

Markku Tammi

List of Publications by Year in descending order

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61
papers

4,363
citations

109321

35
h-index

133252

59
g-index

61
all docs

61
docs citations

61
times ranked

3600
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyaluronan in Peritumoral Stroma and Malignant Cells Associates with Breast Cancer Spreading and Predicts Survival. <i>American Journal of Pathology</i> , 2000, 156, 529-536.	3.8	464
2	Moderate running exercise augments glycosaminoglycans and thickness of articular cartilage in the knee joint of young beagle dogs. <i>Journal of Orthopaedic Research</i> , 1988, 6, 188-195.	2.3	269
3	Hyaluronan Enters Keratinocytes by a Novel Endocytic Route for Catabolism. <i>Journal of Biological Chemistry</i> , 2001, 276, 35111-35122.	3.4	217
4	Local stimulation of proteoglycan synthesis in articular cartilage explants by dynamic compression in vitro. <i>Journal of Orthopaedic Research</i> , 1992, 10, 610-620.	2.3	205
5	Localization of Epidermal Hyaluronic Acid Using the Hyaluronate Binding Region of Cartilage Proteoglycan as a Specific Probe. <i>Journal of Investigative Dermatology</i> , 1988, 90, 412-414.	0.7	199
6	Degradation of Newly Synthesized High Molecular Mass Hyaluronan in the Epidermal and Dermal Compartments of Human Skin in Organ Culture. <i>Journal of Investigative Dermatology</i> , 1991, 97, 126-130.	0.7	138
7	Prognostic value of hyaluronan expression in non-small-cell lung cancer: Increased stromal expression indicates unfavorable outcome in patients with adenocarcinoma. <i>International Journal of Cancer</i> , 2001, 95, 12-17.	5.1	133
8	Hyaluronan Metabolism in Skin. <i>Progress in Histochemistry and Cytochemistry</i> , 1994, 29, III-77.	5.1	132
9	Hyaluronan Synthase Induction and Hyaluronan Accumulation in Mouse Epidermis Following Skin Injury. <i>Journal of Investigative Dermatology</i> , 2005, 124, 898-905.	0.7	132
10	Hyaluronate Accumulation in Human Epidermis Treated with Retinoic Acid in Skin Organ Culture. <i>Journal of Investigative Dermatology</i> , 1989, 92, 326-332.	0.7	131
11	Hyaluronan Bound to CD44 on Keratinocytes Is Displaced by Hyaluronan Decasaccharides and Not Hexasaccharides. <i>Journal of Biological Chemistry</i> , 1998, 273, 28878-28888.	3.4	127
12	Role of UDP-N-Acetylglucosamine (GlcNAc) and O-GlcNAcylation of Hyaluronan Synthase 2 in the Control of Chondroitin Sulfate and Hyaluronan Synthesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 35544-35555.	3.4	120
13	Hyaluronan synthases (HAS1-3) in stromal and malignant cells correlate with breast cancer grade and predict patient survival. <i>Breast Cancer Research and Treatment</i> , 2014, 143, 277-286.	2.5	115
14	Increased hyaluronan content and stromal cell CD44 associate with <i>HER2</i> positivity and poor prognosis in human breast cancer. <i>International Journal of Cancer</i> , 2013, 132, 531-539.	5.1	108
15	Pericellular Hyaluronan Coat Visualized in Live Cells With a Fluorescent Probe Is Scaffolded by Plasma Membrane Protrusions. <i>Journal of Histochemistry and Cytochemistry</i> , 2008, 56, 901-910.	2.5	98
16	A rapid method for separation and assay of radiolabeled mucopolysaccharides from cell culture medium. <i>Analytical Biochemistry</i> , 1977, 81, 40-46.	2.4	96
17	Versican in epithelial ovarian cancer: Relation to hyaluronan, clinicopathologic factors and prognosis. <i>International Journal of Cancer</i> , 2003, 107, 359-364.	5.1	92
18	The dynamic metabolism of hyaluronan regulates the cytosolic concentration of UDP-GlcNAc. <i>Matrix Biology</i> , 2014, 35, 14-17.	3.6	87

