John F Bateman

List of Publications by Year
in descending order

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149 papers	7,070 citations	44069 48 h-index	69250 77 g-index
156 all docs	156 docs citations	156 times ranked	7619 citing authors

#	Article	IF	Citations
1	Collagen II Is Essential for the Removal of the Notochord and the Formation of Intervertebral Discs. Journal of Cell Biology, 1998, 143, 1399-1412.	5.2	277
2	Genetic diseases of connective tissues: cellular and extracellular effects of ECM mutations. Nature Reviews Genetics, 2009, 10, 173-183.	16.3	276
3	Perinatal lethal osteogenesis imperfecta in transgenic mice bearing an engineered mutant pro-Î±1(I) collagen gene. Nature, 1988, 332, 131-136.	27.8	240
4	Complexes of Matrilin-1 and Biglycan or Decorin Connect Collagen VI Microfibrils to Both Collagen II and Aggrecan. Journal of Biological Chemistry, 2003, 278, 37698-37704.	3.4	229
5	Autophagic Elimination of Misfolded Procollagen Aggregates in the Endoplasmic Reticulum as a Means of Cell Protection. Molecular Biology of the Cell, 2009, 20, 2744-2754.	2.1	187
6	Procollagen folding and assembly: The role of endoplasmic reticulum enzymes and molecular chaperones. Seminars in Cell and Developmental Biology, 1999, 10, 455-464.	5.0	181
7	Surviving Endoplasmic Reticulum Stress Is Coupled to Altered Chondrocyte Differentiation and Function. PLoS Biology, 2007, 5, e44.	5.6	167
8	Dominant collagen VI mutations are a common cause of Ullrich congenital muscular dystrophy. Human Molecular Genetics, 2004, 14, 279-293.	2.9	156
9	Mutations in TRPV4 cause an inherited arthropathy of hands and feet. Nature Genetics, 2011, 43, 1142-1146.	21.4	134
10	Endoplasmic Reticulum-mediated Quality Control of Type I Collagen Production by Cells from Osteogenesis Imperfecta Patients with Mutations in the proÎ±1(I) Chain Carboxyl-terminal Propeptide which Impair Subunit Assembly. Journal of Biological Chemistry, 1995, 270, 8642-8649.	3.4	129
11	Targeted Induction of Endoplasmic Reticulum Stress Induces Cartilage Pathology. PLoS Genetics, 2009, 5, e1000691.	3.5	127
12	Tissue-specific RNA surveillance? Nonsense-mediated mRNA decay causes collagen X haploinsufficiency in Schmid metaphyseal chondrodysplasia cartilage. Human Molecular Genetics, 2003, 12, 217-225.	2.9	122
13	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.	0.9	122
14	In vivo cellular adaptation to ER stress: survival strategies with double-edged consequences. Journal of Cell Science, 2010, 123, 2145-2154.	2.0	120
15	Collagen VI disorders: Insights on form and function in the extracellular matrix and beyond. Matrix Biology, 2018, 71-72, 348-367.	3.6	120
16	The Circadian Clock in Murine Chondrocytes Regulates Genes Controlling Key Aspects of Cartilage Homeostasis. Arthritis and Rheumatism, 2013, 65, 2334-2345.	6.7	117
17	Mutations in the Heparan-Sulfate Proteoglycan Glypican 6 (GPC6) Impair Endochondral Ossification and Cause Recessive Omodysplasia. American Journal of Human Genetics, 2009, 84, 760-770.	6.2	106
18	ADAMTS-1-Knockout mice do not exhibit abnormalities in aggrecan turnover in vitro or in vivo. Arthritis and Rheumatism, 2005, 52, 1461-1472.	6.7	100

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19	Reduced collagen VI causes Bethlem myopathy: a heterozygous COL6A1 nonsense mutation results in mRNA decay and functional haploinsufficiency. Human Molecular Genetics, 1998, 7, 981-989.	2.9	92
20	Mammalian Skeletogenesis and Extracellular Matrix. What can We Learn from Knockout Mice?. Cell Structure and Function, 2000, 25, 73-84.	1.1	85
21	Regulation of alkaline phosphatase expression in a neonatal rat clonal calvarial cell strain by retinoic acid. Journal of Bone and Mineral Research, 1988, 3, 53-61.	2.8	83
