

Eero Vuorio

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

5,236
citations

42
h-index

71
g-index

92
ext. papers

5,468
ext. citations

7.5
avg, IF

4.87
L-index

#	Paper	IF	Citations
92	The family of collagen genes. <i>Annual Review of Biochemistry</i> , 1990 , 59, 837-72	29.1	448
91	Localization of types I, II, and III collagen mRNAs in developing human skeletal tissues by in situ hybridization. <i>Journal of Cell Biology</i> , 1987 , 104, 1077-84	7.3	294
90	Collagenase-3 (MMP-13) is expressed by hypertrophic chondrocytes, periosteal cells, and osteoblasts during human fetal bone development. <i>Developmental Dynamics</i> , 1997 , 208, 387-97	2.9	225
89	Osteoclast-specific cathepsin K deletion stimulates S1P-dependent bone formation. <i>Journal of Clinical Investigation</i> , 2013 , 123, 666-81	15.9	203
88	A standardized experimental fracture in the mouse tibia. <i>Journal of Orthopaedic Research</i> , 1993 , 11, 305-18	3.8	153
87	Identification of fibroblasts responsible for increased collagen production in localized scleroderma by in situ hybridization. <i>Journal of Investigative Dermatology</i> , 1988 , 90, 664-70	4.3	150
86	Characterization of primary cultures of chondrocytes from type II collagen/beta-galactosidase transgenic mice. <i>Matrix Biology</i> , 1994 , 14, 329-35	11.4	139
85	Impaired bone resorption in cathepsin K-deficient mice is partially compensated for by enhanced osteoclastogenesis and increased expression of other proteases via an increased RANKL/OPG ratio. <i>Bone</i> , 2005 , 36, 159-72	4.7	136
84	Specific hybridization probes for mouse type I, II, III and IX collagen mRNAs. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1991 , 1089, 241-3		133
83	Normal long bone growth and development in type X collagen-null mice. <i>Nature Genetics</i> , 1994 , 8, 129-35	6.3	129
82	Collagens and collagen-related matrix components in the human and mouse eye. <i>Progress in Retinal and Eye Research</i> , 2004 , 23, 403-34	20.5	122
81	Reduced amounts of cartilage collagen fibrils and growth plate anomalies in transgenic mice harboring a glycine-to-cysteine mutation in the mouse type II procollagen alpha 1-chain gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 9648-52	11.5	122
80	Predisposition to familial osteoarthritis linked to type II collagen gene. <i>Lancet, The</i> , 1989 , 1, 924-7	40	120
79	Silica-based bioactive glasses modulate expression of bone morphogenetic protein-2 mRNA in Saos-2 osteoblasts in vitro. <i>Biomaterials</i> , 2001 , 22, 1475-83	15.6	115
78	Interleukin-1 increases collagen production and mRNA levels in cultured skin fibroblasts. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1987 , 929, 142-7	4.9	110
77	Accelerated turnover of metaphyseal trabecular bone in mice overexpressing cathepsin K. <i>Journal of Bone and Mineral Research</i> , 2001 , 16, 1444-52	6.3	100
76	Comparative effects of interleukin-1 and tumor necrosis factor-alpha on collagen production and corresponding procollagen mRNA levels in human dermal fibroblasts. <i>Journal of Investigative Dermatology</i> , 1991 , 96, 243-9	4.3	96

