired skeletal mineralization during limb development of the chick. Bone, 2010, 46, 1146-1155.	2.9	57
38	<scp>BMP</scp>â€9 regulates the osteoblastic differentiation and calcification of vascular smooth muscle cells through an <scp>ALK</scp>1 mediated pathway. Journal of Cellular and Molecular Medicine, 2015, 19, 165-174.	3.6	56
39	Avian tibial dyschondroplasia: The interaction of genetic selection and dietary 1,25 â€dihydroxycholecalciferol. Avian Pathology, 1993, 22, 311-324.	2.0	55
40	The growth plate sparing effects of the selective glucocorticoid receptor modulator, AL-438. Molecular and Cellular Endocrinology, 2007, 264, 164-170.	3.2	55
41	Extracellular Matrix Mineralization Promotes E11/gp38 Glycoprotein Expression and Drives Osteocytic Differentiation. PLoS ONE, 2012, 7, e36786.	2.5	54
42	Skeletal Mineralization Deficits and Impaired Biogenesis and Function of Chondrocyte-Derived Matrix Vesicles in <i>Phospho1</i>â€“/â€“ and <i>Phospho1/Pit1</i> Double-Knockout Mice. Journal of Bone and Mineral Research, 2016, 31, 1275-1286.	2.8	53
43	Pharmacological inhibition of PHOSPHO1 suppresses vascular smooth muscle cell calcification. Journal of Bone and Mineral Research, 2013, 28, 81-91.	2.8	52
44	Phospholipase C-eta Enzymes as Putative Protein Kinase C and Ca²⁺ Signalling Components in Neuronal and Neuroendocrine Tissues. Neuroendocrinology, 2007, 86, 243-248.	2.5	50
45	Compounded PHOSPHO1/ALPL Deficiencies Reduce Dentin Mineralization. Journal of Dental Research, 2013, 92, 721-727.	5.2	49
46	Sodium fluoride induces apoptosis and alters bcl-2 family protein expression in MC3T3-E1 osteoblastic cells. Biochemical and Biophysical Research Communications, 2011, 410, 910-915.	2.1	47
47	An Investigation of the Mineral in Ductile and Brittle Cortical Mouse Bone. Journal of Bone and Mineral Research, 2015, 30, 786-795.	2.8	47
48	Microtubules are potential regulators of growth-plate chondrocyte differentiation and hypertrophy. Bone, 1999, 25, 405-412.	2.9	46
49	The role of miRâ€29 family in disease. Journal of Cellular Biochemistry, 2021, 122, 696-715.	2.6	46
50	Dietary effects on bone quality and turnover, and Ca and P metabolism in chickens. Research in Veterinary Science, 2000, 69, 81-87.	1.9	45
51	Ascorbic acid-induced chondrocyte terminal differentiation: the role of the extracellular matrix and 1,25-dihydroxyvitamin D. European Journal of Cell Biology, 1998, 76, 110-118.	3.6	44
52	How To Build a Bone: PHOSPHO1, Biomineralization, and Beyond. JBMR Plus, 2019, 3, e10202.	2.7	44
53	The proto-oncogene C-myc is involved in cell differentiation as well as cell proliferation: Studies on growth plate chondrocytes in situ. Journal of Cellular Physiology, 1992, 152, 135-144.	4.1	43
54	Further Observations on Programmed Cell Death in the Epiphyseal Growth Plate: Comparison of Normal and Dyschondroplastic Epiphyses. Journal of Bone and Mineral Research, 1997, 12, 1647-1656.	2.8	42

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55	Comparative modelling of human PHOSPHO1 reveals a new group of phosphatases within the haloacid dehalogenase superfamily. Protein Engineering, Design and Selection, 2003, 16, 889-895.	2.1	42
56	The electrical resistivity structure of Archean to Tertiary lithosphere along 3200 km of SNORCLE profiles, northwestern Canada. Canadian Journal of Earth Sciences, 2005, 42, 1257-1275.	1.3	42
57	MEPE is a novel regulator of growth plate cartilage mineralization. Bone, 2012, 51, 418-430.	2.9	42
58	Identification of novel regulators of osteoblast matrix mineralization by time series transcriptional profiling. Journal of Bone and Mineral Metabolism, 2014, 32, 240-251.	2.7	42
