

Karl E Kadler

List of Publications by Year in descending order

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178
papers

13,812
citations

20817

60
h-index

23533

111
g-index

194
all docs

194
docs citations

194
times ranked

11817
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeted Disruption of Decorin Leads to Abnormal Collagen Fibril Morphology and Skin Fragility. <i>Journal of Cell Biology</i> , 1997, 136, 729-743.	5.2	1,356
2	Collagen fibril formation. <i>Biochemical Journal</i> , 1996, 316, 1-11.	3.7	1,190
3	Collagens at a glance. <i>Journal of Cell Science</i> , 2007, 120, 1955-1958.	2.0	653
4	Procollagen trafficking, processing and fibrillogenesis. <i>Journal of Cell Science</i> , 2005, 118, 1341-1353.	2.0	621
5	Collagen fibrillogenesis: fibronectin, integrins, and minor collagens as organizers and nucleators. <i>Current Opinion in Cell Biology</i> , 2008, 20, 495-501.	5.4	583
6	Assembly of collagen fibrils de novo by cleavage of the type I pC-collagen with procollagen C-proteinase. Assay of critical concentration demonstrates that collagen self-assembly is a classical example of an entropy-driven process. <i>Journal of Biological Chemistry</i> , 1987, 262, 15696-15701.	3.4	276
7	Coalignment of plasma membrane channels and protrusions (fibripositors) specifies the parallelism of tendon. <i>Journal of Cell Biology</i> , 2004, 165, 553-563.	5.2	275
8	Identification of collagen fibril fusion during vertebrate tendon morphogenesis. The process relies on unipolar fibrils and is regulated by collagen-proteoglycan interaction. <i>Journal of Molecular Biology</i> , 2000, 295, 891-902.	4.2	246
9	Using transmission electron microscopy and 3View to determine collagen fibril size and three-dimensional organization. <i>Nature Protocols</i> , 2013, 8, 1433-1448.	12.0	225
10	Corneal collagen fibril structure in three dimensions: Structural insights into fibril assembly, mechanical properties, and tissue organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 7307-7312.	7.1	218
11	Transcription factor EGR1 directs tendon differentiation and promotes tendon repair. <i>Journal of Clinical Investigation</i> , 2013, 123, 3564-3576.	8.2	201
12	Assembly of collagen fibrils de novo by cleavage of the type I pC-collagen with procollagen C-proteinase. Assay of critical concentration demonstrates that collagen self-assembly is a classical example of an entropy-driven process. <i>Journal of Biological Chemistry</i> , 1987, 262, 15696-701.	3.4	194
13	Cartilage Oligomeric Matrix Protein Interacts with Type IX Collagen, and Disruptions to These Interactions Identify a Pathogenetic Mechanism in a Bone Dysplasia Family. <i>Journal of Biological Chemistry</i> , 2001, 276, 6046-6055.	3.4	188
14	Tendon Functional Extracellular Matrix. <i>Journal of Orthopaedic Research</i> , 2015, 33, 793-799.	2.3	171
15	The collagen fibril—A model system for studying the staining and fixation of a protein. <i>Electron Microscopy Reviews</i> , 1990, 3, 143-182.	1.3	170
16	Age-Related Changes on the Surface of Vitreous Collagen Fibrils. , 2004, 45, 1041.		153
17	The Supramolecular Organization of Fibrillin-Rich Microfibrils. <i>Journal of Cell Biology</i> , 2001, 152, 1045-1056.	5.2	146
18	A structure-based extracellular matrix expansion mechanism of fibrous tissue growth. <i>ELife</i> , 2015, 4, .	6.0	130

