

Peter Bruckner

List of Publications by Year in descending order

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92
papers

8,604
citations

41344

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Analysis of opticin binding to collagen fibrils identifies a single binding site in the gap region and a high specificity towards thin heterotypic fibrils containing collagens II, and XI or V/XI. PLoS ONE, 2020, 15, e0234672.	2.5	1
2	Forced exercise-induced osteoarthritis is attenuated in mice lacking the small leucine-rich proteoglycan decorin. Annals of the Rheumatic Diseases, 2017, 76, 442-449.	0.9	42
3	The binding capacity of $\alpha 1(\text{I})$ -, $\alpha 2(\text{I})$ - and $\alpha 10(\text{I})$ -integrins depends on non-collagenous surface macromolecules rather than the collagens in cartilage fibrils. Matrix Biology, 2017, 63, 91-105.	3.6	44
4	Supramolecular Organization of Collagen Fibrils in Healthy and Osteoarthritic Human Knee and Hip Joint Cartilage. PLoS ONE, 2016, 11, e0163552.	2.5	65
5	ER Stress During the Pubertal Growth Spurt Results in Impaired Long-Bone Growth in Chondrocyte-Specific ERp57 Knockout Mice. Journal of Bone and Mineral Research, 2015, 30, 1481-1493.	2.8	26
6	Lateral Growth Limitation of Corneal Fibrils and Their Lamellar Stacking Depend on Covalent Collagen Cross-linking by Transglutaminase-2 and Lysyl Oxidases, Respectively. Journal of Biological Chemistry, 2014, 289, 921-929.	3.4	16
7	Cerebral Aneurysms: Formation, Progression, and Developmental Chronology. Translational Stroke Research, 2014, 5, 167-173.	4.2	49
8	Age of Collagen in Intracranial Saccular Aneurysms. Stroke, 2014, 45, 1757-1763.	2.0	35
9	Exploring the Age of Intracranial Aneurysms Using Carbon Birth Dating. Stroke, 2013, 44, 799-802.	2.0	20
10	Syndecan 4 supports bone fracture repair, but not fetal skeletal development, in mice. Arthritis and Rheumatism, 2013, 65, 743-752.	6.7	44
11	A8.13...Syndecan-4 Function is Essential for Matrix Remodelling Under Inflammatory Conditions, But Dispensable During Embryogenesis. Annals of the Rheumatic Diseases, 2013, 72, A61.3-A62.	0.9	0
12	The Epidermal Basement Membrane Is a Composite of Separate Laminin- or Collagen IV-containing Networks Connected by Aggregated Perlecan, but Not by Nidogens. Journal of Biological Chemistry, 2012, 287, 18700-18709.	3.4	144
13	WARP Interacts with Collagen VI-Containing Microfibrils in the Pericellular Matrix of Human Chondrocytes. PLoS ONE, 2012, 7, e52793.	2.5	23
14	A secreted variant of cartilage oligomeric matrix protein carrying a chondrodysplasia-causing mutation (p.H587R) disrupts collagen fibrillogenesis. Arthritis and Rheumatism, 2011, 63, 159-167.	6.7	20
15	Collagens, Suprastructures, and Collagen Fibril Assembly. , 2011, , 77-115.		51
16	Suprastructures of extracellular matrices: paradigms of functions controlled by aggregates rather than molecules. Cell and Tissue Research, 2010, 339, 7-18.	2.9	82
17	Biglycan, a Danger Signal That Activates the NLRP3 Inflammasome via Toll-like and P2X Receptors. Journal of Biological Chemistry, 2009, 284, 24035-24048.	3.4	407
18	Aberrations of dermal connective tissue in patients with cervical artery dissection (sCAD). Journal of Neurology, 2008, 255, 340-346.	3.6	22

