Andrzej Fertala

List of Publications by Year
in descending order

83	3,122	147801	168389
papers	citations	31 h-index	53 g-index

83	83	83	3364
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Circulating inflammatory cytokines alter transcriptional activity within fibrotic tissue of Dupuytren's disease patients. Journal of Orthopaedic Research, 2021, , .	2.3	2
2	Mechanisms of reducing joint stiffness by blocking collagen fibrillogenesis in a rabbit model of posttraumatic arthrofibrosis. PLoS ONE, 2021, 16, e0257147.	2.5	9
3	Collagen Structure-Function Mapping Informs Applications for Regenerative Medicine. Bioengineering, 2021, 8, 3.	3.5	46
4	Collagenâ€rich deposit formation in the sciatic nerve after injury and surgical repair: A study of collagenâ€producing cells in a rabbit model. Brain and Behavior, 2020, 10, e01802.	2.2	19
5	Three Decades of Research on Recombinant Collagens: Reinventing the Wheel or Developing New Biomedical Products?. Bioengineering, 2020, 7, 155.	3.5	39
6	RNA binding protein HuR regulates extracellular matrix gene expression and pH homeostasis independent of controlling HIF-1Î± signaling in nucleus pulposus cells. Matrix Biology, 2019, 77, 23-40.	3.6	32
7	The impact of cholesterol deposits on the fibrillar architecture of the Achilles tendon in a rabbit model of hypercholesterolemia. Journal of Orthopaedic Surgery and Research, 2019, 14, 172.	2.3	17
8	Naproxen impairs load-induced bone formation, reduces bone toughness, and diminishes woven bone formation following stress fracture in mice. Bone, 2019, 124, 22-32.	2.9	23
9	Fibrosis in distinct tissues. Connective Tissue Research, 2019, 60, 1-2.	2.3	5
10	Functional and structural studies of tolloid-like 1 mutants associated with atrial-septal defect 6. Bioscience Reports, 2019, 39, .	2.4	7
11	Fibroblasts from recurrent fibrotic overgrowths reveal high rate of proliferation in vitro - findings from the study of hereditary and idiopathic gingival fibromatosis. Connective Tissue Research, 2019, 60, 29-39.	2.3	8
12	Engineering the Second Generation of Therapeutic Cells with Enhanced Targeting of Injured Tissues. Tissue Engineering - Part A, 2018, 24, 1293-1300.	3.1	0
13	A PERIPHERAL NERVE INJURY MODEL UTILIZING A SIMPLE TISSUE SPARING APPROACH TO THE RABBIT SCIATIC NERVE. Journal of Musculoskeletal Research, 2018, 21, 1850002.	0.2	1
14	Epiphyseal growth plate architecture is unaffected by early postnatal activation of the expression of R992C collagen II mutant. Bone, 2018, 112, 42-50.	2.9	4
15	TIMPâ€1 association with collagen type I overproduction in hereditary gingival fibromatosis. Oral Diseases, 2018, 24, 1581-1590.	3.0	18
16	The Molecular Basis of Genetic Collagen Disorders and Its Clinical Relevance. Journal of Bone and Joint Surgery - Series A, 2018, 100, 976-986.	3.0	6
17	Patterns of production of collagenâ€rich deposits in peripheral nerves in response to injury: A pilot study in a rabbit model. Brain and Behavior, 2017, 7, e00659.	2.2	7
18	P15 peptide stimulates chondrogenic commitment and endochondral ossification. International Orthopaedics, 2017, 41, 1413-1422.	1.9	5

