Raymond P Boot-Handford

List of Publications by Year
in descending order

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60 papers	4,720 citations	94269 37 h-index	128067 60 g-index
60 all docs	60 docs citations	60 times ranked	6360 citing authors

#	Article	IF	Citations
1	Collagens at a glance. Journal of Cell Science, 2007, 120, 1955-1958.	1.2	653
2	Setting Clock Speed in Mammals: The CK1É› tau Mutation in Mice Accelerates Circadian Pacemakers by Selectively Destabilizing PERIOD Proteins. Neuron, 2008, 58, 78-88.	3.8	342
3	Genetic diseases of connective tissues: cellular and extracellular effects of ECM mutations. Nature Reviews Genetics, 2009, 10, 173-183.	7.7	276
4	The expression and function of microRNAs in chondrogenesis and osteoarthritis. Arthritis and Rheumatism, 2012, 64, 1909-1919.	6.7	204
5	Superoxide dismutase downregulation in osteoarthritis progression and end-stage disease. Annals of the Rheumatic Diseases, 2010, 69, 1502-1510.	0.5	202
6	Fibrillar collagen: The key to vertebrate evolution? A tale of molecular incest. BioEssays, 2003, 25, 142-151.	1.2	170
7	Targeted Induction of Endoplasmic Reticulum Stress Induces Cartilage Pathology. PLoS Genetics, 2009, 5, e1000691.	1.5	127
8	A Novel and Highly Conserved Collagen (proÎ±1(XXVII)) with a Unique Expression Pattern and Unusual Molecular Characteristics Establishes a New Clade within the Vertebrate Fibrillar Collagen Family. Journal of Biological Chemistry, 2003, 278, 31067-31077.	1.6	124
9	The unfolded protein response and its relevance to connective tissue diseases. Cell and Tissue Research, 2010, 339, 197-211.	1.5	124
10	The intervertebral disc contains intrinsic circadian clocks that are regulated by age and cytokines and linked to degeneration. Annals of the Rheumatic Diseases, 2017, 76, 576-584.	0.5	122
11	Bub1 Maintains Centromeric Cohesion by Activation of the Spindle Checkpoint. Developmental Cell, 2007, 13, 566-579.	3.1	120
12	On the origins of the extracellular matrix in vertebrates. Matrix Biology, 2007, 26, 2-11.	1.5	119
13	The Circadian Clock in Murine Chondrocytes Regulates Genes Controlling Key Aspects of Cartilage Homeostasis. Arthritis and Rheumatism, 2013, 65, 2334-2345.	6.7	117
14	Targeted Deletion of mek5 Causes Early Embryonic Death and Defects in the Extracellular Signal-Regulated Kinase 5/Myocyte Enhancer Factor 2 Cell Survival Pathway. Molecular and Cellular Biology, 2005, 25, 336-345.	1.1	115
15	Lineage tracing using matrilin-1 gene expression reveals that articular chondrocytes exist as the joint interzone forms. Developmental Biology, 2007, 304, 825-833.	0.9	106
16	The evolution of the vertebrate metzincins; insights from Ciona intestinalis and Danio rerio. BMC Evolutionary Biology, 2007, 7, 63.	3.2	97
17	Reduced cell proliferation and increased apoptosis are significant pathological mechanisms in a murine model of mild pseudoachondroplasia resulting from a mutation in the C-terminal domain of COMP. Human Molecular Genetics, 2007, 16, 2072-2088.	1.4	84
18	Receptor Tyrosine Kinase Axl Modulates the Osteogenic Differentiation of Pericytes. Circulation Research, 2003, 92, 1123-1129.	2.0	82