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19	Unilateral nephrectomy leads to up-regulation of syndecan-2- and TGF-beta-mediated glomerulosclerosis in syndecan-4 deficient male mice. <i>Matrix Biology</i> , 2008, 27, 42-52.	3.6	24
20	Collagen IX-deficiency seriously compromises growth cartilage development in mice. <i>Matrix Biology</i> , 2008, 27, 319-329.	3.6	50
21	Terminal Differentiation of Chick Embryo Chondrocytes Requires Shedding of a Cell Surface Protein That Binds 1,25-Dihydroxyvitamin D3. <i>Journal of Biological Chemistry</i> , 2008, 283, 1104-1112.	3.4	18
22	Supramolecular Interactions in the Dermo-epidermal Junction Zone. <i>Journal of Biological Chemistry</i> , 2008, 283, 24506-24513.	3.4	111
23	Type XXVII collagen at the transition of cartilage to bone during skeletogenesis. <i>Bone</i> , 2007, 41, 535-542.	2.9	67
24	Collagen IX is indispensable for timely maturation of cartilage during fracture repair in mice. <i>Matrix Biology</i> , 2007, 26, 85-95.	3.6	32
25	The glycosaminoglycan chain of decorin plays an important role in collagen fibril formation at the early stages of fibrillogenesis. <i>FEBS Journal</i> , 2007, 274, 4246-4255.	4.7	133
26	The anchorless adhesin Eap (extracellular adherence protein) from <i>Staphylococcus aureus</i> selectively recognizes extracellular matrix aggregates but binds promiscuously to monomeric matrix macromolecules. <i>Matrix Biology</i> , 2006, 25, 252-260.	3.6	26
27	Supramolecular Structure of Cartilage Matrix. , 2006, , 407-420.		1
28	WARP Is a Novel Multimeric Component of the Chondrocyte Pericellular Matrix That Interacts with Perlecan. <i>Journal of Biological Chemistry</i> , 2006, 281, 7341-7349.	3.4	41
29	Collagen XII Interacts with Avian Tenascin-X through Its NC3 Domain. <i>Journal of Biological Chemistry</i> , 2006, 281, 27461-27470.	3.4	83
30	Altered Integration of Matrilin-3 into Cartilage Extracellular Matrix in the Absence of Collagen IX. <i>Molecular and Cellular Biology</i> , 2005, 25, 10465-10478.	2.3	136
31	Collagenous Transmembrane Proteins: Recent Insights into Biology and Pathology*. <i>Journal of Biological Chemistry</i> , 2005, 280, 4005-4008.	3.4	144
32	A Novel Marker of Tissue Junctions, Collagen XXII. <i>Journal of Biological Chemistry</i> , 2004, 279, 22514-22521.	3.4	179
33	Recombinant Human Laminin-5 Domains. <i>Journal of Biological Chemistry</i> , 2004, 279, 5184-5193.	3.4	45
34	Collagen XVIII/endostatin is essential for vision and retinal pigment epithelial function. <i>EMBO Journal</i> , 2004, 23, 89-99.	7.8	114
35	Pro-MMP-9 is a specific macrophage product and is activated by osteoarthritic chondrocytes via MMP-3 or a MT1-MMP/MMP-13 cascade. <i>Experimental Cell Research</i> , 2004, 297, 303-312.	2.6	103
36	Molecular Structure and Interaction of Recombinant Human Type XVI Collagen. <i>Journal of Molecular Biology</i> , 2004, 339, 835-853.	4.2	57

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37	The role of reactive oxygen species in homeostasis and degradation of cartilage. <i>Osteoarthritis and Cartilage</i> , 2003, 11, 747-755.	1.3	629
38	Discrete integration of collagen XVI into tissue-specific collagen fibrils or beaded microfibrils. <i>Matrix Biology</i> , 2003, 22, 131-143.	3.6	98
39	SC1/Hevin. <i>Journal of Biological Chemistry</i> , 2003, 278, 11351-11358.	3.4	75
40	Macromolecular Specificity of Collagen Fibrillogenesis. <i>Journal of Biological Chemistry</i> , 2003, 278, 37352-37359.	3.4	73
41	Vipera lebetina Venom Contains Two Disintegrins Inhibiting Laminin-binding $\alpha 2 \beta 1$ Integrins. <i>Journal of Biological Chemistry</i> , 2003, 278, 26488-26496.	3.4	45
42	Absence of Decorin Adversely Influences Tubulointerstitial Fibrosis of the Obstructed Kidney by Enhanced Apoptosis and Increased Inflammatory Reaction. <i>American Journal of Pathology</i> , 2002, 160, 1181-1191.	3.8	212
43	Rhodocetin antagonizes stromal tumor invasion in vitro and other $\alpha 2 \beta 1$ integrin-mediated cell functions. <i>Matrix Biology</i> , 2002, 21, 547-558.	3.6	47
44	The integrin $\alpha 2 \beta 1$ subunit cytoplasmic tail forms oligomers: a potential role in $\alpha 2 \beta 1$ integrin clustering. <i>Biology of the Cell</i> , 2002, 94, 375-387.	2.0	12
45	Endochondral ossification of costal cartilage is arrested after chondrocytes have reached hypertrophic stage of late differentiation. <i>Matrix Biology</i> , 2001, 19, 707-715.	3.6	24
46	Role of the subchondral vascular system in endochondral ossification: endothelial cell-derived proteinases derepress late cartilage differentiation in vitro. <i>Matrix Biology</i> , 2001, 20, 205-213.	3.6	34
47	Paracrine interactions of chondrocytes and macrophages in cartilage degradation: articular chondrocytes provide factors that activate macrophage-derived pro-gelatinase B (pro-MMP-9). <i>Journal of Cell Science</i> , 2001, 114, 3813-3822.	2.0	62
48	Periosteally derived osteoblast-like cells differentiate into chondrocytes in suspension culture in agarose. , 2000, 259, 124-130.		27
49	Collagen XVII Is Destabilized by a Glycine Substitution Mutation in the Cell Adhesion Domain Col15. <i>Journal of Biological Chemistry</i> , 2000, 275, 3093-3099.	3.4	52
50	Collagen XI Nucleates Self-assembly and Limits Lateral Growth of Cartilage Fibrils. <i>Journal of Biological Chemistry</i> , 2000, 275, 10370-10378.	3.4	224
51	Spatio-temporal distribution of chondromodulin-I mRNA in the chicken embryo: Expression during cartilage development and formation of the heart and eye. , 1999, 216, 233-243.		30
52	Collagen XVI is expressed by human dermal fibroblasts and keratinocytes and is associated with the microfibrillar apparatus in the upper papillary dermis. <i>Matrix Biology</i> , 1999, 18, 309-317.	3.6	49
53	Terminal differentiation of chondrocytes is arrested at distinct stages identified by their expression repertoire of marker genes. <i>Matrix Biology</i> , 1998, 17, 435-448.	3.6	42
54	Decorin Core Protein Fragment Leu155-Val260 Interacts with TGF- $\beta 2$ but Does Not Compete for Decorin Binding to Type I Collagen. <i>Archives of Biochemistry and Biophysics</i> , 1998, 355, 241-248.	3.0	138