22	Clinical phenotypes associated with type II collagen mutations. Journal of Paediatrics and Child Health, 2012, 48, E38-43.	0.8	75
23	Pamidronate Treatment of Osteogenesis Imperfecta - Lack of Correlation Between Clinical Severity, Age at Onset of Treatment, Predicted Collagen Mutation and Treatment Response. Journal of Pediatric Endocrinology and Metabolism, 2002, 15, 163-74.	0.9	73
24	Comprehensive Profiling of Cartilage Extracellular Matrix Formation and Maturation Using Sequential Extraction and Label-free Quantitative Proteomics. Molecular and Cellular Proteomics, 2010, 9, 1296-1313.	3.8	73
25	Changes in the Chondrocyte and Extracellular Matrix Proteome during Post-natal Mouse Cartilage Development. Molecular and Cellular Proteomics, 2012, 11, M111.014159.	3.8	73
26	Proteasomal Degradation of Unassembled Mutant Type I Collagen Pro-Î±1(I) Chains. Journal of Biological Chemistry, 1999, 274, 27392-27398.	3.4	72
27	S100A8 and S100A9 in experimental osteoarthritis. Arthritis Research and Therapy, 2010, 12, R16.	3.5	72
28	Type X Collagen Multimer Assembly in Vitro Is Prevented by a Gly618 to Val Mutation in the Î±1(X) NC1 Domain Resulting in Schmid Metaphyseal Chondrodysplasia. Journal of Biological Chemistry, 1995, 270, 4558-4562.	3.4	70
29	A COL2A1 Mutation in Achondrogenesis Type II Results in the Replacement of Type II Collagen by Type I and III Collagens in Cartilage. Journal of Biological Chemistry, 1995, 270, 1747-1753.	3.4	68
30	The Role of the Î±3(VI) Chain in Collagen VI Assembly. Journal of Biological Chemistry, 1998, 273, 7423-7430.	3.4	68
31	Global comparative transcriptome analysis of cartilage formation in vivo. BMC Developmental Biology, 2009, 9, 20.	2.1	67
32	Molecular consequences of dominant Bethlem myopathy collagen VI mutations. Annals of Neurology, 2007, 62, 390-405.	5.3	66
33	Bulldog dwarfism in Dexter cattle is caused by mutations in ACAN. Mammalian Genome, 2007, 18, 808-814.	2.2	66
34	Cartilage Intermediate Layer Protein 2 (CILP-2) Is Expressed in Articular and Meniscal Cartilage and Down-regulated in Experimental Osteoarthritis. Journal of Biological Chemistry, 2011, 286, 37758-37767.	3.4	66
35	Bethlem Myopathy and Engineered Collagen VI Triple Helical Deletions Prevent Intracellular Multimer Assembly and Protein Secretion. Journal of Biological Chemistry, 1999, 274, 21817-21822.	3.4	65
36	Normal Skeletal Development of Mice Lacking Matrilin 1: Redundant Function of Matrilins in Cartilage?. Molecular and Cellular Biology, 1999, 19, 7841-7845.	2.3	65

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37	Mutations ofCOL10A1 in Schmid metaphyseal chondrodysplasia. Human Mutation, 2005, 25, 525-534.	2.5	64
38	A new FACIT of the collagen family: COL21A1. FEBS Letters, 2001, 505, 275-280.	2.8	63
39	Collagen VI glycine mutations: Perturbed assembly and a spectrum of clinical severity. Annals of Neurology, 2008, 64, 294-303.	5.3	61
40	Gelatinase A (MMP-2) activation by skin fibroblasts: dependence on MT1-MMP expression and fibrillar collagen form. Matrix Biology, 2001, 20, 193-203.	3.6	60
41	Misfolding of Collagen X Chains Harboring Schmid Metaphyseal Chondrodysplasia Mutations Results in Aberrant Disulfide Bond Formation, Intracellular Retention, and Activation of the Unfolded Protein Response. Journal of Biological Chemistry, 2005, 280, 15544-15552.	3.4	58
42	Proteomic characterization of mouse cartilage degradation in vitro. Arthritis and Rheumatism, 2008, 58, 3120-3131.	6.7	58
43	Kinked Collagen VI Tetramers and Reduced Microfibril Formation as a Result of Bethlem Myopathy and Introduced Triple Helical Glycine Mutations. Journal of Biological Chemistry, 2002, 277, 1949-1956.	3.4	56