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19	Circadian control of the secretory pathway maintains collagen homeostasis. <i>Nature Cell Biology</i> , 2020, 22, 74-86.	10.3	130
20	Actin Filaments Are Required for Fibripositor-mediated Collagen Fibril Alignment in Tendon. <i>Journal of Biological Chemistry</i> , 2006, 281, 38592-38598.	3.4	127
21	Targeted Induction of Endoplasmic Reticulum Stress Induces Cartilage Pathology. <i>PLoS Genetics</i> , 2009, 5, e1000691.	3.5	127
22	Lysyl Oxidase Activity Is Required for Ordered Collagen Fibrillogenesis by Tendon Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 16440-16450.	3.4	125
23	Assembly of type I collagen fibrils de novo. Between 37 and 41 degrees C the process is limited by micro-unfolding of monomers.. <i>Journal of Biological Chemistry</i> , 1988, 263, 10517-10523.	3.4	121
24	Collagen fibrils <i>in vitro</i> grow from pointed tips in the C- to N-terminal direction. <i>Biochemical Journal</i> , 1990, 268, 339-343.	3.7	119
25	STEM/TEM studies of collagen fibril assembly. <i>Micron</i> , 2001, 32, 273-285.	2.2	116
26	A substitution of cysteine for glycine 748 of the alpha 1 chain produces a kink at this site in the procollagen I molecule and an altered N-proteinase cleavage site over 225 nm away.. <i>Journal of Biological Chemistry</i> , 1988, 263, 19249-19255.	3.4	115
27	The Cellular Biology of Flexor Tendon Adhesion Formation. <i>American Journal of Pathology</i> , 2009, 175, 1938-1951.	3.8	109
28	The Angiogenic Inhibitor Long Pentraxin PTX3 Forms an Asymmetric Octamer with Two Binding Sites for FGF2. <i>Journal of Biological Chemistry</i> , 2010, 285, 17681-17692.	3.4	106
29	Proteinases of the Bone Morphogenetic Protein-1 Family Convert Procollagen VII to Mature Anchoring Fibril Collagen. <i>Journal of Biological Chemistry</i> , 2002, 277, 26372-26378.	3.4	105
30	Collagen fibril biosynthesis in tendon: a review and recent insights. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002, 133, 979-985.	1.8	105
31	Scleraxis Is Required for Cell Lineage Differentiation and Extracellular Matrix Remodeling During Murine Heart Valve Formation In Vivo. <i>Circulation Research</i> , 2008, 103, 948-956.	4.5	104
32	Collagen Fibril Assembly and Function. <i>Current Topics in Developmental Biology</i> , 2018, 130, 107-142.	2.2	102
33	Tension is required for fibripositor formation. <i>Matrix Biology</i> , 2008, 27, 371-375.	3.6	100
34	3D ultrastructure and collagen composition of healthy and overloaded human tendon: evidence of tenocyte and matrix buckling. <i>Journal of Anatomy</i> , 2014, 224, 548-555.	1.5	97
35	Assembly of type I collagen fibrils de novo. Between 37 and 41 degrees C the process is limited by micro-unfolding of monomers. <i>Journal of Biological Chemistry</i> , 1988, 263, 10517-23.	3.4	97
36	Growing tips of type I collagen fibrils formed in vitro are near-paraboloidal in shape, implying a reciprocal relationship between accretion and diameter.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 9855-9859.	7.1	93