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55	Role of the Subchondral Vascular System in Endochondral Ossification: Endothelial Cells Specifically Derepress Late Differentiation in Resting Chondrocytes in Vitro. <i>Experimental Cell Research</i> , 1998, 238, 491-497.	2.6	57
56	Cartilage Fibrils of Mammals are Biochemically Heterogeneous: Differential Distribution of Decorin and Collagen IX. <i>Journal of Cell Biology</i> , 1998, 142, 285-294.	5.2	119
57	Absence of the $\alpha 1(\text{IX})$ Chain Leads to a Functional Knock-out of the Entire Collagen IX Protein in Mice. <i>Journal of Biological Chemistry</i> , 1997, 272, 20650-20654.	3.4	87
58	Distinct Isoforms of Chicken Decorin Contain Either One or Two Dermatan Sulfate Chains. <i>Journal of Biological Chemistry</i> , 1996, 271, 30347-30353.	3.4	30
59	Terminal Differentiation of Chondrocytes in Culture Is a Spontaneous Process and Is Arrested by Transforming Growth Factor- $\beta 2$ and Basic Fibroblast Growth Factor in Synergy. <i>Experimental Cell Research</i> , 1995, 216, 191-198.	2.6	105
60	Structure and function of cartilage collagens. <i>Microscopy Research and Technique</i> , 1994, 28, 378-384.	2.2	146
61	Delayed Triple Helix Formation of Mutant Collagen from Patient with Osteogenesis Imperfecta. <i>Journal of Molecular Biology</i> , 1994, 236, 940-949.	4.2	126
62	Collagens: diversity at the molecular and supramolecular levels. <i>Current Opinion in Structural Biology</i> , 1993, 3, 430-436.	5.7	55
63	Induction of proliferation or hypertrophy of chondrocytes in serum-free culture: the role of insulin-like growth factor-I, insulin, or thyroxine.. <i>Journal of Cell Biology</i> , 1992, 116, 1035-1042.	5.2	162
64	Mechanism of action of FK 506 and cyclosporin. <i>Lancet, The</i> , 1991, 337, 439.	13.7	7
65	Cartilage contains mixed fibrils of collagen types II, IX, and XI.. <i>Journal of Cell Biology</i> , 1989, 108, 191-197.	5.2	476
66	Induction and prevention of chondrocyte hypertrophy in culture.. <i>Journal of Cell Biology</i> , 1989, 109, 2537-2545.	5.2	156
67	Anchoring Fibrils and Type VII collagen are Absent From Skin in Severe Recessive Dystrophic Epidermolysis Bullosa. <i>Journal of Investigative Dermatology</i> , 1989, 93, 3-9.	0.7	119
68	D-periodic distribution of collagen type IX along cartilage fibrils.. <i>Journal of Cell Biology</i> , 1988, 106, 991-997.	5.2	342
69	Tissue form of type VII collagen from human skin and dermal fibroblasts in culture. <i>FEBS Journal</i> , 1987, 165, 607-611.	0.2	90
70	Type VI collagen represents a major fraction of connective tissue collagens. <i>FEBS Journal</i> , 1987, 166, 699-703.	0.2	81
71	On the role of type IX collagen in the extracellular matrix of cartilage: type IX collagen is localized to intersections of collagen fibrils.. <i>Journal of Cell Biology</i> , 1986, 102, 1931-1939.	5.2	179
72	Type IX collagen from sternal cartilage of chicken embryo contains covalently bound glycosaminoglycans.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985, 82, 2608-2612.	7.1	106