75	Individual Timp deficiencies differentially impact pro-MMP-2 activation. <i>Journal of Biological Chemistry</i> , 2006 , 281, 10337-46	5.4	95
74	Mouse cathepsin K: cDNA cloning and predominant expression of the gene in osteoclasts, and in some hypertrophying chondrocytes during mouse development. <i>FEBS Letters</i> , 1996 , 393, 307-13	3.8	85
73	Stage-and tissue-specific expression of a Col2a1-Cre fusion gene in transgenic mice. <i>Matrix Biology</i> , 2001 , 19, 761-7	11.4	81
72	Expression of mRNAs for collagens and other matrix components in dedifferentiating and redifferentiating human chondrocytes in culture. <i>FEBS Letters</i> , 1989 , 258, 195-8	3.8	74
71	Expression of Sox9 and type IIA procollagen during attempted repair of articular cartilage damage in a transgenic mouse model of osteoarthritis. <i>Arthritis and Rheumatism</i> , 2001 , 44, 947-55		72
70	Human pro alpha 1(I) collagen: cDNA sequence for the C-propeptide domain. <i>Nucleic Acids Research</i> , 1988 , 16, 349	20.1	71
69	Mice with tissue inhibitor of metalloproteinases 4 (Timp4) deletion succumb to induced myocardial infarction but not to cardiac pressure overload. <i>Journal of Biological Chemistry</i> , 2010 , 285, 24487-93	5.4	68
68	Evidence for insufficient chondrocytic differentiation during repair of full-thickness defects of articular cartilage. <i>Matrix Biology</i> , 1996 , 15, 39-47	11.4	68
67	Type X collagen, a natural component of mouse articular cartilage: association with growth, aging, and osteoarthritis. <i>Arthritis and Rheumatism</i> , 1998 , 41, 1287-95		64
66	Tissue inhibitor of metalloproteinases 4 (TIMP4) is involved in inflammatory processes of human cardiovascular pathology. <i>Histochemistry and Cell Biology</i> , 2006 , 126, 335-42	2.4	64
65	Spontaneous development of synovitis and cartilage degeneration in transgenic mice overexpressing cathepsin K. <i>Arthritis and Rheumatism</i> , 2005 , 52, 3713-7		62
64	Increased type I collagen mRNA levels in cultured scleroderma fibroblasts. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1984 , 781, 183-6		59
63	Construction and partial characterization of two recombinant cDNA clones for procollagen from chicken cartilage. <i>Nucleic Acids Research</i> , 1982 , 10, 1175-92	20.1	57
62	Expression profiles of mRNAs for osteoblast and osteoclast proteins as indicators of bone loss in mouse immobilization osteopenia model. <i>Journal of Bone and Mineral Research</i> , 1999 , 14, 1934-42	6.3	56
61	Elevated pro alpha 2(I) collagen mRNA levels in cultured scleroderma fibroblasts result from an increased transcription rate of the corresponding gene. <i>FEBS Letters</i> , 1987 , 215, 331-4	3.8	54
60	Interferon-alpha and interferon-gamma reduce excessive collagen synthesis and procollagen mRNA levels of scleroderma fibroblasts in culture. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1988 , 968, 45-50	4.9	53
59	Mice with a deletion in the first intron of the Col1a1 gene develop age-dependent aortic dissection and rupture. <i>Circulation Research</i> , 2004 , 94, 83-90	15.7	52
58	Up-regulation of cartilage oligomeric matrix protein at the onset of articular cartilage degeneration in a transgenic mouse model of osteoarthritis. <i>Arthritis and Rheumatism</i> , 2000 , 43, 1742-8		52

57	Localization of osteonectin expression in human fetal skeletal tissues by in situ hybridization. <i>Calcified Tissue International</i> , 1989 , 45, 146-52	3.9	51
56	Construction of a human pro alpha 1(III) collagen cDNA clone and localization of type III collagen expression in human fetal tissues. <i>Matrix Biology</i> , 1989 , 9, 82-91		51
55	Molecular profiling of human chondrosarcomas for matrix production and cancer markers. <i>International Journal of Cancer</i> , 2002 , 100, 144-51	7.5	50
54	Accelerated up-regulation of L-Sox5, Sox6, and Sox9 by BMP-2 gene transfer during murine fracture healing. <i>Journal of Bone and Mineral Research</i> , 2001 , 16, 1837-45	6.3	49
53	Cathepsin expression during skeletal development. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999 , 1446, 35-46		49
52	Determination of the single polyadenylation site of the human pro alpha 1(II) collagen gene. <i>Nucleic Acids Research</i> , 1987 , 15, 9499-504	20.1	49
51	Altered expression of genes involved in the production and degradation of endometrial extracellular matrix in patients with unexplained infertility and recurrent miscarriages. <i>Molecular Human Reproduction</i> , 2002 , 8, 1111-6	4.4	44
50	Autoimmune recognition of cartilage collagens. <i>Annals of Medicine</i> , 1993 , 25, 251-64	1.5	39
49	Comparison on collagen gene expression in the developing chick embryo tendon and heart. Tissue and development time-dependent action of dexamethasone. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1991 , 1089, 40-6		39
48	Activation of type I collagen genes in cultured scleroderma fibroblasts. <i>Journal of Cellular Biochemistry</i> , 1985 , 28, 105-13	4.7	38
47	Analysis of aggrecan and tenascin gene expression in mouse skeletal tissues by northern and in situ hybridization using species specific cDNA probes. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1994 , 1219, 613-22		36
46	Differential turnover of cortical and trabecular bone in transgenic mice overexpressing cathepsin K. <i>Bone</i> , 2005 , 36, 854-65	4.7	35
45	Characterization of recombinant human type IX collagen. Association of alpha chains into homotrimeric and heterotrimeric molecules. <i>Journal of Biological Chemistry</i> , 1999 , 274, 22464-8	5.4	34
44	Differential expression of fibrillar collagen genes during callus formation. <i>Biochemical and Biophysical Research Communications</i> , 1987 , 142, 536-41	3.4	34
43	Abnormal craniofacial growth and early mandibular osteoarthritis in mice harbouring a mutant type II collagen transgene. <i>Journal of Anatomy</i> , 1997 , 190 (Pt 2), 201-8	2.9	31
42	Collagen synthesis in the vaginal connective tissue of patients with and without uterine prolapse. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 1987 , 24, 319-25	2.4	31
41	Growth-dependent modulation of type I collagen production and mRNA levels in cultured human skin fibroblasts. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1990 , 1049, 171-6		30
40	Temporospatial expression of tissue inhibitors of matrix metalloproteinases-1, -2 and -3 during development, growth and aging of the mouse skeleton. <i>Histochemistry and Cell Biology</i> , 2000 , 114, 157-65 ⁴		29