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19	Target-Specific Delivery of an Antibody That Blocks the Formation of Collagen Deposits in Skin and Lung. Monoclonal Antibodies in Immunodiagnosis and Immunotherapy, 2017, 36, 199-207.	1.6	5
20	Blocking collagen fibril formation in injured knees reduces flexion contracture in a rabbit model. Journal of Orthopaedic Research, 2017, 35, 1038-1046.	2.3	26
21	Piezoelectric Tensor of Collagen Fibrils Determined at the Nanoscale. ACS Biomaterials Science and Engineering, 2017, 3, 929-935.	5.2	69
22	Prospects and limitations of improving skeletal growth in a mouse model of spondyloepiphyseal dysplasia caused by R992C (p.R1192C) substitution in collagen II. PLoS ONE, 2017, 12, e0172068.	2.5	4
23	Auxiliary proteins that facilitate formation of collagenâ€rich deposits in the posterior knee capsule in a rabbitâ€based joint contracture model. Journal of Orthopaedic Research, 2016, 34, 489-501.	2.3	24
24	Gingival fibromatosis with significant de novo formation of fibrotic tissue and a high rate of recurrence. American Journal of Case Reports, 2016, 17, 671-675.	0.8	11
25	Designing Recombinant Collagens for Biomedical Applications. Current Tissue Engineering, 2016, 5, 73-84.	0.2	10
26	Matrix-Specific Anchors: A New Concept for Targeted Delivery and Retention of Therapeutic Cells. Tissue Engineering - Part A, 2015, 21, 1207-1216.	3.1	6
27	Tissue Engineered Collagen Specific Anchors Increase Cellular Integration in a Tendon Injury Model. Journal of Hand Surgery, 2015, 40, e18-e19.	1.6	0
28	Mechanisms of Aberrant Organization of Growth Plates in Conditional Transgenic Mouse Model of Spondyloepiphyseal Dysplasia Associated with the R992C Substitution in Collagen II. American Journal of Pathology, 2015, 185, 214-229.	3.8	19
29	Testing the anti-fibrotic potential of the single-chain Fv antibody against theÎ±2 C-terminal telopeptide of collagen I. Connective Tissue Research, 2014, 55, 115-122.	2.3	12
30	Developmental Upregulation of an Alternative Form of pcp2 with Reduced GDI Activity. Cerebellum, 2014, 13, 207-214.	2.5	4
31	Skeletal diseases caused by mutations that affect collagen structure and function. International Journal of Biochemistry and Cell Biology, 2013, 45, 1556-1567.	2.8	39
32	Engineering and Characterization of the Chimeric Antibody That Targets the C-terminal Telopeptide of the Î±2 Chain of Human Collagen I: A Next Step in the Quest to Reduce Localized Fibrosis. Connective Tissue Research, 2013, 54, 187-196.	2.3	17
33	Kuskokwim Syndrome, a Recessive Congenital Contracture Disorder, Extends the Phenotype ofFKBP10â€‰Mutations. Human Mutation, 2013, 34, 1279-1288.	2.5	53
34	Remodeling of the Dermalâ€“Epidermal Junction in Bilayered Skin Constructs After Silencing the Expression of the p.R2622Q and p.G2623C Collagen VII Mutants. Connective Tissue Research, 2012, 53, 379-389.	2.3	2
35	Inhibition of collagen fibril formation. Fibrogenesis and Tissue Repair, 2012, 5, S29.	3.4	21
36	Persistence of intracellular and extracellular changes after incompletely suppressing expression of the R789C (p.R989C) and R992C (p.R1192C) collagen II mutants. Human Mutation, 2011, 32, 794-805.	2.5	10