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19	Col2a1 lineage tracing reveals that the meniscus of the knee joint has a complex cellular origin. Journal of Anatomy, 2008, 213, 531-538.	0.9	75
20	Decreased chondrocyte proliferation and dysregulated apoptosis in the cartilage growth plate are key features of a murine model of epiphyseal dysplasia caused by a matn3 mutation. Human Molecular Genetics, 2007, 16, 1728-1741.	1.4	67
21	HtrA1 Inhibits Mineral Deposition by Osteoblasts. Journal of Biological Chemistry, 2008, 283, 5928-5938.	1.6	67
22	Characterization of Hydra Type IV Collagen. Journal of Biological Chemistry, 2000, 275, 39589-39599.	1.6	62
23	Armet/Manf and Creld2 are components of a specialized ER stress response provoked by inappropriate formation of disulphide bonds: implications for genetic skeletal diseases. Human Molecular Genetics, 2013, 22, 5262-5275.	1.4	62
24	COL10A1 nonsense and frame-shift mutations have a gain-of-function effect on the growth plate in human and mouse metaphyseal chondrodysplasia type Schmid. Human Molecular Genetics, 2007, 16, 1201-1215.	1.4	60
25	Targeted Deletion of the Mitogen-Activated Protein Kinase Kinase 4 Gene in the Nervous System Causes Severe Brain Developmental Defects and Premature Death. Molecular and Cellular Biology, 2007, 27, 7935-7946.	1.1	60
26	Collagen XXVII Is Developmentally Regulated and Forms Thin Fibrillar Structures Distinct from Those of Classical Vertebrate Fibrillar Collagens. Journal of Biological Chemistry, 2007, 282, 12791-12795.	1.6	59
27	An unfolded protein response is the initial cellular response to the expression of mutant matrilin-3 in a mouse model of multiple epiphyseal dysplasia. Cell Stress and Chaperones, 2010, 15, 835-849.	1.2	59
28	The characterisation of six ADAMTS proteases in the basal chordate Ciona intestinalis provides new insights into the vertebrate ADAMTS family. International Journal of Biochemistry and Cell Biology, 2005, 37, 1838-1845.	1.2	55
29	The Ribosomal Protein QM Is Expressed Differentially During Vertebrate Endochondral Bone Development. Journal of Bone and Mineral Research, 2000, 15, 1066-1075.	3.1	50
30	Transcriptional Profiling of Chondrodysplasia Growth Plate Cartilage Reveals Adaptive ER-Stress Networks That Allow Survival but Disrupt Hypertrophy. PLoS ONE, 2011, 6, e24600.	1.1	50
31	Increased intracellular proteolysis reduces disease severity in an ER stressâ€“associated dwarfism. Journal of Clinical Investigation, 2017, 127, 3861-3865.	3.9	50
32	The integrins of the urochordate Ciona intestinalis provide novel insights into the molecular evolution of the vertebrate integrin family. BMC Evolutionary Biology, 2005, 5, 31.	3.2	47
33	Visualizing and Quantifying Intracellular Behavior and Abundance of the Core Circadian Clock Protein PERIOD2. Current Biology, 2016, 26, 1880-1886.	1.8	47
34	The Collagens of Hydra Provide Insight into the Evolution of Metazoan Extracellular Matrices. Journal of Biological Chemistry, 2007, 282, 6792-6802.	1.6	44
35	Matrix Gla protein is differentially expressed during the deposition of a calcified matrix by vascular pericytes. FEBS Letters, 2000, 487, 267-271.	1.3	42
36	Collagen XXVII Organises the Pericellular Matrix in the Growth Plate. PLoS ONE, 2011, 6, e29422.	1.1	42

