

Kristofer Rubin

List of Publications by Year in descending order

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104
papers

8,874
citations

57758

44
h-index

40979

93
g-index

104
all docs

104
docs citations

104
times ranked

8578
citing authors

#	ARTICLE	IF	CITATIONS
1	High interstitial fluid pressure is an obstacle in cancer therapy. <i>Nature Reviews Cancer</i> , 2004, 4, 806-813.	28.4	1,814
2	PDGF receptors as cancer drug targets. <i>Cancer Cell</i> , 2003, 3, 439-443.	16.8	449
3	Characterization of the antibody response in mice with type II collagen-induced arthritis, using monoclonal anti-type II collagen antibodies. <i>Arthritis and Rheumatism</i> , 1986, 29, 400-410.	6.7	382
4	Inhibition of PDGF receptor signaling in tumor stroma enhances antitumor effect of chemotherapy. <i>Cancer Research</i> , 2002, 62, 5476-84.	0.9	356
5	$\alpha 21$ Integrin-mediated collagen gel contraction is stimulated by PDGF. <i>Experimental Cell Research</i> , 1990, 186, 264-272.	2.6	260
6	T Lymphocytes in Collagen II-Induced Arthritis in Mice. <i>Scandinavian Journal of Immunology</i> , 1985, 22, 295-306.	2.7	241
7	Expression of collagen binding integrins during cardiac development and hypertrophy. <i>Circulation Research</i> , 1991, 68, 734-744.	4.5	229
8	The viability of cells grown or centrifuged in a new density gradient medium, Percoll(TM). <i>Experimental Cell Research</i> , 1977, 110, 449-457.	2.6	223
9	Substrate adhesion of rat hepatocytes: Mechanism of attachment to collagen substrates. <i>Cell</i> , 1981, 24, 463-470.	28.9	210
10	Recognition of extracellular matrix components by neonatal and adult cardiac myocytes. <i>Developmental Biology</i> , 1984, 104, 86-96.	2.0	202
11	Stimulation of beta1 integrins on fibroblasts induces PDGF independent tyrosine phosphorylation of PDGF beta-receptors. <i>Journal of Cell Biology</i> , 1996, 132, 741-752.	5.2	197
12	Homologous type II collagen induces chronic and progressive arthritis in mice. <i>Arthritis and Rheumatism</i> , 1986, 29, 106-113.	6.7	185
13	Platelet-derived growth factor beta receptor regulates interstitial fluid homeostasis through phosphatidylinositol-3' kinase signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 11410-11415.	7.1	169
14	Defective Associations between Blood Vessels and Brain Parenchyma Lead to Cerebral Hemorrhage in Mice Lacking αv Integrins. <i>Molecular and Cellular Biology</i> , 2002, 22, 7667-7677.	2.3	162
15	Type I interferon system activation and association with disease manifestations in systemic sclerosis. <i>Annals of the Rheumatic Diseases</i> , 2010, 69, 1396-1402.	0.9	154
16	Transcapillary exchange: role and importance of the interstitial fluid pressure and the extracellular matrix. <i>Cardiovascular Research</i> , 2010, 87, 211-217.	3.8	147
17	Cold-insoluble globulin mediates the adhesion of rat liver cells to plastic petri dishes. <i>Biochemical and Biophysical Research Communications</i> , 1977, 79, 726-733.	2.1	146
18	Layilin, a Novel Integral Membrane Protein, Is a Hyaluronan Receptor. <i>Molecular Biology of the Cell</i> , 2001, 12, 891-900.	2.1	129