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19	Elevated hyaluronan concentration without hyaluronidase activation in malignant epithelial ovarian tumors. <i>Cancer Research</i> , 2002, 62, 6410-3.	0.9	86
20	Proteoglycan alterations following immobilization and remobilization in the articular cartilage of young canine knee (stifle) joint. <i>Journal of Orthopaedic Research</i> , 1990, 8, 863-873.	2.3	74
21	Articular cartilage thickness and glycosaminoglycan distribution in the young canine knee joint after remobilization of the immobilized limb. <i>Journal of Orthopaedic Research</i> , 1994, 12, 161-167.	2.3	72
22	Genetic alterations in the peritumoral stromal cells of malignant and borderline epithelial ovarian tumors as indicated by allelic imbalance on chromosome 3p. <i>International Journal of Cancer</i> , 2004, 109, 247-252.	5.1	72
23	The Hyaluronan Synthesis Inhibitor 4-Methylumbelliferone Prevents Keratinocyte Activation and Epidermal Hyperproliferation Induced by Epidermal Growth Factor. <i>Journal of Investigative Dermatology</i> , 2004, 123, 708-714.	0.7	70
24	Proteoglycan Alterations in Rabbit Knee Articular Cartilage Following Physical Exercise and Immobilization. <i>Connective Tissue Research</i> , 1983, 11, 45-55.	2.3	68
25	Vitamin A enhances differentiation of a continuous keratinocyte cell line (REK) into epidermis with normal stratum corneum ultrastructure and functional permeability barrier. <i>Histochemistry and Cell Biology</i> , 2001, 116, 287-297.	1.7	66
26	Tissue distribution and subcellular localization of hyaluronan synthase isoenzymes. <i>Histochemistry and Cell Biology</i> , 2014, 141, 17-31.	1.7	63
27	Irregular expression of hyaluronan and its CD44 receptor is associated with metastatic phenotype in laryngeal squamous cell carcinoma. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 1999, 434, 37-44.	2.8	59
28	Spatial distribution of CD44 and hyaluronan in the proximal tibia of the growing rat. <i>Journal of Orthopaedic Research</i> , 1996, 14, 573-581.	2.3	54
29	Hyaluronan in the Interphotoreceptor Matrix of the Eye: Species Differences in Content, Distribution, Ligand Binding and degradation. <i>Experimental Eye Research</i> , 1998, 66, 241-248.	2.6	48
30	Hydrocortisone regulation of hyaluronan metabolism in human skin organ culture. <i>Journal of Cellular Physiology</i> , 1995, 164, 240-248.	4.1	46
31	UDP-sugar substrates of HAS3 regulate its O-GlcNAcylation, intracellular traffic, extracellular shedding and correlate with melanoma progression. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3183-3204.	5.4	45
32	Influence of retinoic acid on the ultrastructure and hyaluronic acid synthesis of adult human epidermis in whole skin organ culture. <i>Journal of Cellular Physiology</i> , 1986, 126, 389-398.	4.1	44
33	Proteoglycan and Collagen Alterations in Canine Knee Articular Cartilage Following 20 KM Daily Running Exercise for 15 Weeks. <i>Connective Tissue Research</i> , 1994, 30, 191-201.	2.3	42
34	Low Dose Ultraviolet B Irradiation Increases Hyaluronan Synthesis in Epidermal Keratinocytes via Sequential Induction of Hyaluronan Synthases Has1â€³ Mediated by p38 and Ca2+/Calmodulin-dependent Protein Kinase II (CaMKII) Signaling*. <i>Journal of Biological Chemistry</i> , 2013, 288, 17999-18012.	3.4	42
35	Quantitative image analysis of hyaluronan expression in human tooth germs. <i>European Journal of Oral Sciences</i> , 2000, 108, 320-326.	1.5	36
36	Time and concentration dependence of the action of cortisol on fibroblasts in vitro. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1978, 540, 117-126.	2.4	35