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37	A novel form of chondrocyte stress is triggered by a COMP mutation causing pseudoachondroplasia. Human Mutation, 2012, 33, 218-231.	1.1	42
38	A mouse model offers novel insights into the myopathy and tendinopathy often associated with pseudoachondroplasia and multiple epiphyseal dysplasia. Human Molecular Genetics, 2010, 19, 52-64.	1.4	39
39	Cartilage-specific ablation of XBP1 signaling in mouse results in a chondrodysplasia characterized by reduced chondrocyte proliferation and delayed cartilage maturation and mineralization. Osteoarthritis and Cartilage, 2015, 23, 661-670.	0.6	38
40	Metaphyseal Chondrodysplasia Type Schmid Mutations Are Predicted to Occur in Two Distinct Three-dimensional Clusters within Type X Collagen NC1 Domains That Retain the Ability to Trimerize. Journal of Biological Chemistry, 1999, 274, 3632-3641.	1.6	35
41	Increased Classical Endoplasmic Reticulum Stress Is Sufficient to Reduce Chondrocyte Proliferation Rate in the Growth Plate and Decrease Bone Growth. PLoS ONE, 2015, 10, e0117016.	1.1	32
42	XBP1-Independent UPR Pathways Suppress C/EBP-Î² Mediated Chondrocyte Differentiation in ER-Stress Related Skeletal Disease. PLoS Genetics, 2015, 11, e1005505.	1.5	31
43	Sequence comparison of three mammalian type-X collagen promoters and preliminary functional analysis of the human promoter. Gene, 1995, 160, 291-296.	1.0	28
44	Identification of multiple integrin Î²1 homologs in zebrafish (Danio rerio). BMC Cell Biology, 2006, 7, 24.	3.0	28
45	Activating the unfolded protein response in osteocytes causes hyperostosis consistent with craniodiaphyseal dysplasia. Human Molecular Genetics, 2017, 26, 4572-4587.	1.4	28
46	Abnormal Chondrocyte Apoptosis in the Cartilage Growth Plate is Influenced by Genetic Background and Deletion of CHOP in a Targeted Mouse Model of Pseudoachondroplasia. PLoS ONE, 2014, 9, e85145.	1.1	27
47	PhenomeExpress: A refined network analysis of expression datasets by inclusion of known disease phenotypes. Scientific Reports, 2015, 5, 8117.	1.6	25
48	Back to basics â€“ how the evolution of the extracellular matrix underpinned vertebrate evolution. International Journal of Experimental Pathology, 2009, 90, 95-100.	0.6	24
49	A novel transgenic mouse model of growth plate dysplasia reveals that decreased chondrocyte proliferation due to chronic ER stress is a key factor in reduced bone growth. DMM Disease Models and Mechanisms, 2013, 6, 1414-25.	1.2	22
50	Carbamazepine reduces disease severity in a mouse model of metaphyseal chondrodysplasia type Schmid caused by a premature stop codon (Y632X) in theCol10a1gene. Human Molecular Genetics, 2018, 27, 3840-3853.	1.4	20
51	Arhgap28 Is a RhoGAP that Inactivates RhoA and Downregulates Stress Fibers. PLoS ONE, 2014, 9, e107036.	1.1	20
52	XBP1 signalling is essential for alleviating mutant protein aggregation in ER-stress related skeletal disease. PLoS Genetics, 2019, 15, e1008215.	1.5	16
53	An enhancer complex confers both high-level and cell-specific expression of the human type X collagen gene. FEBS Letters, 2002, 531, 505-508.	1.3	15
54	Cartilage endoplasmic reticulum stress may influence the onset but not the progression of experimental osteoarthritis. Arthritis Research and Therapy, 2019, 21, 206.	1.6	14

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55	Hypertrophic Chondrocytes Have a Limited Capacity to Cope with Increases in Endoplasmic Reticulum Stress without Triggering the Unfolded Protein Response. Journal of Histochemistry and Cytochemistry, 2012, 60, 734-748.	1.3	12
56	Analysis of the cartilage proteome from three different mouse models of genetic skeletal diseases reveals common and discrete disease signatures. Biology Open, 2013, 2, 802-811.	0.6	12
57	<scp>CRELD2</scp> Is a Novel <scp>LRP1</scp> Chaperone That Regulates Noncanonical <scp>WNT</scp> Signaling in Skeletal Development. Journal of Bone and Mineral Research, 2020, 35, 1452-1469.	3.1	12
58	Loss of matrilin 1 does not exacerbate the skeletal phenotype in a mouse model of multiple epiphyseal dysplasia caused by a Matn3 V194D mutation. Arthritis and Rheumatism, 2012, 64, 1529-1539.	6.7	9
59	10 Identification of genes expressed during the osteogenic differentiation of vascular pericytes in vitro. Biochemical Society Transactions, 1998, 26, S4-S4.	1.6	6
60	Gene cloning to clinical trialsâ€"the trials and tribulations of a life with collagen. International Journal of Experimental Pathology, 2019, 100, 4-11.	0.6	3