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37	A substitution of cysteine for glycine 748 of the alpha 1 chain produces a kink at this site in the procollagen I molecule and an altered N-proteinase cleavage site over 225 nm away. <i>Journal of Biological Chemistry</i> , 1988, 263, 19249-55.	3.4	91
38	Type I procollagen: The geneâ€protein system that harbors most of the mutations causing osteogenesis imperfecta and probably more common heritable disorders of connective tissue. <i>American Journal of Medical Genetics Part A</i> , 1989, 34, 60-67.	2.4	90
39	Ageing Changes in the Tensile Properties of Tendons: Influence of Collagen Fibril Volume Fraction. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 021011.	1.3	89
40	Copolymerization of pNcollagen III and collagen I. pNcollagen III decreases the rate of incorporation of collagen I into fibrils, the amount of collagen I incorporated, and the diameter of the fibrils formed. <i>Journal of Biological Chemistry</i> , 1991, 266, 12703-9.	3.4	87
41	Pleomorphism in type I collagen fibrils produced by persistence of the procollagen N-propeptide. <i>Journal of Molecular Biology</i> , 1989, 210, 337-345.	4.2	86
42	The 10+4 microfibril structure of thin cartilage fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17249-17254.	7.1	86
43	Tendon Development Requires Regulation of Cell Condensation and Cell Shape via Cadherin-11-Mediated Cell-Cell Junctions. <i>Molecular and Cellular Biology</i> , 2007, 27, 6218-6228.	2.3	85
44	Expression of an engineered form of recombinant procollagen in mouse milk. <i>Nature Biotechnology</i> , 1999, 17, 385-389.	17.5	84
45	Paired Basic/Furin-like Proprotein Convertase Cleavage of Pro-BMP-1 in the trans-Golgi Network. <i>Journal of Biological Chemistry</i> , 2003, 278, 18478-18484.	3.4	84
46	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. <i>Human Molecular Genetics</i> , 2007, 16, 2072-2088.	2.9	84
47	Mica sandwich technique for preparing macromolecules for rotary shadowing. <i>Journal of Ultrastructure Research</i> , 1985, 91, 66-76.	1.1	82
48	The initiation of embryonic-like collagen fibrillogenesis by adult human tendon fibroblasts when cultured under tension. <i>Biomaterials</i> , 2010, 31, 4889-4897.	11.4	81
49	Bimodal collagen fibril diameter distributions direct age-related variations in tendon resilience and resistance to rupture. <i>Journal of Applied Physiology</i> , 2012, 113, 878-888.	2.5	79
50	Evidence of structurally continuous collagen fibrils in tendons. <i>Acta Biomaterialia</i> , 2017, 50, 293-301.	8.3	79
51	The fibrillar collagens, collagen VIII, collagen X and the C1q complement proteins share a similar domain in their C‐terminal non‐collagenous regions. <i>FEBS Letters</i> , 1992, 303, 126-128.	2.8	76
52	Nonmuscle myosin II powered transport of newly formed collagen fibrils at the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4743-52.	7.1	76
53	Tip-mediated fusion involving unipolar collagen fibrils accounts for rapid fibril elongation, the occurrence of fibrillar branched networks in skin and the paucity of collagen fibril ends in vertebrates. <i>Matrix Biology</i> , 2000, 19, 359-365.	3.6	72
54	Matrix loading: Assembly of extracellular matrix collagen fibrils during embryogenesis. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2004, 72, 1-11.	3.6	72

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55	Tendon Is Covered by a Basement Membrane Epithelium That Is Required for Cell Retention and the Prevention of Adhesion Formation. PLoS ONE, 2011, 6, e16337.	2.5	71
56	Synthesis of embryonic tendon-like tissue by human marrow stromal/mesenchymal stem cells requires a three-dimensional environment and transforming growth factor β 3. Matrix Biology, 2010, 29, 668-677.	3.6	69
57	Fibroblast-Derived MMP-14 Regulates Collagen Homeostasis in Adult Skin. Journal of Investigative Dermatology, 2016, 136, 1575-1583.	0.7	69
58	Three-dimensional aspects of matrix assembly by cells in the developing cornea. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 687-692.	7.1	68
59	Bone Morphogenetic Protein-1 (BMP-1). Journal of Biological Chemistry, 2003, 278, 18045-18049.	3.4	67
60	Decreased chondrocyte proliferation and dysregulated apoptosis in the cartilage growth plate are key features of a murine model of epiphyseal dysplasia caused by a <i>matn3</i> mutation. Human Molecular Genetics, 2007, 16, 1728-1741.	2.9	67
61	Slow stretching that mimics embryonic growth rate stimulates structural and mechanical development of tendon-like tissue in vitro. Developmental Dynamics, 2011, 240, 2520-2528.	1.8	65
62	A type I collagen with a substitution of a cysteine for glycine-748 in the α 1(I) chain copolymerizes with normal type I collagen and can generate fractallike structures. Biochemistry, 1991, 30, 5081-5088.	2.5	62
63	Simple physical model of collagen fibrillogenesis based on diffusion limited aggregation. Journal of Molecular Biology, 1995, 247, 823-831.	4.2	62
64	Fell Muir Lecture: Collagen fibril formation <i>in vitro</i> and <i>in vivo</i> . International Journal of Experimental Pathology, 2017, 98, 4-16.	1.3	62
65	Chemical chaperone treatment reduces intracellular accumulation of mutant collagen IV and ameliorates the cellular phenotype of a COL4A2 mutation that causes haemorrhagic stroke. Human Molecular Genetics, 2014, 23, 283-292.	2.9	60
66	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.	3.4	59
67	Simple physical model of collagen fibrillogenesis based on diffusion limited aggregation. Journal of Molecular Biology, 1995, 247, 823-831.	4.2	58
68	Collagen fibril organisation in mammalian vitreous by freeze etch/rotary shadowing electron microscopy. Micron, 2001, 32, 301-306.	2.2	57
69	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.	2.5	57
70	Temporal and spatial expression of collagens during murine atrioventricular heart valve development and maintenance. Developmental Dynamics, 2008, 237, 3051-3058.	1.8	53
71	An experimental model for studying the biomechanics of embryonic tendon: Evidence that the development of mechanical properties depends on the actinomyosin machinery. Matrix Biology, 2010, 29, 678-689.	3.6	53
72	Tenocyte contraction induces crimp formation in tendon-like tissue. Biomechanics and Modeling in Mechanobiology, 2012, 11, 449-459.	2.8	52