59	Ablation of Osteopontin Improves the Skeletal Phenotype of <i>Phospho1</i> <i>âˆ’/âˆ’</i> Mice. Journal of Bone and Mineral Research, 2014, 29, 2369-2381.	2.8	42
60	Enhanced phosphocholine metabolism is essential for terminal erythropoiesis. Blood, 2018, 131, 2955-2966.	1.4	42
61	Regulators of chondrocyte differentiation in tibial dyschondroplasia: An in vivo and in vitro study. Bone, 1995, 17, 279-286.	2.9	41
62	Increased bone mass, altered trabecular architecture and modified growth plate organization in the growing skeleton of SOCS2 deficient mice. Journal of Cellular Physiology, 2009, 218, 276-284.	4.1	39
63	IGF-I signalling in bone growth: Inhibitory actions of dexamethasone and IL-1Î². Growth Hormone and IGF Research, 2007, 17, 435-439.	1.1	38
64	In vivo effect of 1,25-dihydroxycholecalciferol on the proliferation and differentiation of avian chondrocytes. Journal of Bone and Mineral Research, 1993, 8, 1081-1088.	2.8	38
65	Animal models to explore the effects of glucocorticoids on skeletal growth and structure. Journal of Endocrinology, 2018, 236, R69-R91.	2.6	38
66	Identification of a novel class of mammalian phosphoinositol-specific phospholipase C enzymes. International Journal of Molecular Medicine, 2005, 15, 117-21.	4.0	38
67	Endochondral Growth Defect and Deployment of Transient Chondrocyte Behaviors Underlie Osteoarthritis Onset in a Natural Murine Model. Arthritis and Rheumatology, 2016, 68, 880-891.	5.6	37
68	Skeletal energy homeostasis: a paradigm of endocrine discovery. Journal of Endocrinology, 2017, 234, R67-R79.	2.6	37
69	The Effects of Copper Deficiency on the Pyridinium Crosslinks of Mature Collagen in the Rat Skeleton and Cardiovascular System. Experimental Biology and Medicine, 1989, 192, 166-171.	2.4	36
70	Phospho1 deficiency transiently modifies bone architecture yet produces consistent modification in osteocyte differentiation and vascular porosity with ageing. Bone, 2015, 81, 277-291.	2.9	36
71	Cell proliferation within the growth plate of long bones assessed by bromodeoxyuridine uptake and its relationship to glucose 6-phosphate dehydrogenase activity. Bone and Mineral, 1990, 10, 121-130.	1.9	35
72	Extracellular fatty acid binding protein (Ex-FABP) modulation by inflammatory agents: â€œphysiologicalâ€• acute phase response in endochondral bone formation. European Journal of Cell Biology, 2000, 79, 155-164.	3.6	35

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73	Cartilage development and degeneration: a Wnt Wnt situation. Cell Biochemistry and Function, 2012, 30, 633-642.	2.9	35
74	Elevated expression of hypoxia inducible factorâ€2Î± in terminally differentiating growth plate chondrocytes. Journal of Cellular Physiology, 2006, 206, 435-440.	4.1	34
75	Reference point indentation is not indicative of whole mouse bone measures of stress intensity fracture toughness. Bone, 2014, 69, 174-179.	2.9	34
76	Alterations in glycosaminoglycan concentration and sulfation during chondrocyte maturation. Calcified Tissue International, 1994, 54, 296-303.	3.1	33
77	Growth plate chondrocyte vitamin D receptor number and affinity are reduced in avian tibial dyschondroplastic lesions. Bone, 1996, 19, 197-203.	2.9	32
78	Probing the substrate specificities of human PHOSPHO1 and PHOSPHO2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1752, 73-82.	2.3	32
79	Inflammation and linear bone growth: the inhibitory role of SOCS2 on GH/IGF-1 signaling. Pediatric Nephrology, 2013, 28, 547-556.	1.7	32
80	A cell shrinkage artefact in growth plate chondrocytes with common fixative solutions: importance of fixative osmolarity for maintaining morphology. , 2010, 19, 214-227.		32
