

# Ruud A Bank

## List of Publications by Year in descending order

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80  
papers

7,196  
citations

66343

42  
h-index

64796

79  
g-index

83  
all docs

83  
docs citations

83  
times ranked

10275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Collagen Turnover on the Accumulation of Advanced Glycation End Products. <i>Journal of Biological Chemistry</i> , 2000, 275, 39027-39031.	3.4	767
2	Crosslinking by advanced glycation end products increases the stiffness of the collagen network in human articular cartilage: A possible mechanism through which age is a risk factor for osteoarthritis. <i>Arthritis and Rheumatism</i> , 2002, 46, 114-123.	6.7	398
3	Genetic and Pharmacological Inhibition of Galectin-3 Prevents Cardiac Remodeling by Interfering With Myocardial Fibrogenesis. <i>Circulation: Heart Failure</i> , 2013, 6, 107-117.	3.9	371
4	Signaling in Fibrosis: TGF- $\beta$ 2, WNT, and YAP/TAZ Converge. <i>Frontiers in Medicine</i> , 2015, 2, 59.	2.6	350
5	Identification of PLOD2 as Telopeptide Lysyl Hydroxylase, an Important Enzyme in Fibrosis. <i>Journal of Biological Chemistry</i> , 2003, 278, 40967-40972.	3.4	333
6	The role of collagen in determining bone mechanical properties. <i>Journal of Orthopaedic Research</i> , 2001, 19, 1021-1026.	2.3	299
7	Mechanical Properties of the Collagen Network in Human Articular Cartilage as Measured by Osmotic Stress Technique. <i>Archives of Biochemistry and Biophysics</i> , 1998, 351, 207-219.	3.0	241
8	Amino Acid Analysis by Reverse-Phase High-Performance Liquid Chromatography: Improved Derivatization and Detection Conditions with 9-Fluorenylmethyl Chloroformate. <i>Analytical Biochemistry</i> , 1996, 240, 167-176.	2.4	214
9	Trabecular microfracture and the influence of pyridinium and non-enzymatic glycation-mediated collagen cross-links. <i>Bone</i> , 2005, 37, 825-832.	2.9	206
10	Increased formation of pyridinoline cross-links due to higher telopeptide lysyl hydroxylase levels is a general fibrotic phenomenon. <i>Matrix Biology</i> , 2004, 23, 251-257.	3.6	181
11	Tailoring Fiber Diameter in Electrospun Poly( $\epsilon$ -Caprolactone) Scaffolds for Optimal Cellular Infiltration in Cardiovascular Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2009, 15, 437-444.	3.1	165
12	The Role of Collagen Cross-Links in Biomechanical Behavior of Human Aortic Heart Valve Leaflets—Relevance for Tissue Engineering. <i>Tissue Engineering</i> , 2007, 13, 1501-1511.	4.6	158
13	Distinct defects in collagen microarchitecture underlie vessel-wall failure in advanced abdominal aneurysms and aneurysms in Marfan syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 862-865.	7.1	158
14	Phenotypic and molecular characterization of Bruck syndrome (osteogenesis imperfecta with) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227</i> <i>Medical Genetics, Part A</i> , 2004, 131A, 115-120.	1.2	146
15	Cervical Softening During Pregnancy: Regulated Changes in Collagen Cross-Linking and Composition of Extracellular Matrix in the Mouse. <i>Biology of Reproduction</i> , 2011, 84, 1053-1062.	2.7	145
16	Compositional and metabolic changes in damaged cartilage are peak-stress, stress-rate, and loading-duration dependent. <i>Journal of Orthopaedic Research</i> , 1999, 17, 870-879.	2.3	143
17	Mutations in FKBP10, which result in Bruck syndrome and recessive forms of osteogenesis imperfecta, inhibit the hydroxylation of telopeptide lysines in bone collagen. <i>Human Molecular Genetics</i> , 2013, 22, 1-17.	2.9	135
18	AGEing and osteoarthritis: a different perspective. <i>Current Opinion in Rheumatology</i> , 2003, 15, 616-622.	4.3	123