44	Transcriptomics of Wildâ€Type Mice and Mice Lacking ADAMTSâ€5 Activity Identifies Genes Involved in Osteoarthritis Initiation and Cartilage Destruction. Arthritis and Rheumatism, 2013, 65, 1547-1560.	6.7	56
45	Genetic Disorders of the Extracellular Matrix. Anatomical Record, 2020, 303, 1527-1542.	1.4	56
46	Multiexon Deletions in the Type I Collagen COL1A2 Gene in Osteogenesis Imperfecta Type. Journal of Biological Chemistry, 1996, 271, 21068-21074.	3.4	55
47	Reliable and sensitive detection of premature termination mutations using a protein truncation test designed to overcome problems of nonsense-mediated mRNA instability. Human Mutation, 1999, 13, 311-317.	2.5	55
48	Deposition and selective degradation of structually-abnormal type I collagen in a collagen matrix produced by osteogenesis imperfecta fibroblasts in vitro. Matrix Biology, 1994, 14, 251-262.	3.6	53
49	Cauli: A Mouse Strain with an Ift140 Mutation That Results in a Skeletal Ciliopathy Modelling Jeune Syndrome. PLoS Genetics, 2013, 9, e1003746.	3.5	52
50	Transcriptional Profiling of Chondrodysplasia Growth Plate Cartilage Reveals Adaptive ER-Stress Networks That Allow Survival but Disrupt Hypertrophy. PLoS ONE, 2011, 6, e24600.	2.5	50
51	Increased intracellular proteolysis reduces disease severity in an ER stressâ€“associated dwarfism. Journal of Clinical Investigation, 2017, 127, 3861-3865.	8.2	50
52	Identification of the skeletal progenitor cells forming osteophytes in osteoarthritis. Annals of the Rheumatic Diseases, 2020, 79, 1625-1634.	0.9	48
53	Site-directed Mutagenesis of Human Type X Collagen. Journal of Biological Chemistry, 1996, 271, 13566-13572.	3.4	47
54	Comparative Proteomic Analysis of Normal and Collagen IX Null Mouse Cartilage Reveals Altered Extracellular Matrix Composition and Novel Components of the Collagen IX Interactome. Journal of Biological Chemistry, 2013, 288, 13481-13492.	3.4	46

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55	Rapid fractionation of collagen chains and peptides by high-performance liquid chromatography. Analytical Biochemistry, 1986, 154, 338-344.	2.4	45
56	Premature arthritis is a distinct type II collagen phenotype. Arthritis and Rheumatism, 2010, 62, 1421-1430.	6.7	45
57	¹H NMR Spectroscopy of Serum Reveals Unique Metabolic Fingerprints Associated with Subtypes of Surgically Induced Osteoarthritis in Sheep. Journal of Proteome Research, 2012, 11, 4261-4268.	3.7	44
58	Employing molecular genetics of chondrodysplasias to inform the study of osteoarthritis. Arthritis and Rheumatism, 2009, 60, 325-334.	6.7	43
59	Molecular diagnosis of Stickler syndrome: ACOL2A1 stop codon mutation screening strategy that is not compromised by mutant mRNA instability. American Journal of Medical Genetics Part A, 2000, 90, 398-406.	2.4	41
60	WARP Is a Novel Multimeric Component of the Chondrocyte Pericellular Matrix That Interacts with Perlecan. Journal of Biological Chemistry, 2006, 281, 7341-7349.	3.4	41
61	A Dominant Interference Collagen X Mutation Disrupts Hypertrophic Chondrocyte Pericellular Matrix and Glycosaminoglycan and Proteoglycan Distribution in Transgenic Mice. American Journal of Pathology, 2001, 159, 2257-2269.	3.8	40
62	Isolated Anxa5+/Sca-1+ perivascular cells from mouse meningeal vasculature retain their perivascular phenotype in vitro and in vivo. Experimental Cell Research, 2007, 313, 2730-2743.	2.6	39
63	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.	1.3	38
64	UNCL, the mammalian homologue of UNC-50, is an inner nuclear membrane RNA-binding protein11Published on the World Wide Web on 10 August 2000.. Brain Research, 2000, 877, 110-123.	2.2	37