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73	Gremlin-2 is a BMP antagonist that is regulated by the circadian clock. <i>Scientific Reports</i> , 2014, 4, 5183.	3.3	52
74	Three-dimensional electron microscopy reveals the evolution of glomerular barrier injury. <i>Scientific Reports</i> , 2016, 6, 35068.	3.3	51
75	Key Matrix Proteins Within the Pancreatic Islet Basement Membrane Are Differentially Digested During Human Islet Isolation. <i>American Journal of Transplantation</i> , 2017, 17, 451-461.	4.7	50
76	Ehlers Danlos syndrome type VIIB. Incomplete cleavage of abnormal type I procollagen by N-proteinase in vitro results in the formation of copolymers of collagen and partially cleaved pNcollagen that are near circular in cross-section. <i>Journal of Biological Chemistry</i> , 1992, 267, 9093-100.	3.4	49
77	Assembly of Type I Collagen Fibrils de Novo by the Specific Enzymic Cleavage of pC Collagen.. <i>Annals of the New York Academy of Sciences</i> , 1990, 580, 214-224.	3.8	48
78	Collagen fibrils forming in developing tendon show an early and abrupt limitation in diameter at the growing tips. <i>Journal of Molecular Biology</i> , 1998, 283, 1049-1058.	4.2	48
79	Self-Assembly into Fibrils of a Homotrimer of Type I Collagen. <i>Matrix Biology</i> , 1992, 12, 256-263.	1.7	47
80	Axial structure of the heterotypic collagen fibrils of vitreous humour and cartilage. <i>Journal of Molecular Biology</i> , 2001, 306, 1011-1022.	4.2	47
81	Fibrin Gels Exhibit Improved Biological, Structural, and Mechanical Properties Compared with Collagen Gels in Cell-Based Tendon Tissue-Engineered Constructs. <i>Tissue Engineering - Part A</i> , 2015, 21, 438-450.	3.1	46
82	Enzymic Control of Collagen Fibril Shape. <i>Journal of Molecular Biology</i> , 1996, 261, 93-97.	4.2	44
83	Post-translational Modification of Bone Morphogenetic Protein-1 Is Required for Secretion and Stability of the Protein. <i>Journal of Biological Chemistry</i> , 2002, 277, 43327-43334.	3.4	44
84	Ehlers-Danlos syndrome type VIIB. Morphology of type I collagen fibrils formed in vivo and in vitro is determined by the conformation of the retained N-propeptide. <i>Journal of Biological Chemistry</i> , 1993, 268, 15758-65.	3.4	44
85	Live imaging of collagen deposition during skin development and repair in a collagen I GFP fusion transgenic zebrafish line. <i>Developmental Biology</i> , 2018, 441, 4-11.	2.0	43
86	Analysis of collagen fibril diameter distribution in connective tissues using small-angle X-ray scattering. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1722, 183-188.	2.4	42
87	Collagen XXVII Organises the Pericellular Matrix in the Growth Plate. <i>PLoS ONE</i> , 2011, 6, e29422.	2.5	42
88	Chapter 17 Electron Microscopy of Collagen Fibril Structure In Vitro and In Vivo Including Three-Dimensional Reconstruction. <i>Methods in Cell Biology</i> , 2008, 88, 319-345.	1.1	40
89	Role of dimerization and substrate exclusion in the regulation of bone morphogenetic protein-1 and mammalian tolloid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8561-8566.	7.1	40
90	Identification of the Minimal Domain Structure of Bone Morphogenetic Protein-1 (BMP-1) for Chordinase Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 22616-22623.	3.4	39