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37	Perlecan domain V is neuroprotective and proangiogenic following ischemic stroke in rodents. Journal of Clinical Investigation, 2011, 121, 3005-3023.	8.2	133
38	Endostatin binds nerve growth factor and thereby inhibits neurite outgrowth and neuronal migration in-vitro. Brain Research, 2010, 1360, 28-39.	2.2	18
39	Recessive COL6A2 C-globular Missense Mutations in Ullrich Congenital Muscular Dystrophy. Journal of Biological Chemistry, 2010, 285, 10005-10015.	3.4	22
40	Compound Heterozygous Desmoplakin Mutations Result in a Phenotype with a Combination of Myocardial, Skin, Hair, and Enamel Abnormalities. Journal of Investigative Dermatology, 2010, 130, 968-978.	0.7	57
41	Reducing the effects of intracellular accumulation of thermolabile collagen II mutants by increasing their thermostability in cell culture conditions. Biochemical and Biophysical Research Communications, 2010, 396, 213-218.	2.1	7
42	Fluorescent protein markers to tag collagenous proteins: The paradigm of procollagen VII. Biochemical and Biophysical Research Communications, 2009, 390, 662-666.	2.1	5
43	R992C (p.R1192C) Substitution in Collagen II Alters the Structure of Mutant Molecules and Induces the Unfolded Protein Response. Journal of Molecular Biology, 2009, 390, 306-318.	4.2	30
44	Cells expressing partially unfolded R789C/p.R989C type II procollagen mutant associated with spondyloepiphyseal dysplasia undergo apoptosis. Human Mutation, 2008, 29, 841-851.	2.5	31
45	Candidate Cell and Matrix Interaction Domains on the Collagen Fibril, the Predominant Protein of Vertebrates. Journal of Biological Chemistry, 2008, 283, 21187-21197.	3.4	244
46	Collagen Fibril Formation. Journal of Biological Chemistry, 2008, 283, 25879-25886.	3.4	65
47	Molecular basis of organization of collagen fibrils. Journal of Structural Biology, 2007, 157, 297-307.	2.8	30
48	Anchorless keratinocyte survival: an emerging pathogenic mechanism for squamous cell carcinoma in recessive dystrophic epidermolysis bullosa. Experimental Dermatology, 2007, 16, 465-467.	2.9	7
49	Y-position cysteine substitution in type I collagen (Î±1(I) R888C/p.R1066C) is associated with osteogenesis imperfecta/Ehlers-Danlos syndrome phenotype. Human Mutation, 2007, 28, 396-405.	2.5	63
50	High-affinity binding of the NC1 domain of collagen VII to laminin 5 and collagen IV. Biochemical and Biophysical Research Communications, 2006, 343, 692-699.	2.1	69
51	Extracellular matrix protein 1 inhibits the activity of matrix metalloproteinase 9 through high-affinity protein/protein interactions. Experimental Dermatology, 2006, 15, 300-307.	2.9	88
52	Testing the utility of rationally engineered recombinant collagen-like proteins for applications in tissue engineering. Journal of Biomedical Materials Research - Part A, 2006, 76A, 551-560.	4.0	40
53	Single Amino Acid Substitutions in Procollagen VII Affect Early Stages of Assembly of Anchoring Fibrils. Journal of Biological Chemistry, 2005, 280, 191-198.	3.4	29
54	Identifying the SPARC Binding Sites on Collagen I and Procollagen I by Atomic Force Microscopy. Analytical Chemistry, 2005, 77, 6765-6771.	6.5	35