81	A Guide to Modern Quantitative Fluorescent Western Blotting with Troubleshooting Strategies. Journal of Visualized Experiments, 2014, , e52099.	0.3	31
82	Regulation of Chondrocyte Terminal Differentiation in the Postembryonic Growth Plate: The Role of the PTHrP-Indian Hedgehog Axis. Endocrinology, 2001, 142, 4131-4140.	2.8	29
83	SOCS2 is the critical regulator of GH action in murine growth plate chondrogenesis. Journal of Bone and Mineral Research, 2012, 27, 1055-1066.	2.8	29
84	Observations on the pancreas of cattle deficient in copper. Journal of Comparative Pathology, 1985, 95, 573-590.	0.4	28
85	Hypomorphic conditional deletion of E11/Podoplanin reveals a role in osteocyte dendrite elongation. Journal of Cellular Physiology, 2017, 232, 3006-3019.	4.1	28
86	Deer Antler Does Not Represent a Typical Endochondral Growth System: Immunoidentification of Collagen Type X but Little Collagen Type II in Growing Antler Tissue. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 118, 303-308.	1.6	27
87	Identification of a Family of Noncanonical Ubiquitin-Conjugating Enzymes Structurally Related to Yeast UBC6. Biochemical and Biophysical Research Communications, 2000, 269, 474-480.	2.1	27
88	Expression patterns of chondrocyte genes cloned by differential display in tibial dyschondroplasia. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2000, 1501, 180-188.	3.8	27
89	The functional co-operativity of tissue-nonspecific alkaline phosphatase (TNAP) and PHOSPHO1 during initiation of skeletal mineralization.. Biochemistry and Biophysics Reports, 2015, 4, 196-201.	1.3	26
90	PLA₂and ENPP6 may act in concert to generate phosphocholine from the matrix vesicle membrane during skeletal mineralization. FASEB Journal, 2018, 32, 20-25.	0.5	26

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91	Immunolocalization of collagen types I and III in the arterial wall of the rat. The Histochemical Journal, 1989, 21, 172-178.	0.6	25
92	Differentiation and mineralization in chick chondrocytes maintained in a high cell density culture: A model for endochondral ossification. In Vitro Cellular and Developmental Biology - Animal, 1995, 31, 288-294.	1.5	25
93	Interaction between dietary 1,25â€dihydroxycholecalciferol and calcium and effects of management on the occurrence of tibial dyschondroplasia, leg abnormalities and performance in broiler chickens. British Poultry Science, 1995, 36, 465-477.	1.7	25
94	Deep electrical conductivity structures of the Appalachian Orogen in the southeastern U.S.. Geophysical Research Letters, 1996, 23, 1597-1600.	4.0	25
95	Expression of type X collagen, Indian hedgehog and parathyroid hormone related-protein in normal and tibial dyschondroplastic chick growth plates. Avian Pathology, 2003, 32, 69-80.	2.0	25
96	Quantitative atomic force microscopy provides new insight into matrix vesicle mineralization. Archives of Biochemistry and Biophysics, 2019, 667, 14-21.	3.0	25
97	Ceramide inhibition of chondrocyte proliferation and bone growth is IGF-I independent. Journal of Endocrinology, 2006, 191, 369-377.	2.6	24
98	Genetic selection for fast growth generates bone architecture characterised by enhanced periosteal expansion and limited consolidation of the cortices but a diminution in the early responses to mechanical loading. Bone, 2009, 45, 357-366.	2.9	24
99	Expression of Sulf1 and Sulf2 in cartilage, bone and endochondral fracture healing. Histochemistry and Cell Biology, 2016, 145, 67-79.	1.7	24
100	The control of chondrocyte differentiation during endochondral bone growth in vivo: changes in TGF-beta and the proto-oncogene c-myc. Journal of Cell Science, 1993, 105 (Pt 4), 949-56.	2.0	24