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19	The type of collagen cross-link determines the reversibility of experimental skin fibrosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005, 1740, 60-67.	3.8	123
20	Molecular insights into prolyl and lysyl hydroxylation of fibrillar collagens in health and disease. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2017, 52, 74-95.	5.2	122
21	Age-related decrease in susceptibility of human articular cartilage to matrix metalloproteinase-mediated degradation: The role of advanced glycation end products. <i>Arthritis and Rheumatism</i> , 2001, 44, 2562-2571.	6.7	118
22	YAP1 Is a Driver of Myofibroblast Differentiation in Normal and Diseased Fibroblasts. <i>American Journal of Pathology</i> , 2015, 185, 3326-3337.	3.8	106
23	Collagen Type II Enhances Chondrogenesis in Adipose Tissueâ€œDerived Stem Cells by Affecting Cell Shape. <i>Tissue Engineering - Part A</i> , 2010, 16, 81-90.	3.1	98
24	Elevated formation of pyridinoline cross-links by profibrotic cytokines is associated with enhanced lysyl hydroxylase 2b levels. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005, 1741, 95-102.	3.8	92
25	Interleukin-1 $\beta$ Attenuates Myofibroblast Formation and Extracellular Matrix Production in Dermal and Lung Fibroblasts Exposed to Transforming Growth Factor- $\beta$ 1. <i>PLoS ONE</i> , 2014, 9, e91559.	2.5	89
26	New Species in the Old World: Europe as a Frontier in Biodiversity Exploration, a Test Bed for 21st Century Taxonomy. <i>PLoS ONE</i> , 2012, 7, e36881.	2.5	87
27	Pediatric Generalized Joint Hypermobility With and Without Musculoskeletal Complaints: A Localized or Systemic Disorder?. <i>Pediatrics</i> , 2003, 111, e248-e254.	2.1	86
28	Decreased Collagen Organization and Content Are Associated With Reduced Strength of Demineralized and Intact Bone in the SAMP6 Mouse. <i>Journal of Bone and Mineral Research</i> , 2005, 21, 78-88.	2.8	86
29	The European unionâ€™s 2010 target: Putting rare species in focus. <i>Biological Conservation</i> , 2007, 139, 167-185.	4.1	78
30	Macrophage phenotypes in the collagen-induced foreign body reaction in rats. <i>Acta Biomaterialia</i> , 2013, 9, 6502-6510.	8.3	75
31	Tissue-specific Changes in the Hydroxylysine Content and Cross-links of Collagens and Alterations in Fibril Morphology in Lysyl Hydroxylase 1 Knock-out Mice. <i>Journal of Biological Chemistry</i> , 2007, 282, 6588-6596.	3.4	73
32	Reproducible Long-term Disc Degeneration in a Large Animal Model. <i>Spine</i> , 2008, 33, 949-954.	2.0	69
33	The relationship between collagen scaffold cross-linking agents and neutrophils in the foreign body reaction. <i>Biomaterials</i> , 2010, 31, 9192-9201.	11.4	68
34	Disentangling mechanisms involved in collagen pyridinoline cross-linking: The immunophilin FKBP65 is critical for dimerization of lysyl hydroxylase 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7142-7147.	7.1	62
35	Endogenous Collagen Influences Differentiation of Human Multipotent Mesenchymal Stromal Cells. <i>Tissue Engineering - Part A</i> , 2010, 16, 1693-1702.	3.1	57
36	Epithelial-to-mesenchymal transition in fibrosis: Collagen type I expression is highly upregulated after EMT, but does not contribute to collagen deposition. <i>Experimental Cell Research</i> , 2013, 319, 3000-3009.	2.6	57

