Warren Knudson

List of Publications by Year
in descending order

55 papers	4,221 citations	172207 29 h-index	189595 50 g-index
56 all docs	56 docs citations	56 times ranked	4094 citing authors

#	Article	IF	Citations
1	Hyaluronanâ€binding proteins in development, tissue homeostasis, and disease. FASEB Journal, 1993, 7, 1233-1241.	0.2	597
2	CD44 Is the Signaling Component of the Macrophage Migration Inhibitory Factor-CD74 Receptor Complex. Immunity, 2006, 25, 595-606.	6.6	539
3	Cartilage proteoglycans. Seminars in Cell and Developmental Biology, 2001, 12, 69-78.	2.3	502
4	CD44-mediated uptake and degradation of hyaluronan. Matrix Biology, 2002, 21, 15-23.	1.5	215
5	CD44-Anchored Hyaluronan-Rich Pericellular Matrices: An Ultrastructural and Biochemical Analysis. Experimental Cell Research, 1996, 228, 216-228.	1.2	178
6	Hyaluronan and CD44. Clinical Orthopaedics and Related Research, 2004, 427, S152-S162.	0.7	145
7	Hyaluronan oligosaccharides perturb cartilage matrix homeostasis and induce chondrocytic chondrolysis. Arthritis and Rheumatism, 2000, 43, 1165.	6.7	135
8	Increased Expression of CD44 in Bovine Articular Chondrocytes by Catabolic Cellular Mediators. Journal of Biological Chemistry, 1995, 270, 27734-27741.	1.6	119
9	Antisense Inhibition of Hyaluronan Synthase-2 in Human Articular Chondrocytes Inhibits Proteoglycan Retention and Matrix Assembly. Journal of Biological Chemistry, 1999, 274, 21893-21899.	1.6	114
10	Osteogenic protein 1 stimulates cell-associated matrix assembly by normal human articular chondrocytes: Up-regulation of hyaluronan synthase, CD44, and aggrecan. Arthritis and Rheumatism, 2000, 43, 206-214.	6.7	110
11	Acylation of CD44 and Its Association with Lipid Rafts Are Required for Receptor and Hyaluronan Endocytosis. Journal of Biological Chemistry, 2006, 281, 34601-34609.	1.6	97
12	Hyaluronan Oligosaccharides Induce Matrix Metalloproteinase 13 via Transcriptional Activation of NFÎºB and p38 MAP Kinase in Articular Chondrocytes. Journal of Biological Chemistry, 2006, 281, 17952-17960.	1.6	95
13	Internalization of the Hyaluronan Receptor CD44 by Chondrocytes. Experimental Cell Research, 1999, 252, 292-302.	1.2	88
14	Stimulation of hyaluronan metabolism by interleukinâ€1Î± in human articular cartilage. Arthritis and Rheumatism, 2000, 43, 1315-1326.	6.7	88
15	A Requirement for the CD44 Cytoplasmic Domain for Hyaluronan Binding, Pericellular Matrix Assembly, and Receptor-mediated Endocytosis in COS-7 Cells. Journal of Biological Chemistry, 2002, 277, 10531-10538.	1.6	84
16	CD44 modulates Smad1 activation in the BMP-7 signaling pathway. Journal of Cell Biology, 2004, 166, 1081-1091.	2.3	72
17	Hyaluronan Oligosaccharides Inhibit Tumorigenicity of Osteosarcoma Cell Lines MG-63 and LM-8 in Vitro and in Vivo via Perturbation of Hyaluronan-Rich Pericellular Matrix of the Cells. American Journal of Pathology, 2007, 171, 274-286.	1.9	69
18	Antisense inhibition of chondrocyte CD44 expression leading to cartilage chondrolysis. Arthritis and Rheumatism, 1998, 41, 1411-1419.	6.7	64