65	The N-terminal N5 Subdomain of the Î±3(VI) Chain Is Important for Collagen VI Microfibril Formation. Journal of Biological Chemistry, 2001, 276, 187-193.	3.4	37
66	Sorting of growth plate chondrocytes allows the isolation and characterization of cells of a defined differentiation status. Journal of Bone and Mineral Research, 2010, 25, 1267-1281.	2.8	36
67	Distinct skeletal abnormalities in four girls with Shprintzen-Goldberg syndrome. American Journal of Medical Genetics Part A, 1995, 57, 565-572.	2.4	35
68	WARP is a new member of the von Willebrand factor A-domain superfamily of extracellular matrix proteins. FEBS Letters, 2002, 517, 61-66.	2.8	35
69	Mice Lacking the Extracellular Matrix Protein WARP Develop Normally but Have Compromised Peripheral Nerve Structure and Function. Journal of Biological Chemistry, 2009, 284, 12020-12030.	3.4	34
70	Depletion of annexin A5, annexin A6, and collagen X causes no gross changes in matrix vesicleâ€“mediated mineralization, but lack of collagen X affects hematopoiesis and the Th1/Th2 response. Journal of Bone and Mineral Research, 2012, 27, 2399-2412.	2.8	34
71	A new method for determining the extent of proline hydroxylation by measuring changes in the ratio of [4-3H]:[14C]proline in collagenase digests. Analytical Biochemistry, 1980, 108, 385-393.	2.4	33
72	Why mice have lost genes for COL21A1, STK17A, GPR145 and AHRI: evidence for gene deletion at evolutionary breakpoints in the rodent lineage. Trends in Genetics, 2004, 20, 408-412.	6.7	32

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73	Proteomic analysis of mouse growth plate cartilage. Proteomics, 2006, 6, 6549-6553.	2.2	32
74	Proteomic analysis of cartilage proteins. Methods, 2008, 45, 22-31.	3.8	32
75	A dominant TRPV4 variant underlies osteochondrodysplasia in Scottish fold cats. Osteoarthritis and Cartilage, 2016, 24, 1441-1450.	1.3	32
76	Utility of circulating serum miRNAs as biomarkers of early cartilage degeneration in animal models of post-traumatic osteoarthritis and inflammatory arthritis. Osteoarthritis and Cartilage, 2017, 25, 426-434.	1.3	32
77	Recurrent Dominant Mutations Affecting Two Adjacent Residues in the Motor Domain of the Monomeric Kinesin KIF22 Result in Skeletal Dysplasia and Joint Laxity. American Journal of Human Genetics, 2011, 89, 767-772.	6.2	31
78	XBP1-Independent UPR Pathways Suppress C/EBP-Î² Mediated Chondrocyte Differentiation in ER-Stress Related Skeletal Disease. PLoS Genetics, 2015, 11, e1005505.	3.5	31
79	Familial scaphocephaly syndrome caused by a novel mutation in the FGFR2 tyrosine kinase domain. Journal of Medical Genetics, 2005, 42, 656-662.	3.2	30
80	Gingival fibromatosis and Klippel-TrÃ©naunay-Weber syndrome. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 1995, 79, 578-582.	1.4	29
81	Collagen X Chains Harboring Schmid Metaphyseal Chondrodysplasia NC1 Domain Mutations Are Selectively Retained and Degraded in Stably Transfected Cells. Journal of Biological Chemistry, 2002, 277, 12516-12524.	3.4	29
82	Competency for Nonsense-Mediated Reduction in Collagen X mRNA Is Specified by the 3â€² UTR and Corresponds to the Position of Mutations in Schmid Metaphyseal Chondrodysplasia. American Journal of Human Genetics, 2008, 82, 786-793.	6.2	29
83	Deficiency of annexins A5 and A6 induces complex changes in the transcriptome of growth plate cartilage but does not inhibit the induction of mineralization. Journal of Bone and Mineral Research, 2010, 25, 141-153.	2.8	29
84	Human Cells Unable to Express Decoron Produced Disorganized Extracellular Matrix Lacking â€œShape Modulesâ€•(Interfibrillar Proteoglycan Bridges). Experimental Cell Research, 1998, 243, 59-66.	2.6	28