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19	Expression of hyaluronan synthase 2 or hyaluronidase 1 differentially affect the growth rate of transplantable colon carcinoma cell tumors. <i>International Journal of Cancer</i> , 2002, 102, 212-219.	5.1	116
20	Binding of heparin and heparan sulphate to rat liver cells. <i>Biochemical and Biophysical Research Communications</i> , 1977, 74, 126-133.	2.1	115
21	Activation of microvascular pericytes in autoimmune Raynaud's phenomenon and systemic sclerosis. <i>Arthritis and Rheumatism</i> , 1999, 42, 930-941.	6.7	113
22	Specific binding of bone sialoprotein to <i>Staphylococcus aureus</i> isolated from patients with osteomyelitis. <i>FEBS Journal</i> , 1989, 184, 331-336.	0.2	109
23	Lowering of tumor interstitial fluid pressure specifically augments efficacy of chemotherapy. <i>FASEB Journal</i> , 2003, 17, 1756-1758.	0.5	106
24	STI571 enhances the therapeutic index of epothilone B by a tumor-selective increase of drug uptake. <i>Clinical Cancer Research</i> , 2003, 9, 3779-87.	7.0	105
25	Adhesion of rat hepatocytes to collagen. <i>Experimental Cell Research</i> , 1978, 117, 165-177.	2.6	100
26	Different α 21-integrin collagen receptors on rat hepatocytes and cardiac fibroblasts. <i>Experimental Cell Research</i> , 1990, 190, 254-264.	2.6	80
27	Collagen-binding proteoglycan fibromodulin can determine stroma matrix structure and fluid balance in experimental carcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13966-13971.	7.1	80
28	Structure and metabolism of rat liver heparan sulphate. <i>Biochemical Journal</i> , 1977, 164, 75-81.	3.7	79
29	In vitro biosynthesis of cold insoluble globulin (fibronectin) by mouse peritoneal macrophages. <i>FEBS Letters</i> , 1979, 105, 313-316.	2.8	79
30	Fibromodulin Interacts with Collagen Cross-linking Sites and Activates Lysyl Oxidase. <i>Journal of Biological Chemistry</i> , 2016, 291, 7951-7960.	3.4	77
31	Expression of collagen adhesion proteins and their association with the cytoskeleton in cardiac myocytes. <i>The Anatomical Record</i> , 1989, 223, 62-71.	1.8	73
32	Type I collagen synthesis in cultured human fibroblasts: Regulation by cell spreading, platelet-derived growth factor and interactions with collagen fibers. <i>Matrix Biology</i> , 1998, 16, 409-425.	3.6	70
33	Attachment of rat hepatocytes to collagen and fibronectin; A study using antibodies directed against cell surface components. <i>Biochemical and Biophysical Research Communications</i> , 1979, 91, 86-94.	2.1	69
34	Reactivity of monoclonal anti-type II collagen antibodies with cartilage and synovial tissue in rheumatoid arthritis and osteoarthritis. <i>Arthritis and Rheumatism</i> , 1986, 29, 730-738.	6.7	68
35	Increased C-telopeptide Cross-linking of Tendon Type I Collagen in Fibromodulin-deficient Mice. <i>Journal of Biological Chemistry</i> , 2014, 289, 18873-18879.	3.4	65
36	In vitro studies on adult cardiac myocytes: Attachment and biosynthesis of collagen type IV and laminin. <i>Journal of Cellular Physiology</i> , 1988, 136, 43-53.	4.1	64