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19	Hyaluronan and CD44: modulators of chondrocyte metabolism. Clinical Orthopaedics and Related Research, 2004, , S152-62.	0.7	62
20	Osteogenic Protein-1 inhibits matrix depletion in a hyaluronan hexasaccharide-induced model of osteoarthritis11Supported in part by NIH grants P50-AR39239, RO1-AR43384 (WK), RO1-AR39507 (CBK) and grants from the Arthritis Foundation. Osteoarthritis and Cartilage, 2004, 12, 374-382.	0.6	59
21	The pericellular hyaluronan of articular chondrocytes. Matrix Biology, 2019, 78-79, 32-46.	1.5	58
22	Hyaluronan oligosaccharide-induced activation of transcription factors in bovine articular chondrocytes. Arthritis and Rheumatism, 2005, 52, 800-809.	6.7	54
23	Mechanisms of chondrocyte adhesion to cartilage: role of Î²1-integrins, CD44, and annexin V. Journal of Orthopaedic Research, 2001, 19, 1122-1130.	1.2	48
24	Induction of CD44 and MMP Expression by Hyaluronidase Treatment of Articular Chondrocytes. Journal of Biochemistry, 2004, 135, 567-575.	0.9	43
25	G1 domain of aggrecan cointernalizes with hyaluronan via a CD44-mediated mechanism in bovine articular chondrocytes. Arthritis and Rheumatism, 2003, 48, 3431-3441.	6.7	39
26	Induction of CD44 cleavage in articular chondrocytes. Arthritis and Rheumatism, 2010, 62, 1338-1348.	6.7	37
27	Chondroprotective Effect of Kartogenin on CD44-Mediated Functions in Articular Cartilage and Chondrocytes. Cartilage, 2014, 5, 172-180.	1.4	37
28	Antisense inhibition of CD44 tailless splice variant in human articular chondrocytes promotes hyaluronan internalization. Arthritis and Rheumatism, 2001, 44, 2599-2610.	6.7	32
29	CRISPR/Cas9 knockout of HAS2 in rat chondrosarcoma chondrocytes demonstrates the requirement of hyaluronan for aggrecan retention. Matrix Biology, 2016, 56, 74-94.	1.5	31
30	Intracellular Domain Fragment of CD44 Alters CD44 Function in Chondrocytes. Journal of Biological Chemistry, 2013, 288, 25838-25850.	1.6	29
31	Differential Effects of Interleukin-1 on Hyaluronan and Proteoglycan Metabolism in Two Compartments of the Matrix Formed by Articular Chondrocytes Maintained in Alginate. Archives of Biochemistry and Biophysics, 2000, 374, 59-65.	1.4	28
32	Chondrogenic capacity and alterations in hyaluronan synthesis of cultured human osteoarthritic chondrocytes. Biochemical and Biophysical Research Communications, 2013, 435, 733-739.	1.0	28
33	The accumulation of intracellular ITEGE and DIPEN neoepitopes in bovine articular chondrocytes is mediated by CD44 internalization of hyaluronan. Arthritis and Rheumatism, 2006, 54, 443-454.	6.7	27
34	Chondroprotective effects of 4-methylumbelliferone and hyaluronan synthase-2 overexpression involve changes in chondrocyte energy metabolism. Journal of Biological Chemistry, 2019, 294, 17799-17817.	1.6	27
35	Mechanisms involved in enhancement of the expression and function of aggrecanases by hyaluronan oligosaccharides. Arthritis and Rheumatism, 2012, 64, 187-197.	6.7	26
36	Internalization of Aggrecan G1 Domain Neoepitope ITEGE in Chondrocytes Requires CD44. Journal of Biological Chemistry, 2010, 285, 36216-36224.	1.6	24

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37	Characterization of Promoter Elements of the Human HYAL-2 Gene. Journal of Biological Chemistry, 2005, 280, 26904-26912.	1.6	22
38	Hyaluronan regulates synapse formation and function in developing neural networks. Scientific Reports, 2020, 10, 16459.	1.6	22
39	CD44 and Hyaluronan Promote the Bone Morphogenetic Protein 7 Signaling Response in Murine Chondrocytes. Arthritis and Rheumatology, 2014, 66, 1547-1558.	2.9	20
40	4-Methylumbelliferone Diminishes Catabolically Activated Articular Chondrocytes and Cartilage Explants via a Mechanism Independent of Hyaluronan Inhibition. Journal of Biological Chemistry, 2016, 291, 12087-12104.	1.6	19
41	Metabolic reprogramming in chondrocytes to promote mitochondrial respiration reduces downstream features of osteoarthritis. Scientific Reports, 2021, 11, 15131.	1.6	19
42	Extracellular Processing of the Cartilage Proteoglycan Aggregate and Its Effect on CD44-mediated Internalization of Hyaluronan. Journal of Biological Chemistry, 2015, 290, 9555-9570.	1.6	17
43	Hyaluronan synthase 2 (HAS2) overexpression diminishes the procatabolic activity of chondrocytes by a mechanism independent of extracellular hyaluronan. Journal of Biological Chemistry, 2019, 294, 13562-13579.	1.6	16
44	CD44 knock-down in bovine and human chondrocytes results in release of bound HYAL2. Matrix Biology, 2015, 48, 42-54.	1.5	15
45	Hypoxia-inducible factor-2Î± induces expression of type X collagen and matrix metalloproteinases 13 in osteoarthritic meniscal cells. Inflammation Research, 2016, 65, 439-448.	1.6	15
46	The Hyaluronan Receptor: CD44. , 2004, , 83-123.		14
47	Simvastatin promotes restoration of chondrocyte morphology and phenotype. Archives of Biochemistry and Biophysics, 2019, 665, 1-11.	1.4	12
48	An update on hyaluronan and CD44 in cartilage. Current Opinion in Orthopaedics, 2004, 15, 369-375.	0.3	10
49	Inhibition of CD44 intracellular domain production suppresses bovine articular chondrocyte de-differentiation induced by excessive mechanical stress loading. Scientific Reports, 2019, 9, 14901.	1.6	8
50	Simvastatin inhibits CD44 fragmentation in chondrocytes. Archives of Biochemistry and Biophysics, 2016, 604, 1-10.	1.4	6
51	Suppression of murine osteoarthritis by 4â€methylumbelliferone. Journal of Orthopaedic Research, 2020, 38, 1122-1131.	1.2	6
52	Hyaluronanâ€chondrocyte interactions mediate cell signaling pathways. FASEB Journal, 2010, 24, 953.5.	0.2	0
53	Functional significance of CD44 and MMPâ€9 in cartilage homeostasis. FASEB Journal, 2012, 26, 906.3.	0.2	0
54	Chondrogenesis in pellet cultures using multipotent mesenchymal stromal cells derived from Cd44â^'/â^' and wildtype mice. FASEB Journal, 2013, 27, 751.3.	0.2	0

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55	Mechanisms for differential endocytosis of CD44 involved in turnover and signaling in chondrocytes. FASEB Journal, 2013, 27, 523.15.	0.2	0