85	Interaction of Collagen Î±1(X) Containing Engineered NC1 Mutations with Normal Î±1(X) in Vitro. Journal of Biological Chemistry, 1999, 274, 13091-13097.	3.4	28
86	A microarray approach for comparative expression profiling of the discrete maturation zones of mouse growth plate cartilage. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2008, 1779, 330-340.	1.9	28
87	Nonsense-mediated mRNA decay of collagen â€“ emerging complexity in RNA surveillance mechanisms. Journal of Cell Science, 2013, 126, 2551-60.	2.0	28
88	Novel Elements of the Chondrocyte Stress Response Identified Using an in Vitro Model of Mouse Cartilage Degradation. Journal of Proteome Research, 2016, 15, 1033-1050.	3.7	27
89	Detection and localization of base changes in RNA using a chemical cleavage method. Analytical Biochemistry, 1989, 183, 263-268.	2.4	26
90	Clinicopathologic findings in congenital aneurysms of the great vessels. American Journal of Medical Genetics Part A, 1996, 66, 289-299.	2.4	26

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91	MT1-MMP-Dependent and -Independent Regulation of Gelatinase A Activation in Long-Term, Ascorbate-Treated Fibroblast Cultures: Regulation by Fibrillar Collagen. Experimental Cell Research, 2002, 272, 109-118.	2.6	25
92	Comprehensive analysis of collagen metabolism in vitro using [43H][14C]proline dual-labeling and polyacrylamide gel electrophoresis. Analytical Biochemistry, 1988, 168, 171-175.	2.4	24
93	Proteomics makes progress in cartilage and arthritis research. Matrix Biology, 2009, 28, 121-128.	3.6	24
94	Comprehensive Expression Analysis of microRNAs and mRNAs in Synovial Tissue from a Mouse Model of Early Post-Traumatic Osteoarthritis. Scientific Reports, 2017, 7, 17701.	3.3	24
95	Chemical cleavage method for the detection of RNA base changes: Experience in the application to collagen mutations in osteogenesis imperfecta. American Journal of Medical Genetics Part A, 1993, 45, 233-240.	2.4	23
96	WARP Interacts with Collagen VI-Containing Microfibrils in the Pericellular Matrix of Human Chondrocytes. PLoS ONE, 2012, 7, e52793.	2.5	23
97	Effect of rapamycin on bone mass and strength in the Î±2(I)â€G610C mouse model of osteogenesis imperfecta. Journal of Cellular and Molecular Medicine, 2019, 23, 1735-1745.	3.6	22
98	An Î±1 II Gly913 to Cys substitution prevents the matrix incorporation of type II collagen which is replaced with type I and III collagens in cartilage from a patient with hypochondrogenesis. American Journal of Medical Genetics Part A, 1996, 63, 129-136.	2.4	21
99	The Globular Domain of the ProÎ±1(I) N-Propeptide Is Not Required for Secretion, Processing by Procollagen N-Proteinase, or Fibrillogenesis of Type I Collagen in Mice. Journal of Biological Chemistry, 2002, 277, 2605-2613.	3.4	21
100	Cartilage MicroRNA Dysregulation During the Onset and Progression of Mouse Osteoarthritis Is Independent of Aggrecanolysis and Overlaps With Candidates From Endâ€Stage Human Disease. Arthritis and Rheumatology, 2018, 70, 383-395.	5.6	21
101	Identification of four novel COL10A1 missense mutations in schmid metaphyseal chondrodysplasia: Further evidence that collagen X NC1 mutations impair trimer assembly. Human Mutation, 2004, 23, 396-396.	2.5	20
102	A robust method for proteomic characterization of mouse cartilage using solubility-based sequential fractionation and two-dimensional gel electrophoresis. Matrix Biology, 2008, 27, 709-712.	3.6	20
103	The Type I Collagen proÎ±1(I) COOH-terminal Propeptide N-Linked Oligosaccharide. Journal of Biological Chemistry, 1995, 270, 17858-17865.	3.4	19
104	Maintaining mRNA Integrity during Decalcification of Mineralized Tissues. PLoS ONE, 2013, 8, e58154.	2.5	19