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73	High Post-translational Modification Levels In Type II Procollagen Are Not A Consequence Of Slow Triple-Helix Formation. <i>Collagen and Related Research</i> , 1985, 5, 245-251.	2.0	9
74	Type IX Collagen Identified As Proteoglycan Lt. <i>Annals of the New York Academy of Sciences</i> , 1985, 460, 397-398.	3.8	3
75	Formation of the triple helix of type I procollagen in cellulo. Temperature-dependent kinetics support a model based on cis trans isomerization of peptide bonds. <i>FEBS Journal</i> , 1984, 140, 391-395.	0.2	53
76	Procollagen is more stable in cellulo than in vitro. <i>FEBS Journal</i> , 1984, 140, 397-399.	0.2	38
77	Immunochemical properties of the aminopropeptide of procollagen type III. <i>FEBS Journal</i> , 1983, 135, 197-202.	0.2	21
78	p-HMW-Collagen, a minor collagen obtained from chick embryo cartilage without proteolytic treatment of the tissue. <i>FEBS Journal</i> , 1983, 136, 333-339.	0.2	47
79	Structural and Immunological Characterization of Type IV Collagen Isolated from Chicken Tissues. <i>FEBS Journal</i> , 1982, 126, 417-423.	0.2	26
80	Structure and Helical Stability of a Modified Procollagen Synthesized in the Presence of 3,4-Dehydroproline. <i>Journal of Biological Chemistry</i> , 1982, 257, 9181-9188.	3.4	19
81	Isolation of unhydroxylated type I procollagen folding of the protein in vitro. <i>Archives of Biochemistry and Biophysics</i> , 1981, 212, 668-677.	3.0	36
82	Formation of the Triple Helix of Type I Procollagen in cellulo. A Kinetic Model Based on cis-trans Isomerization of Peptide Bonds. <i>FEBS Journal</i> , 1981, 118, 607-613.	0.2	102
83	Disorder of collagen metabolism in a patient with osteogenesis imperfecta (lethal type): increased degree of hydroxylation of lysine in collagen types I and III. <i>European Journal of Clinical Investigation</i> , 1981, 11, 39-47.	3.4	79
84	Proteolytic enzymes as probes for the triple-helical conformation of procollagen. <i>Analytical Biochemistry</i> , 1981, 110, 360-368.	2.4	329
85	Folding Mechanism of the Triple Helix in Type-III Collagen and Type-III pN-Collagen. Role of Disulfide Bridges and Peptide Bond Isomerization. <i>FEBS Journal</i> , 1980, 106, 619-632.	0.2	248
86	Characterization of Pepsin Fragments of Basement Membrane Collagen Obtained from a Mouse Tumor. <i>FEBS Journal</i> , 1979, 95, 255-263.	0.2	119
87	Nature of the Collagenous Protein in a Tumor Basement Membrane. <i>FEBS Journal</i> , 1978, 84, 43-52.	0.2	323
88	Three Conformationally Distinct Domains in the Amino-Terminal Segment of Type III Procollagen and Its Rapid Triple Helix Coil Transition. <i>FEBS Journal</i> , 1978, 90, 595-603.	0.2	116
89	The Role of Cis-Trans Isomerization of Peptide Bonds in the Coil Triple Helix Conversion of Collagen. <i>FEBS Journal</i> , 1978, 90, 605-613.	0.2	124
90	Physical properties of the amino-terminal precursor-specific portion of type I procollagen. <i>Biochemistry</i> , 1977, 16, 4026-4033.	2.5	42

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91	A Classical Synthesis of the Collagen-like Peptides with the Sequence Z(GlyProPro) _n OBu and their characterization with circular dichroism and ultracentrifugation. <i>Helvetica Chimica Acta</i> , 1975, 58, 1276-1287.	1.6	14
92	Collagen Suprastructures. <i>Topics in Current Chemistry</i> , 0, , 185-205.	4.0	84