101	FGF-2 promotes osteocyte differentiation through increased E11/podoplanin expression. Journal of Cellular Physiology, 2018, 233, 5334-5347.	4.1	23
102	Differences in metabolic parameters and gene expression related to Osteochondrosis/Osteoarthrosis in pigs fed 25-hydroxyvitamin D3. Veterinary Research, 2002, 33, 383-396.	3.0	23
103	Design, synthesis and evaluation of benzoisothiazolones as selective inhibitors of PHOSPHO1. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4308-4311.	2.2	22
104	E11/Podoplanin Protein Stabilization Through Inhibition of the Proteasome Promotes Osteocyte Differentiation in Murine in Vitro Models. Journal of Cellular Physiology, 2016, 231, 1392-1404.	4.1	22
105	Role of PHOSPHO1 in Periodontal Development and Function. Journal of Dental Research, 2016, 95, 742-751.	5.2	22
106	Studies on growth plate chondrocytes <i>in situ:</i> cell proliferation and differentiation. Acta Paediatrica, International Journal of Paediatrics, 1993, 82, 42-48.	1.5	21
107	Deficiency of the bone mineralization inhibitor NPP1 protects against obesity and diabetes. DMM Disease Models and Mechanisms, 2014, 7, 1341-50.	2.4	21
108	MMP and TIMP temporal gene expression during osteocytogenesis. Gene Expression Patterns, 2015, 18, 29-36.	0.8	21

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109	A distinctive patchy osteomalacia characterises <i>Phospho1</i>â€deficient mice. Journal of Anatomy, 2017, 231, 298-308.	1.5	21
110	Evidence of ultracytochemical mitochondria-derived hydrogen peroxide activity in myocardial cells from broiler chickens with an ascites syndrome. Research in Veterinary Science, 1996, 61, 7-12.	1.9	20
111	Increased linear bone growth by GH in the absence of SOCS2 is independent of IGF-1. Journal of Cellular Physiology, 2015, 230, 2796-2806.	4.1	20
112	Mitogenic action of insulin-like growth factor-I on human osteosarcoma MG-63 cells and rat osteoblasts maintained in situ: the role of glucose-6-phosphate dehydrogenase. Bone and Mineral, 1993, 22, 105-115.	1.9	19
113	Chondrocyte p21WAF1/CIP1 Expression Is Increased by Dexamethasone but Does Not Contribute to Dexamethasone-Induced Growth Retardation In Vivo. Calcified Tissue International, 2009, 85, 326-334.	3.1	18
114	Immunohistochemical localization of native and denatured collagen types I and II in fetal and adult rat long bones. Bone, 1988, 9, 407-414.	2.9	17
115	Immunolocalization of collagen types I, III and IV, elastin and fibronectin within the heart of normal and copper-deficient rats. Journal of Comparative Pathology, 1991, 104, 245-255.	0.4	17
116	The expression of transforming growth factor-Î² by cultured chick growth plate chondrocytes: differential regulation by 1,25-dihydroxyvitamin D3. Journal of Endocrinology, 1996, 149, 277-285.	2.6	17
117	Localisation and expression of TRPV6 in all intestinal segments and kidney of laying hens. British Poultry Science, 2011, 52, 507-516.	1.7	17
118	Cloning differentially regulated genes from chondrocytes using agarose gel differential display. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1396, 237-241.	2.4	16
119	Upregulation of IGF2 expression during vascular calcification. Journal of Molecular Endocrinology, 2014, 52, 77-85.	2.5	16
120	Osteoblastâ€specific deficiency of ectonucleotide pyrophosphatase or phosphodiesteraseâ€1 engenders insulin resistance in highâ€fat diet fed mice. Journal of Cellular Physiology, 2021, 236, 4614-4624.	4.1	16
121	Kidney lesions in copper-deficient rats. Journal of Comparative Pathology, 1987, 97, 187-196.	0.4	15
122	Endogenous mediators of growth. Proceedings of the Nutrition Society, 1990, 49, 443-450.	1.0	15