105	Formation of proline metabolites in chick embryo bone: Interference with the measurement of free hydroxyproline by ion-exchange chromatography. Analytical Biochemistry, 1982, 120, 330-338.	2.4	18
106	The extracellular matrix protein WARP is a novel component of a distinct subset of basement membranes. Matrix Biology, 2008, 27, 295-305.	3.6	18
107	Collagen VI Microfibril Formation Is Abolished by an Î±2(VI) von Willebrand Factor Type A Domain Mutation in a Patient with Ullrich Congenital Muscular Dystrophy. Journal of Biological Chemistry, 2010, 285, 33567-33576.	3.4	18
108	Biochemical Heterogeneity of Type I Collagen Mutations in Osteogenesis Imperfecta. Annals of the New York Academy of Sciences, 1988, 543, 95-105.	3.8	16

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109	Intracellular trafficking and degradation of unassociated proÎ±2 chains of collagen type I. Experimental Cell Research, 2004, 296, 307-316.	2.6	16
110	XBP1 signalling is essential for alleviating mutant protein aggregation in ER-stress related skeletal disease. PLoS Genetics, 2019, 15, e1008215.	3.5	16
111	Generation of a heterozygous COL1A1 (c.3969_3970insT) osteogenesis imperfecta mutation human iPSC line, MCRIi001-A-1, using CRISPR/Cas9 editing. Stem Cell Research, 2019, 37, 101449.	0.7	15
112	Antibodies to type II collagen in SLE: A role in the pathogenesis of deforming arthritis?. Immunology and Cell Biology, 1990, 68, 27-31.	2.3	14
113	Genetic Aspects of Osteoarthritis. Seminars in Arthritis and Rheumatism, 2004, 34, 15-18.	3.4	14
114	Cartilage endoplasmic reticulum stress may influence the onset but not the progression of experimental osteoarthritis. Arthritis Research and Therapy, 2019, 21, 206.	3.5	14
115	Identification of Two Independent COL5A1 Variants in Dogs with Ehlersâ€“Danlos Syndrome. Genes, 2019, 10, 731.	2.4	13
116	A Mouse Splice-Site Mutant and Individuals with Atypical Chromosome 22q11.2 Deletions Demonstrate the Crucial Role for Crkl in Craniofacial and Pharyngeal Development. Molecular Syndromology, 2014, 5, 276-286.	0.8	11
117	Two-dimensional assays of peptide fragments. Methods in Enzymology, 1987, 145, 183-205.	1.0	10
118	Familial digital arthropathy-brachydactyly. American Journal of Medical Genetics Part A, 2002, 108, 235-240.	2.4	10
119	Osteogenic capacity of collagen in repair of established periodontal defects. Clinical Materials, 1992, 9, 201-209.	0.5	9
120	Lethal perinatal osteogenesis imperfecta due to a type I collagen Î±2(I) gly to arg substitution detected by chemical cleavage of an mRNA:cDNA sequence mismatch. Human Mutation, 1992, 1, 55-62.	2.5	9
121	Cartilage proteomics: Challenges, solutions and recent advances. Proteomics - Clinical Applications, 2008, 2, 251-263.	1.6	8
122	The use of simultaneous reprogramming and gene correction to generate an osteogenesis imperfecta patient COL1A1 c. 3936 G>T iPSC line and an isogenic control iPSC line. Stem Cell Research, 2019, 38, 101453.	0.7	8
123	A Mouse 3T6 Fibroblast Cell Culture Model for the Study of Normal and Protein-Engineered Collagen Synthesis and Deposition into the Extracellular Matrix. Matrix Biology, 1993, 13, 323-330.	1.7	7
124	CRISPR/Cas9 editing to generate a heterozygous COL2A1 p.G1170S human chondrodysplasia iPSC line, MCRIi019-A-2, in a control iPSC line, MCRIi019-A. Stem Cell Research, 2020, 48, 101962.	0.7	7
125	bfb, a Novel ENU-Induced blebs Mutant Resulting from a Missense Mutation in Fras1. PLoS ONE, 2013, 8, e76342.	2.5	7
126	Collagen misfolding mutations: the contribution of the unfolded protein response to the molecular pathology. Connective Tissue Research, 2022, 63, 210-227.	2.3	7

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127	Type X Collagen NC1 Mutations Produced by Siteâ€directed Mutagenesis Prevent In Vitro Assemblya. Annals of the New York Academy of Sciences, 1996, 785, 231-233.	3.8	6