39	Age-dependent changes in the expression of matrix components in the mouse eye. <i>Experimental Eye Research</i> , 2001 , 72, 423-31	3.7	29
38	Molecular profiling of polycystic ovaries for markers of cell invasion and matrix turnover. <i>Fertility and Sterility</i> , 2005 , 83, 937-44	4.8	28
37	Retarded chondrogenesis in transgenic mice with a type II collagen defect results in fracture healing abnormalities. <i>Developmental Dynamics</i> , 1994 , 200, 340-9	2.9	27
36	Molecular cloning of the human alpha 2(IX) collagen cDNA and assignment of the human COL9A2 gene to chromosome 1. <i>FEBS Letters</i> , 1993 , 319, 177-80	3.8	27
35	Expression patterns of cartilage collagens and Sox9 during mouse heart development. <i>Histochemistry and Cell Biology</i> , 2003 , 120, 103-10	2.4	25
34	Cysteine proteinases in chondrosarcomas. <i>Matrix Biology</i> , 2001 , 19, 717-25	11.4	25
33	Specific hybridization probes for mouse alpha 2(IX) and alpha 1(X) collagen mRNAs. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1992 , 1130, 78-80		25
32	Effect of zoledronic acid on incorporation of a bioceramic bone graft substitute. <i>Bone</i> , 2006 , 38, 432-43	4.7	24
31	Developmental expression of a type II collagen/beta-galactosidase fusion gene in transgenic mice. <i>Developmental Dynamics</i> , 1995 , 204, 202-10	2.9	24
30	Induction of periosteal callus formation by bone morphogenetic protein-2 employing adenovirus-mediated gene delivery. <i>Matrix Biology</i> , 2001 , 20, 123-7	11.4	22
29	Overexpression of cathepsin K accelerates the resorption cycle and osteoblast differentiation in vitro. <i>Bone</i> , 2009 , 44, 717-28	4.7	21
28	The genes encoding alpha 2(IX) collagen (COL9A2) map to human chromosome 1p32.3-p33 and mouse chromosome 4. <i>Genomics</i> , 1994 , 23, 158-62	4.3	20
27	Developmental regulation of mRNA species for types II, IX and XI collagens during mouse embryogenesis. <i>Biochemical Journal</i> , 1997 , 324 (Pt 1), 209-16	3.8	19
26	Expression of the c-Ha-ras and neu oncogenes in DMBA-induced, anti-estrogen-treated rat mammary tumors. <i>International Journal of Cancer</i> , 1988 , 42, 774-9	7.5	18
25	Variability in the upstream promoter and intron sequences of the human, mouse and chick type X collagen genes. <i>Matrix Biology</i> , 1996 , 15, 415-22	11.4	17
24	Expression of type II and IX collagen isoforms during normal and pathological cartilage and eye development. <i>Histochemistry and Cell Biology</i> , 1998 , 110, 149-59	2.4	16
23	Towards genomic drug therapy with antisense oligonucleotides. <i>Annals of Medicine</i> , 1996 , 28, 511-22	1.5	16
22	Roadmap for a precision-medicine initiative in the Nordic region. <i>Nature Genetics</i> , 2019 , 51, 924-930	36.3	12