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37	Developmentally Programmed Expression of Hyaluronan in Human Skin and its Appendages. <i>Journal of Investigative Dermatology</i> , 1997, 109, 219-224.	0.7	33
38	Hyaluronan in Breast Cancer: Correlations With Nitric Oxide Synthases and Tyrosine Nitrosylation. <i>Journal of Histochemistry and Cytochemistry</i> , 2007, 55, 1191-1198.	2.5	33
39	Role of CD44 in the organization of keratinocyte pericellular hyaluronan. <i>Histochemistry and Cell Biology</i> , 2012, 137, 107-120.	1.7	32
40	Hyaluronan expression in differentiated thyroid carcinoma. <i>Journal of Pathology</i> , 2002, 196, 180-185.	4.5	31
41	Ultrastructural Analysis of Human Epidermal CD44 Reveals Preferential Distribution on Plasma Membrane Domains Facing the Hyaluronan-rich Matrix Pouches. <i>Journal of Histochemistry and Cytochemistry</i> , 1998, 46, 241-248.	2.5	30
42	Polyamine-dependent alterations in the structure of microfilaments, golgi apparatus, endoplasmic reticulum, and proteoglycan synthesis in BHK cells. <i>Journal of Cellular Biochemistry</i> , 1997, 66, 165-174.	2.6	29
43	Increased Th17 rather than Th1 alloimmune response is associated with cardiac allograft vasculopathy after hypothermic preservation in the rat. <i>Journal of Heart and Lung Transplantation</i> , 2010, 29, 1047-1057.	0.6	29
44	Stromal hyaluronan accumulation is associated with low immune response and poor prognosis in pancreatic cancer. <i>Scientific Reports</i> , 2021, 11, 12216.	3.3	26
45	Effects of aerobic long distance running training (up to 40 km \times 1/2 day ⁻¹) of 1-year duration on blood and endocrine parameters of female beagle dogs. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1993, 67, 321-329.	1.2	25
46	Hyaluronan synthase 3 (HAS3) overexpression downregulates MV3 melanoma cell proliferation, migration and adhesion. <i>Experimental Cell Research</i> , 2015, 337, 1-15.	2.6	25
47	CD44 Substituted with Heparan Sulfate and Endo- β -galactosidase-Sensitive Oligosaccharides: A Major Proteoglycan in Adult Human Epidermis. <i>Journal of Investigative Dermatology</i> , 1997, 109, 213-218.	0.7	24
48	Determination of unsaturated glycosaminoglycan disaccharides by spectrophotometry on thin-layer chromatographic plates. <i>Analytical Biochemistry</i> , 1984, 140, 354-359.	2.4	23
49	Melanoma cell-derived factors stimulate hyaluronan synthesis in dermal fibroblasts by upregulating HAS2 through PDGFR-PI3K-AKT and p38 signaling. <i>Histochemistry and Cell Biology</i> , 2012, 138, 895-911.	1.7	22
50	Interleukin-1 β -induced Reduction of CD44 Ser-325 Phosphorylation in Human Epidermal Keratinocytes Promotes CD44 Homomeric Complexes, Binding to Ezrin, and Extended, Monocyte-adhesive Hyaluronan Coats. <i>Journal of Biological Chemistry</i> , 2015, 290, 12379-12393.	3.4	21
51	Proteoglycans in the Intervertebral Disc of Young Dogs Following Strenuous Running Exercise. <i>Connective Tissue Research</i> , 1994, 30, 225-240.	2.3	18
52	Melanocyte Hyaluronan Coat Fragmentation Enhances the UVB-Induced TLR-4 Receptor Signaling and Expression of Proinflammatory Mediators IL6, IL8, CXCL1, and CXCL10 via ANF- β Activation. <i>Journal of Investigative Dermatology</i> , 2019, 139, 1993-2003.e4.	0.7	15
53	Increase of Decorin Content in Articular Cartilage Following Running. <i>Connective Tissue Research</i> , 1998, 37, 295-302.	2.3	14
54	Hyaluronan synthases, hyaluronan, and its CD44 receptor in tissue around loosened total hip prostheses. <i>Journal of Pathology</i> , 2001, 194, 384-390.	4.5	13

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55	The reciprocal association between mammographic breast density, hyaluronan synthesis and patient outcome. <i>Breast Cancer Research and Treatment</i> , 2015, 153, 625-634.	2.5	11
56	Hyaluronan-positive plasma membrane protrusions exist on mesothelial cells in vivo. <i>Histochemistry and Cell Biology</i> , 2016, 145, 531-544.	1.7	11
57	Proteoglycans Synthesized by Adult Human Epidermis in Whole Skin Organ Culture. <i>Journal of Investigative Dermatology</i> , 1992, 99, 623-628.	0.7	6
58	Hyaluronan synthesis supports glutamate transporter activity. <i>Journal of Neurochemistry</i> , 2019, 150, 249-263.	3.9	6
59	Prognostic value of hyaluronan expression in non-small-cell lung cancer: Increased stromal expression indicates unfavorable outcome in patients with adenocarcinoma. <i>International Journal of Cancer</i> , 2001, 95, 12-17.	5.1	1
60	INTRACELLULAR HYALURONAN IN EPIDERMAL KERATINOCYTES. , 2002, , 517-524.		0
61	HYALURONAN STIMULATES KERATINOCYTE MIGRATION AND ACTIVATES THE TRANSCRIPTION FACTOR AP-1 IN KERATINOCYTES THROUGH THE JNK PATHWAY. , 2002, , 551-556.		0