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91	A mouse model offers novel insights into the myopathy and tendinopathy often associated with pseudoachondroplasia and multiple epiphyseal dysplasia. <i>Human Molecular Genetics</i> , 2010, 19, 52-64.	2.9	39
92	Matrix metalloproteinase 14 is required for fibrous tissue expansion. <i>ELife</i> , 2015, 4, e09345.	6.0	39
93	Collagen fibril assembly: New approaches to unanswered questions. <i>Matrix Biology Plus</i> , 2021, 12, 100079.	3.5	38
94	Active Negative Control of Collagen Fibrillogenesis in Vivo. <i>Journal of Biological Chemistry</i> , 2008, 283, 12129-12135.	3.4	37
95	Enhanced Islet Cell Nucleomegaly Defines Diffuse Congenital Hyperinsulinism in Infancy but Not Other Forms of the Disease. <i>American Journal of Clinical Pathology</i> , 2016, 145, 757-768.	0.7	36
96	Collagen Assembly at the Cell Surface: Dogmas Revisited. <i>Cells</i> , 2021, 10, 662.	4.1	36
97	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. <i>Journal of Biological Chemistry</i> , 1999, 274, 3632-3641.	3.4	35
98	Type I procollagens containing substitutions of aspartate, arginine, and cysteine for glycine in the pro alpha 1 (I) chain are cleaved slowly by N-proteinase, but only the cysteine substitution introduces a kink in the molecule. <i>Journal of Biological Chemistry</i> , 1992, 267, 25521-8.	3.4	35
99	Assembly of Thin and Thick Fibrils of Collagen II from Recombinant Procollagen II. <i>Journal of Biological Chemistry</i> , 1996, 271, 14864-14869.	3.4	34
100	Echinoderm collagen fibrils grow by surface-nucleation-and-propagation from both centers and ends. <i>Journal of Molecular Biology</i> , 2000, 300, 531-540.	4.2	34
101	ER stress and basement membrane defects combine to cause glomerular and tubular renal disease resulting from <i>Col4a1</i> mutations in mice. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 165-176.	2.4	34
102	Ablating hedgehog signaling in tenocytes during development impairs biomechanics and matrix organization of the adult murine patellar tendon enthesis. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1142-1151.	2.3	33
103	Electron microscope 3D reconstruction of branched collagen fibrils <i>in vivo</i> . <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2009, 19, 547-552.	2.9	32
104	Identification of Amino Acid Residues in Bone Morphogenetic Protein-1 Important for Procollagen C-proteinase Activity. <i>Journal of Biological Chemistry</i> , 2001, 276, 26237-26242.	3.4	30
105	Targeting lysyl oxidase reduces peritoneal fibrosis. <i>PLoS ONE</i> , 2017, 12, e0183013.	2.5	30
106	Deletion of Epidermal Growth Factor-like Domains Converts Mammalian Tolloid into a Chordinase and Effective Procollagen C-proteinase. <i>Journal of Biological Chemistry</i> , 2004, 279, 49835-49841.	3.4	29
107	The Precision of Lateral Size Control in the Assembly of Corneal Collagen Fibrils. <i>Journal of Molecular Biology</i> , 2005, 345, 773-784.	4.2	29
108	Stepwise proteolytic activation of type I procollagen to collagen within the secretory pathway of tendon fibroblasts <i>in situ</i> . <i>Biochemical Journal</i> , 2012, 441, 707-717.	3.7	28