21	Effects of cortisol on glycosaminoglycans synthesized by normal and rheumatoid synovial fibroblasts in vitro. <i>Scandinavian Journal of Rheumatology</i> , 1977 , 6, 222-4	1.9	11
20	Incorporation of cortical bone allografts and autografts in rats: expression patterns of mRNAs for the TGF-betas. <i>Acta Orthopaedica</i> , 1998 , 69, 537-44		10
19	Temporospatial expression of matrix metalloproteinases and tissue inhibitors of matrix metalloproteinases in mouse antigen-induced arthritis. <i>Histochemistry and Cell Biology</i> , 2005 , 124, 535-45	2.4	10
18	Tissue distribution and phenotypic consequences of different type X collagen gene constructs in transgenic mice. <i>Annals of the New York Academy of Sciences</i> , 1996 , 785, 248-50	6.5	10
17	Cathepsin K deficiency aggravates lung injury in hyperoxia-exposed newborn mice. <i>Experimental Lung Research</i> , 2011 , 37, 408-18	2.3	9
16	Production of cartilage collagens during metaphyseal bone healing in the mouse. <i>Matrix Biology</i> , 1998 , 17, 317-20	11.4	9
15	Generation and use of transgenic mice as models of osteoarthritis. <i>Methods in Molecular Medicine</i> , 2004 , 101, 1-23		8
14	Complete genomic structure of the mouse cathepsin K gene (Ctsk) and its localization next to the Arnt gene on mouse chromosome 3. <i>Matrix Biology</i> , 1999 , 18, 155-61	11.4	8
13	Transgenic mice as models for heritable diseases. <i>Annals of Medicine</i> , 1992 , 24, 117-20	1.5	8
12	The α 1 Chain of Type XIII Collagen. <i>Annals of the New York Academy of Sciences</i> , 1990 , 580, 440-443	6.5	7
11	Arthritis-associated changes in flow cytometric characteristics of cultured synovial fibroblasts. <i>Arthritis and Rheumatism</i> , 1988 , 31, 339-47		7
10	Ultrastructural characterization of developmental and degenerative vitreo-retinal changes in the eyes of transgenic mice with a deletion mutation in type II collagen gene. <i>Current Eye Research</i> , 2002 , 24, 439-50	2.9	6
9	Characterization of plasma membranes and rough endoplasmic reticulum of synovial cells cultured from rheumatoid arthritis patients. <i>Scandinavian Journal of Rheumatology</i> , 1984 , 13, 247-56	1.9	6
8	Analysis of arthritic lesions in the Del1 mouse: a model for osteoarthritis. <i>Methods in Molecular Medicine</i> , 2007 , 136, 283-302		6
7	Gene therapy of single-gene disorders: preface to the special section. <i>Annals of Medicine</i> , 1997 , 29, 549-515	5	5
6	Effects of sodium aurothiomalate on hyaluronic acid synthesis in normal and rheumatoid synovial fibroblast cultures. <i>Scandinavian Journal of Rheumatology</i> , 1979 , 8, 173-6	1.9	5
5	Networking Biobanks Throughout Europe: The Development of BBMRI-ERIC 2017 , 137-153		5
4	Physical mapping of mouse collagen genes on chromosome 10 by high-resolution FISH. <i>Mammalian Genome</i> , 2001 , 12, 340-6	3.2	3

- 3 Growth retardation in transgenic mice harboring a type II collagen mutation. *Annals of the New York Academy of Sciences*, **1996**, 785, 328-30 6.5 3
- 2 Expression and distribution of two alternatively spliced transcripts from the chicken α (VI) collagen gene. *Journal of Cellular Biochemistry*, **1996**, 63, 207-220 4.7 2
- 1 Cloning of cDNA for rat pro α (III) collagen mRNA. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1994**, 1217, 31-40 2