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37	TGF- $\beta$ induces Lysyl hydroxylase 2b in human synovial osteoarthritic fibroblasts through ALK5 signaling. <i>Cell and Tissue Research</i> , 2014, 355, 163-171.	2.9	57
38	Intermittent Straining Accelerates the Development of Tissue Properties in Engineered Heart Valve Tissue. <i>Tissue Engineering - Part A</i> , 2009, 15, 999-1008.	3.1	56
39	Rapid attachment of adipose stromal cells on resorbable polymeric scaffolds facilitates the one-step surgical procedure for cartilage and bone tissue engineering purposes. <i>Journal of Orthopaedic Research</i> , 2011, 29, 853-860.	2.3	56
40	Impaired Collagen Biosynthesis and Cross-linking in Aorta of Patients With Bicuspid Aortic Valve. <i>Journal of the American Heart Association</i> , 2013, 2, e000034.	3.7	53
41	Procollagen Lysyl Hydroxylase 2 Expression Is Regulated by an Alternative Downstream Transforming Growth Factor $\beta$ -1 Activation Mechanism. <i>Journal of Biological Chemistry</i> , 2015, 290, 28465-28476.	3.4	48
42	Collagen cross-linking mediated by lysyl hydroxylase 2: an enzymatic battlefield to combat fibrosis. <i>Essays in Biochemistry</i> , 2019, 63, 377-387.	4.7	48
43	The Role of Collagen Crosslinking in Differentiation of Human Mesenchymal Stem Cells and MC3T3-E1 Cells. <i>Tissue Engineering - Part A</i> , 2009, 15, 3857-3867.	3.1	42
44	Collagen cross-linking by adipose-derived mesenchymal stromal cells and scar-derived mesenchymal cells: Are mesenchymal stromal cells involved in scar formation?. <i>Wound Repair and Regeneration</i> , 2009, 17, 548-558.	3.0	42
45	Pyridinium Cross-Links in Bone of Patients with Osteogenesis Imperfecta: Evidence of a Normal Intrafibrillar Collagen Packing. <i>Journal of Bone and Mineral Research</i> , 2000, 15, 1330-1336.	2.8	41
46	Minoxidil exerts different inhibitory effects on gene expression of lysyl hydroxylase 1, 2, and 3: Implications for collagen cross-linking and treatment of fibrosis. <i>Matrix Biology</i> , 2005, 24, 261-270.	3.6	41
47	Pediatric Generalized Joint Hypomobility and Musculoskeletal Complaints: A New Entity? Clinical, Biochemical, and Osseal Characteristics. <i>Pediatrics</i> , 2004, 113, 714-719.	2.1	38
48	Electrophoretic characterization of posttranslational modifications of human parotid salivary $\alpha$ -amylase. <i>Electrophoresis</i> , 1991, 12, 74-79.	2.4	37
49	Preservation of the chondrocyte's pericellular matrix improves cell-induced cartilage formation. <i>Journal of Cellular Biochemistry</i> , 2010, 110, 260-271.	2.6	37
50	Molecular markers for osteoarthritis: the road ahead. <i>Current Opinion in Rheumatology</i> , 2002, 14, 585-589.	4.3	36
51	Adjacent Segment Degeneration. <i>Spine</i> , 2008, 33, 1337-1343.	2.0	36
52	Intra-uterine tissue engineering of full-thickness skin defects in a fetal sheep model. <i>Biomaterials</i> , 2010, 31, 3910-3919.	11.4	36
53	Deficiency in N-acetylgalactosamine-6-sulfate sulfatase results in collagen perturbations in cartilage of Morquio syndrome A patients. <i>Molecular Genetics and Metabolism</i> , 2009, 97, 196-201.	1.1	35
54	Molecular Changes in the Degenerated Goat Intervertebral Disc. <i>Spine</i> , 2008, 33, 1714-1721.	2.0	33