128	In vitro expression analysis of collagen biosynthesis and assembly. Journal of Proteomics, 1997, 36, 11-29.	2.4	6
129	Is there an evolutionary relationship between WARP (von Willebrand factor A-domain-related protein) and the FACIT and FACIT-like collagens?. FEBS Letters, 2003, 552, 91-94.	2.8	6
130	Identification of TGFÎ²-related genes regulated in murine osteoarthritis and chondrocyte hypertrophy by comparison of multiple microarray datasets. Bone, 2018, 116, 67-77.	2.9	6
131	Generation of a SOX9-tdTomato reporter human iPSC line, MCRIi001-A-2, using CRISPR/Cas9 editing. Stem Cell Research, 2020, 42, 101689.	0.7	6
132	Collagen Protein Abnormalities Produced by Site-Directed Mutagenesis of the Proal(I) Gene. Connective Tissue Research, 1989, 20, 205-212.	2.3	5
133	Correlation of Clinical and Molecular Biological Abnormalities in Osteogenesis Imperfecta. Connective Tissue Research, 1989, 21, 91-97.	2.3	5
134	The Study of Collagen Structure and Function by Site-Directed Mutagenesis of Collagen Genes. Annals of the New York Academy of Sciences, 1990, 580, 324-329.	3.8	5
135	Ablation of the miRNA Cluster 24 Has Profound Effects on Extracellular Matrix Protein Abundance in Cartilage. International Journal of Molecular Sciences, 2020, 21, 4112.	4.1	5
136	Breeding Strategy Determines Rupture Incidence in Post-Infarct Healing WARPing Cardiovascular Research. PLoS ONE, 2015, 10, e0139199.	2.5	4
137	Generation of a heterozygous COL2A1 (p.G1113C) hypochondrogenesis mutation iPSC line, MCRIi019-A-7, using CRISPR/Cas9 gene editing. Stem Cell Research, 2021, 56, 102515.	0.7	4
138	The effect of carbamazepine on bone structure and strength in control and osteogenesis imperfecta (Col1a2^{+/p.G610C}) mice. Journal of Cellular and Molecular Medicine, 2022, 26, 4021-4031.	3.6	4
139	Heterogeneity in dermatosparaxis is shown by contraction of collagen gels. Connective Tissue Research, 1991, 25, 295-300.	2.3	3
140	Genomic sequence of mouse COL1A1 encoding the collagen propeptides. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1993, 1216, 469-474.	2.4	3
141	A mutation in the conserved NC1 domain of type X collagen prevents in vitro multimer assembly resulting in a Schmid-type metaphyseal chondrodysplasia. Matrix Biology, 1994, 14, 396-397.	3.6	3
142	Generation of a heterozygous COL2A1 (p.R989C) spondyloepiphyseal dysplasia congenita mutation iPSC line, MCRIi001-B, using CRISPR/Cas9 gene editing. Stem Cell Research, 2020, 45, 101843.	0.7	3
143	A [4,5-3H]lysine:[14C]lysine dual-label method to measure lysine hydroxylation in collagen. Analytical Biochemistry, 1986, 158, 151-157.	2.4	2
144	CRISPR/Cas9 gene editing of a SOX9 reporter human iPSC line to produce two TRPV4 patient heterozygous missense mutant iPSC lines, MCRIi001-A-3 (TRPV4 p.F273L) and MCRIi001-A-4 (TRPV4 p.P799L). Stem Cell Research, 2020, 48, 101942.	0.7	2

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145	A type III collagen Gly559 to Arg helix mutation in Ehler's-Danlos syndrome type IV. Human Mutation, 1998, 11, S257-S259.	2.5	1
146	Skeletal Dysplasias. , 2018, , 469-480.		1
147	An Î±1 II Gly913 to Cys substitution prevents the matrix incorporation of type II collagen which is replaced with type I and III collagens in cartilage from a patient with hypochondrogenesis. American Journal of Medical Genetics Part A, 1996, 63, 129-136.	2.4	1
148	Molecular Genetics of the Cartilage Collagenopathies. , 2017, , 99-133.		1
149	Generation of a miR-26b stem-loop knockout human iPSC line, MCRIi019-A-1, using CRISPR/Cas9 editing. Stem Cell Research, 2021, 50, 102118.	0.7	0