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37	Signaling via Fibroblast Growth Factor Receptor-1 Is Dependent on Extracellular Matrix in Capillary Endothelial Cell Differentiation. <i>Experimental Cell Research</i> , 1999, 248, 203-213.	2.6	58
38	Control of interstitial fluid pressure: Role of [beta]-integrins. <i>Seminars in Nephrology</i> , 2001, 21, 222-230.	1.6	58
39	Inhibition of carcinoma cell-derived VEGF reduces inflammatory characteristics in xenograft carcinoma. <i>International Journal of Cancer</i> , 2006, 119, 2795-2802.	5.1	57
40	Inhibition of TGF- β 2 modulates macrophages and vessel maturation in parallel to a lowering of interstitial fluid pressure in experimental carcinoma. <i>Laboratory Investigation</i> , 2005, 85, 512-521.	3.7	54
41	Lowering of tumoral interstitial fluid pressure by prostaglandin E1 is paralleled by an increased uptake of ^{51}Cr -EDTA. , 2000, 86, 636-643.		53
42	Interference with TGF- β 1 and - β 3 in tumor stroma lowers tumor interstitial fluid pressure independently of growth in experimental carcinoma. <i>International Journal of Cancer</i> , 2002, 102, 453-462.	5.1	53
43	Impaired Regulation of Collagen Pro- α 1(I) mRNA and Change in Pattern of Collagen-Binding Integrins on Scleroderma Fibroblasts. <i>Journal of Investigative Dermatology</i> , 1993, 101, 216-221.	0.7	52
44	Purification of a bone sialoprotein-binding protein from <i>Staphylococcus aureus</i> . <i>FEBS Journal</i> , 1994, 222, 919-925.	0.2	51
45	Counterbalancing angiogenic regulatory factors control the rate of cancer progression and survival in a stage-specific manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9939-9944.	7.1	48
46	Hepatocyte adhesion to collagen. <i>Experimental Cell Research</i> , 1986, 164, 127-138.	2.6	44
47	Edema and fluid dynamics in connective tissue remodelling. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 518-523.	1.9	43
48	Analysis of Gene Expression in Fibroblasts in Response to Keratinocyte-Derived Factors In Vitro: Potential Implications for the Wound Healing Process11Table 1, Table 2 and Table 5 can be found online at http://www.blackwellpublishing.com/products/journals/suppmat/jid/jid22112/jid22112sm.htm . <i>Journal of Investigative Dermatology</i> , 2004, 122, 216-221.	0.7	42
49	Substrate adhesion of rat hepatocytes. <i>Experimental Cell Research</i> , 1981, 135, 127-135.	2.6	40
50	The cell biology of the cardiac interstitium. <i>Trends in Cardiovascular Medicine</i> , 1996, 6, 65-70.	4.9	40
51	Platelet-Derived Growth Factor BB β -Mediated Normalization of Dermal Interstitial Fluid Pressure After Mast Cell Degranulation Depends on β 3 but Not β 1 Integrins. <i>Circulation Research</i> , 2006, 98, 635-641.	4.5	38
52	Combined Anti-Angiogenic Therapy Targeting PDGF and VEGF Receptors Lowers the Interstitial Fluid Pressure in a Murine Experimental Carcinoma. <i>PLoS ONE</i> , 2009, 4, e8149.	2.5	38
53	Vitronectin in Colorectal Adenocarcinoma β Synthesis by Stromal Cells in Culture. <i>Experimental Cell Research</i> , 1994, 214, 303-312.	2.6	37
54	Platelet-Derived Growth Factor-BB Stimulates Synthesis of the Integrin β 2-Subunit in Human Diploid Fibroblasts. <i>Experimental Cell Research</i> , 1994, 215, 347-353.	2.6	37