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55	MicroRNA-1 and MicroRNA-206 Improve Differentiation Potential of Human Satellite Cells: A Novel Approach for Tissue Engineering of Skeletal Muscle. <i>Tissue Engineering - Part A</i> , 2012, 18, 889-898.	3.1	29
56	The pro-fibrotic properties of transforming growth factor on human fibroblasts are counteracted by caffeic acid by inhibiting myofibroblast formation and collagen synthesis. <i>Cell and Tissue Research</i> , 2016, 363, 775-789.	2.9	29
57	Biomaterial Encapsulation Is Enhanced in the Early Stages of the Foreign Body Reaction During Conditional Macrophage Depletion in Transgenic Macrophage Fas-Induced Apoptosis Mice. <i>Tissue Engineering - Part A</i> , 2017, 23, 1078-1087.	3.1	26
58	Ascorbic acid promotes a TGF $\beta$ 1-induced myofibroblast phenotype switch. <i>Physiological Reports</i> , 2017, 5, e13324.	1.7	26
59	The $\beta$ kinase inhibitor ACP strongly attenuates TGF $\beta$ 1-induced myofibroblast formation and collagen synthesis. <i>Journal of Cellular and Molecular Medicine</i> , 2015, 19, 2780-2792.	3.6	21
60	Limiting biomaterial fibrosis. <i>Nature Materials</i> , 2019, 18, 781-781.	27.5	18
61	Human Amniotic Fluid-Derived Mesenchymal Cells from Fetuses with a Neural Tube Defect Do Not Deposit Collagen Type I Protein After TGF $\beta$ 1 Stimulation In Vitro. <i>Stem Cells and Development</i> , 2014, 23, 555-562.	2.1	17
62	Matrix and cell phenotype differences in Dupuytren's disease. <i>Fibrogenesis and Tissue Repair</i> , 2016, 9, 9.	3.4	17
63	3,4-Dihydroxy-L-Phenylalanine as a Novel Covalent Linker of Extracellular Matrix Proteins to Polyacrylamide Hydrogels with a Tunable Stiffness. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 91-101.	2.1	17
64	Predictive Value of Precision-Cut Kidney Slices as an Ex Vivo Screening Platform for Therapeutics in Human Renal Fibrosis. <i>Pharmaceutics</i> , 2020, 12, 459.	4.5	16
65	Wnt pathway in Dupuytren disease: connecting profibrotic signals. <i>Translational Research</i> , 2015, 166, 762-771.e3.	5.0	13
66	Microsphere-Based Rapamycin Delivery, Systemic Versus Local Administration in a Rat Model of Renal Ischemia/Reperfusion Injury. <i>Pharmaceutical Research</i> , 2015, 32, 3238-3247.	3.5	12
67	Inhibition of tyrosine kinase receptor signaling attenuates fibrogenesis in an ex vivo model of human renal fibrosis. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F117-F134.	2.7	12
68	Exploring organ-specific features of fibrogenesis using murine precision-cut tissue slices. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165582.	3.8	12
69	Collagen release by human hepatic stellate cells requires vitamin C and is efficiently blocked by hydroxylase inhibition. <i>FASEB Journal</i> , 2021, 35, e21219.	0.5	12
70	Glimpses into the molecular pathogenesis of Peyronie's disease. <i>Aging Male</i> , 2020, 23, 962-970.	1.9	11
71	Macromolecular Crowding as a Tool to Screen Anti-fibrotic Drugs: The Scar-in-a-Jar System Revisited. <i>Frontiers in Medicine</i> , 2020, 7, 615774.	2.6	10
72	Intestinal stenosis in Crohn's disease shows a generalized upregulation of genes involved in collagen metabolism and recognition that could serve as novel anti-fibrotic drug targets. <i>Therapeutic Advances in Gastroenterology</i> , 2020, 13, 175628482095257.	3.2	9

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73	Ultrastructural aspects of foreign body giant cells generated on different substrates. <i>Journal of Structural Biology</i> , 2016, 195, 31-40.	2.8	8
74	No Effects of Hyperosmolar Culture Medium on Tissue Regeneration by Human Degenerated Nucleus Pulposus Cells Despite Upregulation Extracellular Matrix Genes. <i>Spine</i> , 2018, 43, 307-315.	2.0	8
75	KRAB-Induced Heterochromatin Effectively Silences PLOD2 Gene Expression in Somatic Cells and Is Resilient to TGF $\beta$ 1 Activation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3634.	4.1	6
76	Keeping fibroblasts in suspense: TAZ-mediated signaling activates a context-dependent profibrotic phenotype. Focus on $\alpha$ TAZ activation drives fibroblast spheroid growth, expression of profibrotic paracrine signals, and context-dependent ECM gene expression. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C274-C276.	4.6	5
77	$\beta$ -II-spectrin and $\alpha$ -II-spectrin do not affect TGF $\beta$ 1-induced myofibroblast differentiation. <i>Cell and Tissue Research</i> , 2018, 374, 165-175.	2.9	3
78	Larger is stealthier. <i>Nature Materials</i> , 2015, 14, 558-559.	27.5	2
79	Adapting mark-recapture methods to estimating accepted species-level diversity: a case study with terrestrial Gastropoda. <i>PeerJ</i> , 0, 10, e13139.	2.0	2
80	Notes on Enidae, 6: On <i>Euchondrus pseudovularis</i> , an endemic species in Israel (Gastropoda,) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 462	1.5	1