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109	Growth of sea cucumber collagen fibrils occurs at the tips and centers in a coordinated manner 1 Edited by W. Baumeister. Journal of Molecular Biology, 1998, 284, 1417-1424.	4.2	27
110	Growth of Collagen Fibril Seeds from Embryonic Tendon: Fractured Fibril Ends Nucleate New Tip Growth. Journal of Molecular Biology, 2010, 399, 9-16.	4.2	27
111	Chick tendon fibroblast transcriptome and shape depend on whether the cell has made its own collagen matrix. Scientific Reports, 2015, 5, 13555.	3.3	27
112	Self-assembly of rodlike particles in two dimensions: A simple model for collagen fibrillogenesis. Physical Review E, 1994, 50, 2963-2966.	2.1	26
113	Substitutions of aspartic acid for glycine-220 and of arginine for glycine-664 in the triple helix of the pro α 1(I) chain of type I procollagen produce lethal osteogenesis imperfecta and disrupt the ability of collagen fibrils to incorporate crystalline hydroxyapatite. Biochemical Journal, 1995, 311, 815-820.	3.7	25
114	The cell biology of suturing tendons. Matrix Biology, 2010, 29, 525-536.	3.6	25
115	Preservation of circadian rhythms by the protein folding chaperone, BiP. FASEB Journal, 2019, 33, 7479-7489.	0.5	25
116	Surface located procollagen N-propeptides on dermatosparactic collagen fibrils are not cleaved by procollagen N-proteinase and do not inhibit binding of decorin to the fibril surface. Journal of Molecular Biology, 1998, 278, 195-204.	4.2	24
117	Design and synthesis of acidic dipeptide hydroxamate inhibitors of procollagenC-proteinase. Journal of Peptide Science, 2000, 6, 489-495.	1.4	23
118	Non-muscle myosin IIB (Myh10) is required for epicardial function and coronary vessel formation during mammalian development. PLoS Genetics, 2017, 13, e1007068.	3.5	22
119	4-Sodium phenyl butyric acid has both efficacy and counter-indicative effects in the treatment of Col4a1 disease. Human Molecular Genetics, 2019, 28, 628-638.	2.9	22
120	First Evidence of Bone Morphogenetic Protein 1 Expression and Activity in Sheep Ovarian Follicles1. Biology of Reproduction, 2010, 83, 138-146.	2.7	21
121	Three-dimensional reconstructions of extracellular matrix polymers using automated electron tomography. Journal of Structural Biology, 2002, 138, 130-136.	2.8	20
122	Structural and functional evidence for a substrate exclusion mechanism in mammalian tolloid like α 1 (TLL α 1) proteinase. FEBS Letters, 2010, 584, 657-661.	2.8	20
123	Synchronized mechanical oscillations at the cell α matrix interface in the formation of tensile tissue. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9288-E9297.	7.1	20
124	Arhgap28 Is a RhoGAP that Inactivates RhoA and Downregulates Stress Fibers. PLoS ONE, 2014, 9, e107036.	2.5	20
125	Advances in the understanding of tendinopathies: α report on the α cond α avemeyer α W α orkshop on equine tendon disease. Equine Veterinary Journal, 2014, 46, 4-9.	1.7	17
126	Circadian time series proteomics reveals daily dynamics in cartilage physiology. Osteoarthritis and Cartilage, 2021, 29, 739-749.	1.3	17