123	In vivo and in vitro effect of 1,25-dihydroxyvitamin D3 and 1,25-dihydroxy-16-ene-23-yne-vitamin D3 on the proliferation and differentiation of avian chondrocytes: their role in tibial dyschondroplasia. Journal of Endocrinology, 1996, 148, 465-474.	2.6	15
124	Suppressor of cytokine signaling 2 (SOCS2) deletion protects bone health of mice with DSS induced inflammatory bowel disease. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	15
125	Female Rats Are Susceptible to Cardiac Hypertrophy Induced by Copper Deficiency: The Lack of Influence of Estrogen and Testosterone. Experimental Biology and Medicine, 1988, 188, 272-281.	2.4	14
126	Cytokine profiling and <i>inÂvitro</i> studies of murine bone growth using biological fluids from children with juvenile idiopathic arthritis. Clinical Endocrinology, 2007, 67, 442-448.	2.4	14

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127	Direct stimulation of bone mass by increased GH signalling in the osteoblasts of Socs2â^'/â^' mice. Journal of Endocrinology, 2014, 223, 93-106.	2.6	14
128	The Expression of PHOSPHO1, nSMase2 and TNAP is Coordinately Regulated by Continuous PTH Exposure in Mineralising Osteoblast Cultures. Calcified Tissue International, 2016, 99, 510-524.	3.1	14
129	Piroxicam Treatment Augments Bone Abnormalities in Interleukin-10 Knockout Mice. Inflammatory Bowel Diseases, 2015, 21, 257-266.	1.9	13
130	Culture of Murine Embryonic Metatarsals: A Physiological Model of Endochondral Ossification. Journal of Visualized Experiments, 2016, , .	0.3	13
131	Exploiting novel valve interstitial cell lines to study calcific aortic valve disease. Molecular Medicine Reports, 2018, 17, 2100-2106.	2.4	13
132	Conditional deletion of E11/podoplanin in bone protects against load-induced osteoarthritis. BMC Musculoskeletal Disorders, 2019, 20, 344.	1.9	13
133	Azathioprine Has a Deleterious Effect on the Bone Health of Mice with DSS-Induced Inflammatory Bowel Disease. International Journal of Molecular Sciences, 2019, 20, 6085.	4.1	13
134	PHOSPHO1 is a skeletal regulator of insulin resistance and obesity. BMC Biology, 2020, 18, 149.	3.8	13
135	Chromosomal localization of the chicken and mammalian orthologues of the orphan phosphatase PHOSPHO1 gene. Animal Genetics, 2002, 33, 451-454.	1.7	12
136	Intravesicular Phosphatase PHOSPHO1 Function in Enamel Mineralization and Prism Formation. Frontiers in Physiology, 2017, 8, 805.	2.8	12
137	PHOSPHO1 is essential for normal bone fracture healing. Bone and Joint Research, 2018, 7, 397-405.	3.6	12
138	Osteochondrosis/dyschondroplasia: a failure of chondrocyte differentiation. Equine Veterinary Journal, 1993, 25, 13-18.	1.7	10
139	Identification of a novel class of mammalian phosphoinositol-specific phospholipase C enzymes. International Journal of Molecular Medicine, 2005, 15, 117.	4.0	9
140	Pathophysiology and Management of Abnormal Growth in Children with Chronic Inflammatory Bowel Disease. World Review of Nutrition and Dietetics, 2013, 106, 142-148.	0.3	9
141	Transcriptomic profiling of feline teeth highlights the role of matrix metalloproteinase 9 (MMP9) in tooth resorption. Scientific Reports, 2020, 10, 18958.	3.3	8
142	A Systems-Level Analysis of Total-Body PET Data Reveals Complex Skeletal Metabolism Networks in vivo. Frontiers in Medicine, 2021, 8, 740615.	2.6	8
143	The distribution of elastin in developing and adult rat organs using immunocytochemical techniques. Journal of Anatomy, 1989, 165, 225-36.	1.5	8
144	The Effects of Reserpine upon the Cardiac Enlargement of Copper Deficiency. Experimental Biology and Medicine, 1988, 189, 173-182.	2.4	7

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145	Growth hormone and longitudinal bone growth in vivo: short-term effect of a growth hormone antiserum. Journal of Endocrinology, 1995, 146, 55-62.	2.6	7