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55	Guilty by Association: Some Collagen II Mutants Alter the Formation of ECM as a Result of Atypical Interaction with Fibronectin. Journal of Molecular Biology, 2005, 352, 382-395.	4.2	32
56	Extracellular matrix protein 1 interacts with the domain III of fibulin-1C and 1D variants through its central tandem repeat 2. Biochemical and Biophysical Research Communications, 2005, 333, 1327-1333.	2.1	41
57	Single amino acid substitutions in the C-terminus of collagen II alter its affinity for collagen IX. Biochemical and Biophysical Research Communications, 2005, 335, 749-755.	2.1	5
58	Differential structural properties and expression patterns suggest functional significance for multiple mouse desmoglein 1 isoforms. Differentiation, 2004, 72, 434-449.	1.9	25
59	Stretching type II collagen with optical tweezers. Journal of Biomechanics, 2004, 37, 1665-1669.	2.1	127
60	Structural determinants of the selectivity of KTS-disintegrins for the Î±1Î²1 integrin. FEBS Letters, 2004, 577, 478-482.	2.8	56
61	Position of single amino acid substitutions in the collagen triple helix determines their effect on structure of collagen fibrils. Journal of Structural Biology, 2004, 148, 326-337.	2.8	41
62	Thermostability Gradient in the Collagen Triple Helix Reveals its Multi-domain Structure. Journal of Molecular Biology, 2004, 338, 989-998.	4.2	37
63	The D2 Period of Collagen II Contains a Specific Binding Site for the Human Discoidin Domain Receptor, DDR2. Journal of Molecular Biology, 2004, 344, 993-1003.	4.2	87
64	Prospects and limitations of the rational engineering of fibrillar collagens. Protein Science, 2003, 12, 2063-2072.	7.6	32
65	Procollagen VII Self-Assembly Depends on Site-Specific Interactions and Is Promoted by Cleavage of the NC2 Domain with Procollagen C-Proteinase. Biochemistry, 2003, 42, 11434-11442.	2.5	35
66	Biochemical composition and histologic structure of the forearm interosseous membrane. Journal of Hand Surgery, 2003, 28, 503-510.	1.6	18
67	Procollagen with Skipping of Î±1(I) Exon 41 Has Lower Binding Affinity for Î±1(I) C-telopeptide, Impaired in Vitro Fibrillogenesis, and Altered Fibril Morphology. Journal of Biological Chemistry, 2002, 277, 4215-4222.	3.4	15
68	Direct quantification of the flexibility of type I collagen monomer. Biochemical and Biophysical Research Communications, 2002, 295, 382-386.	2.1	201
69	SITE-SPECIFIC INTERACTION OF BONE MORPHOGENETIC PROTEIN 2 WITH PROCOLLAGEN II. Cytokine, 2002, 18, 214-221.	3.2	45
70	Collagen II Containing a Cys Substitution for Arg-Î±1â^'519:Â Abnormal Interactions of the Mutated Molecules with Collagen IXâ€. Biochemistry, 2001, 40, 14422-14428.	2.5	26
71	Transgenic mice with inactive alleles for procollagen N-proteinase (ADAMTS-2) develop fragile skin and male sterility. Biochemical Journal, 2001, 355, 271-278.	3.7	106
72	Mapping critical sites in collagen II for rational design of gene-engineered proteins for cell-supporting materials. Journal of Biomedical Materials Research Part B, 2001, 57, 48-58.	3.1	99

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73	Transgenic mice with inactive alleles for procollagen N-proteinase (ADAMTS-2) develop fragile skin and male sterility. Biochemical Journal, 2001, 355, 271.	3.7	90
74	Lack of a phenotype in transgenic mice aberrantly expressing COL2A1 mRNA because of highly selective post-transcriptional down-regulation. Biochemical Journal, 2000, 345, 377-384.	3.7	1
75	Collagen II containing a Cys substitution for Arg-Î±1-519. Analysis by atomic force microscopy demonstrates that mutated monomers alter the topography of the surface of collagen II fibrils. Matrix Biology, 1999, 18, 189-196.	3.6	18
76	The Collagen Fibril: The Almost Crystalline Structure. Journal of Structural Biology, 1998, 122, 111-118.	2.8	167
77	Inhibition of the Self-assembly of Collagen I into Fibrils with Synthetic Peptides. Journal of Biological Chemistry, 1998, 273, 15598-15604.	3.4	121
78	Recombinant Procollagen II: Deletion of D Period Segments Identifies Sequences That Are Required for Helix Stabilization and Generates a Temperature-sensitive N-Proteinase Cleavage Site. Journal of Biological Chemistry, 1998, 273, 31822-31828.	3.4	46
79	Collagen II Containing a Cys Substitution for Arg-Î±1-519. Journal of Biological Chemistry, 1997, 272, 6457-6464.	3.4	32
80	A recombinant homotrimer of type I procollagen that lacks the central two D-periods. The thermal stability of the triple helix is decreased by 2 to 4 Â°C. Matrix Biology, 1997, 16, 245-253.	3.6	8
81	A cDNA Cassette system for the synthesis of recombinant procollagens. Variants of Procollagen II lacking a D-period are secreted as triple-helical monomers. Matrix Biology, 1997, 16, 105-116.	3.6	20
82	Characterization of Recombinant Human Collagen II with Arg519-to-Cys Substitutiona. Annals of the New York Academy of Sciences, 1996, 785, 251-253.	3.8	4
83	Assembly of Thin and Thick Fibrils of Collagen II from Recombinant Procollagen II. Journal of Biological Chemistry, 1996, 271, 14864-14869.	3.4	34