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55	Anti- $\alpha 1$ Integrin IgG Inhibits Pulmonary Macrometastasis and the Size of Micrometastases from a Murine Mammary Carcinoma. <i>Cell Adhesion and Communication</i> , 1994, 1, 319-332.	1.7	37
56	Keratinocytes Inhibit Expression of Connective Tissue Growth Factor in Fibroblasts In Vitro by an Interleukin-1-Dependent Mechanism. <i>Journal of Investigative Dermatology</i> , 2002, 119, 449-455.	0.7	37
57	A bone sialoprotein-binding protein from <i>Staphylococcus aureus</i> : a member of the staphylococcal Sdr family. <i>Biochemical Journal</i> , 2000, 345, 611.	3.7	36
58	Modulation of growth factor responsiveness of murine mammary carcinoma cells by cell matrix interactions: Correlation of cell proliferation and spreading. <i>Journal of Cellular Physiology</i> , 1992, 152, 292-301.	4.1	33
59	Neuritogenesis on collagen substrates. Involvement of integrin-like matrix receptors in retinal fibre outgrowth on collagen. <i>International Journal of Developmental Neuroscience</i> , 1992, 10, 393-405.	1.6	32
60	Cell Interactions with Collagen Matrices <i>In Vivo</i> and <i>In Vitro</i> Depend on Phosphatidylinositol 3-Kinase and Free Cytoplasmic Calcium. <i>Cell Adhesion and Communication</i> , 1998, 5, 461-473.	1.7	32
61	Fibrin binds to collagen and provides a bridge for $\alpha 2 \beta 1$ integrin-dependent contraction of collagen gels. <i>Biochemical Journal</i> , 2014, 462, 113-123.	3.7	31
62	Recruitment of Type I Collagen Producing Cells from the Microvasculature <i>In Vitro</i> . <i>Experimental Cell Research</i> , 1996, 229, 336-349.	2.6	30
63	Integrin $\alpha 2 \beta 1$ mediates platelet-derived growth factor-BB-stimulated collagen gel contraction in cells expressing signaling deficient integrin $\alpha 2 \beta 1$. <i>Experimental Cell Research</i> , 2003, 291, 463-473.	2.6	29
64	Effect of PGE1, PGI2, and PGF2 analogs on collagen gel compaction in vitro and interstitial pressure in vivo. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 274, H663-H671.	3.2	27
65	Different cell surface glycoproteins are involved in cell-cell and cell-collagen adhesion of rat hepatocytes. <i>FEBS Letters</i> , 1980, 121, 47-50.	2.8	25
66	Fibrosis in undifferentiated (anaplastic) thyroid carcinomas: evidence for a dual action of tumour cells in collagen type I synthesis. <i>Journal of Pathology</i> , 2000, 191, 376-386.	4.5	25
67	Cytochalasin D induces edema formation and lowering of interstitial fluid pressure in rat dermis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H7-H13.	3.2	25
68	Mice Lacking NCF1 Exhibit Reduced Growth of Implanted Melanoma and Carcinoma Tumors. <i>PLoS ONE</i> , 2013, 8, e84148.	2.5	25
69	PDGF-BB enhances collagen gel contraction through a PI3K-PLC β -PKC-cofilin pathway. <i>Scientific Reports</i> , 2017, 7, 8924.	3.3	24
70	Collagen type I expression in experimental anaplastic thyroid carcinoma: Regulation and relevance for tumorigenicity. <i>International Journal of Cancer</i> , 2002, 98, 186-192.	5.1	23
71	β -Glutamyltranspeptidase-positive rat hepatocytes are protected from GSH depletion, oxidative stress and reversible alteration of collagen receptors. <i>Carcinogenesis</i> , 1990, 11, 69-73.	2.8	21
72	Immuno-PET of undifferentiated thyroid carcinoma with radioiodine-labelled antibody cMAb U36: application to antibody tumour uptake studies. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007, 34, 1376-1387.	6.4	21

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73	Common epitopes in C1q and collagen type II. <i>Molecular Immunology</i> , 1989, 26, 163-169.	2.2	20
74	Different populations of rheumatoid adherent cells mediate activation versus suppression of T lymphocyte proliferation. <i>Arthritis and Rheumatism</i> , 1985, 28, 863-872.	6.7	19
75	The endoplasmic reticulum-resident collagen chaperone Hsp47 interacts with and promotes the secretion of decorin, fibromodulin, and lumican. <i>Journal of Biological Chemistry</i> , 2018, 293, 13707-13716.	3.4	19
76	Integrin $\alpha 1 \beta 1$ is involved in the differentiation into myofibroblasts in adult reactive tissues <i>in vivo</i> . <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3449-3462.	3.6	17
77	¹⁵ O-Water PET Study of the Effect of Imatinib, a Selective Platelet-Derived Growth Factor Receptor Inhibitor, Versus Anakinra, an IL-1R Antagonist, on Water-Perfusible Tissue Fraction in Colorectal Cancer Metastases. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1144-1149.	5.0	17
78	A Secreted Collagen- and Fibronectin-binding Streptococcal Protein Modulates Cell-mediated Collagen Gel Contraction and Interstitial Fluid Pressure. <i>Journal of Biological Chemistry</i> , 2008, 283, 1234-1242.	3.4	16
79	Platelet-derived growth factor-BB modulates membrane mobility of $\beta 1$ integrins. <i>Biochemical and Biophysical Research Communications</i> , 2004, 314, 89-96.	2.1	15
80	Network Organization of Interstitial Connective Tissue Cells in the Human Endolymphatic Duct. <i>Journal of Histochemistry and Cytochemistry</i> , 2003, 51, 1491-1500.	2.5	14
81	The Tyrosine Kinase Inhibitor Imatinib Augments Extracellular Fluid Exchange and Reduces Average Collagen Fibril Diameter in Experimental Carcinoma. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 2455-2464.	4.1	14
82	Increased Fibrosis and Interstitial Fluid Pressure in Two Different Types of Syngeneic Murine Carcinoma Grown in Integrin $\beta 3$ -Subunit Deficient Mice. <i>PLoS ONE</i> , 2012, 7, e34082.	2.5	13
83	2-Methoxyestradiol Induces Apoptosis in Cultured Human Anaplastic Thyroid Carcinoma Cells. <i>Thyroid</i> , 2006, 16, 143-150.	4.5	12
84	Integrin $\alpha 2 \beta 3$ acts downstream of insulin in normalization of interstitial fluid pressure in sepsis and in cell-mediated collagen gel contraction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H555-H560.	3.2	12
85	The Streptococcal Collagen-binding Protein CNE Specifically Interferes with $\alpha 2 \beta 3$ -mediated Cellular Interactions with Triple Helical Collagen. <i>Journal of Biological Chemistry</i> , 2010, 285, 35803-35813.	3.4	11
86	Imatinib increases oxygen delivery in extracellular matrix-rich but not in matrix-poor experimental carcinoma. <i>Journal of Translational Medicine</i> , 2017, 15, 47.	4.4	10
87	A fibronectin-binding protein from <i>Streptococcus equi</i> binds collagen and modulates cell-mediated collagen gel contraction. <i>Biochemical and Biophysical Research Communications</i> , 2006, 340, 604-610.	2.1	9
88	Inhibition of integrin $\alpha 6 \beta 6$ changes fibril thickness of stromal collagen in experimental carcinomas. <i>Cell Communication and Signaling</i> , 2018, 16, 36.	6.5	9
89	Hyaluronan content in experimental carcinoma is not correlated to interstitial fluid pressure. <i>Biochemical and Biophysical Research Communications</i> , 2003, 305, 1017-1023.	2.1	8
90	An Interstitial Network of Podoplanin-Expressing Cells in the Human Endolymphatic Duct. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2006, 7, 38-47.	1.8	7