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127	Discovery of re-purposed drugs that slow SARS-CoV-2 replication in human cells. <i>PLoS Pathogens</i> , 2021, 17, e1009840.	4.7	17
128	Molecular cloning, expression and chromosomal localization of a human gene encoding a 33 kDa putative metalloproteinase (PRSM1). <i>Gene</i> , 1996, 174, 135-143.	2.2	16
129	Importance of the circadian clock in tendon development. <i>Current Topics in Developmental Biology</i> , 2019, 133, 309-342.	2.2	16
130	A tripeptide deletion in the triple-helical domain of the pro alpha 1(I) chain of type I procollagen in a patient with lethal osteogenesis imperfecta does not alter cleavage of the molecule by N-proteinase. <i>Journal of Biological Chemistry</i> , 1992, 267, 25529-34.	3.4	16
131	Electron microscopy in cell-matrix research. <i>Methods</i> , 2008, 45, 53-64.	3.8	15
132	Modification of the Composition of Articular Cartilage Collagen Fibrils with Increasing Age. <i>Connective Tissue Research</i> , 2008, 49, 374-382.	2.3	15
133	Substitution of serine for glycine 883 in the triple helix of the pro alpha 1 (I) chain of type I procollagen produces osteogenesis imperfecta type IV and introduces a structural change in the triple helix that does not alter cleavage of the molecule by procollagen N-proteinase.. <i>Journal of Biological Chemistry</i> , 1994, 269, 30352-30357.	3.4	15
134	Collagen IX: Evidence for a structural association between NC4 domains in cartilage and a novel cleavage site in the $\alpha 1$ (IX) chain. <i>Matrix Biology</i> , 1998, 16, 497-505.	3.6	14
135	Serial block face scanning electron microscopy: A tool for studying embryonic development at the cell-matrix interface. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2015, 105, 9-18.	3.6	14
136	IL-13 deficiency exacerbates lung damage and impairs epithelial-derived type 2 molecules during nematode infection. <i>Life Science Alliance</i> , 2021, 4, e202001000.	2.8	14
137	[50] Procollagen C-peptidase: Procollagen C-proteinase. <i>Methods in Enzymology</i> , 1995, 248, 771-781.	1.0	13
138	A Complete Domain Structure of Drosophila Tollid Is Required for Cleavage of Short Gastrulation. <i>Journal of Biological Chemistry</i> , 2006, 281, 13258-13267.	3.4	13
139	Giantin is required for intracellular N-terminal processing of type I procollagen. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	13
140	Recombinant expression systems for the production of collagen. <i>Biochemical Society Transactions</i> , 2000, 28, 350-3.	3.4	13
141	Tracing the pathway between mutation and phenotype in osteogenesis imperfecta: Isolation of mineralization-specific genes. , 1996, 63, 167-174.		12
142	Substitution of serine for glycine 883 in the triple helix of the pro alpha 1 (I) chain of type I procollagen produces osteogenesis imperfecta type IV and introduces a structural change in the triple helix that does not alter cleavage of the molecule by procollagen N-proteinase. <i>Journal of Biological Chemistry</i> , 1994, 269, 30352-7.	3.4	12
143	Learning how mutations in type I collagen genes cause connective tissue disease. <i>International Journal of Experimental Pathology</i> , 1993, 74, 319-23.	1.3	11
144	On the regulation of collagen-fibril shape and form. <i>Biochemical Society Transactions</i> , 1991, 19, 808-811.	3.4	10

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145	The aromatic zipper: A model for the initial trimerization event in collagen folding. <i>Biochemical Society Transactions</i> , 1991, 19, 365S-365S.	3.4	9
146	Changes in S100 Proteins Identified in Healthy Skin following Electrical Stimulation: Relevance for Wound Healing. <i>Advances in Skin and Wound Care</i> , 2018, 31, 322-327.	1.0	9
147	Material-driven fibronectin assembly rescues matrix defects due to mutations in collagen IV in fibroblasts. <i>Biomaterials</i> , 2020, 252, 120090.	11.4	9
148	Protein structure and the specific heat of water. <i>Nature</i> , 1987, 325, 395-395.	27.8	8
149	[49] Procollagen N-peptidases: Procollagen N-proteinases. <i>Methods in Enzymology</i> , 1995, 248, 756-771.	1.0	8
150	Cellular homeostatic tension and force transmission measured in human engineered tendon. <i>Journal of Biomechanics</i> , 2018, 78, 161-165.	2.1	8
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