146	Effects of choice of reverse-transcriptase enzyme and use of T4 gene 32 protein on banding patterns in agarose gel differential display. Analytical Biochemistry, 2002, 308, 192-194.	2.4	7
147	Suppression of mammalian bone growth by membrane transport inhibitors. Journal of Cellular Biochemistry, 2013, 114, 658-668.	2.6	7
148	A comparison of the bone and growth phenotype of <i>mdx</i>, <i>mdx:cmah</i>â˜’/â˜’ and <i>mdx:utrn</i>+/â˜’ murine models with the C57BL10 wildtype mouse. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	7
149	Distribution and quantification of pyridinium cross-links of collagen within the different maturational zones of the chick growth plate. Biochimica Et Biophysica Acta - General Subjects, 1996, 1290, 250-256.	2.4	6
150	Parathyroid hormone-related peptide expression in tibial dyschondroplasia. Avian Pathology, 2001, 30, 327-335.	2.0	6
151	Isolation and Characterization of Primary Rat Valve Interstitial Cells: A New Model to Study Aortic Valve Calcification. Journal of Visualized Experiments, 2017, , .	0.3	6
152	Dmp1 Promoter-Driven Diphtheria Toxin Receptor Transgene Expression Directs Unforeseen Effects in Multiple Tissues. International Journal of Molecular Sciences, 2017, 18, 29.	4.1	6
153	The Ex Vivo Organ Culture of Bone. Methods in Molecular Biology, 2019, 1914, 199-215.	0.9	6
154	Conditional deletion of E11/Podoplanin in bone protects against ovariectomy-induced increases in osteoclast formation and activity. Bioscience Reports, 2020, 40, .	2.4	6
155	Identification of a novel splice variant of the haloacid dehalogenase: PHOSPHO1. Biochemical and Biophysical Research Communications, 2008, 371, 872-876.	2.1	5
156	The skeleton: no bones about it. Journal of Endocrinology, 2011, 211, 107-108.	2.6	5
157	Proton Pump Inhibitors Inhibit PHOSPHO1 Activity and Matrix Mineralisation In Vitro. Calcified Tissue International, 2021, 109, 696-705.	3.1	5
158	Regulation of Chondrocyte Terminal Differentiation in the Postembryonic Growth Plate: The Role of the PTHrP-Indian Hedgehog Axis. Endocrinology, 2001, 142, 4131-4140.	2.8	5
159	Combined growth hormone and insulin-like growth factor-1 rescues growth retardation in glucocorticoid-treated mdxmice but does not prevent osteopenia. Journal of Endocrinology, 2022, 253, 63-74.	2.6	5
160	Visualisation and selective elimination of a subpopulation of mitogen-responsive bone marrow stromal cells using bromodeoxyuridine and photo-induced cell killing. Bone, 1993, 14, 779-786.	2.9	4
161	P43. 24,25-Dihydroxyvitamin D production by normal and dyschondroplastic chondrocytes. Bone, 1994, 15, 461-462.	2.9	4
162	Optimised isolation method for RNA extraction suitable for RNA sequencing from feline teeth collected in a clinical setting and at post mortem. Veterinary Research Communications, 2019, 43, 17-27.	1.6	4

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163	Ablation of <i>Enpp6</i> Results in Transient Bone Hypomineralization. JBMR Plus, 2021, 5, e10439.	2.7	4
164	The role of accelerated growth plate fusion in the absence of SOCS2 on osteoarthritis vulnerability. Bone and Joint Research, 2022, 11, 162-170.	3.6	4
165	Perspective on Dentoalveolar Manifestations Resulting From PHOSPHO1 Loss-of-Function: A Form of Pseudohypophosphatasia?. Frontiers in Dental Medicine, 2022, 3, .	1.4	3
166	Determining broiler bone life history. British Poultry Science, 1998, 39, 59-60.	1.7	2
167	Dietary Ca and P requirements and skeletal quality in broiler chickens. British Poultry Science, 1999, 40, 57-58.	1.7	2
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