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91	Opposite effects of PDGF-BB and prostaglandin E1 on cell-motility related processes are paralleled by modifications of distinct actin-binding proteins. <i>Experimental Cell Research</i> , 2009, 315, 1745-1758.	2.6	7
92	Colon-cancer cell variants producing regressive tumors in syngeneic rats, unlike variants yielding progressive tumors, attach to interstitial collagens through integrin $\alpha 2 \beta 1$. , 1996, 65, 796-804.		6
93	Fibromodulin deficiency reduces collagen structural network but not glycosaminoglycan content in a syngeneic model of colon carcinoma. <i>PLoS ONE</i> , 2017, 12, e0182973.	2.5	6
94	Interactions of Mammalian Cells with Collagen. <i>Novartis Foundation Symposium</i> , 1984, 108, 93-116.	1.1	6
95	Normal Oral Keratinocytes and Head and Neck Squamous Carcinoma Cells Induce an Innate Response of Fibroblasts. <i>Anticancer Research</i> , 2016, 36, 2131-7.	1.1	6
96	Integrin $\alpha V \beta 3$ can substitute for collagen binding $\alpha 1 \beta 1$ integrins <i>in vivo</i> to maintain a homeostatic interstitial fluid pressure. <i>Experimental Physiology</i> , 2018, 103, 629-634.	2.0	5
97	Synovial Class II Antigen Expression and Immune Complex Formation in Rheumatoid Arthritis. <i>Acta Medica Scandinavica</i> , 1987, 221, 85-91.	0.0	4
98	Detection of staphylococcus aureus infection by enzyme-linked immunosorbent assay and immunoblotting, using high molecular weight staphylococcal proteins. <i>FEMS Microbiology Letters</i> , 1990, 64, 65-73.	1.8	3
99	Keratinocytes and head and neck squamous cell carcinoma cells regulate urokinase-type plasminogen activator and plasminogen activator inhibitor-1 in fibroblasts. <i>Anticancer Research</i> , 2013, 33, 3113-8.	1.1	3
100	Interleukin-1-mediated effects of normal oral keratinocytes and head and neck squamous carcinoma cells on extracellular matrix related gene expression in fibroblasts. <i>Oral Oncology</i> , 2012, 48, 1236-1241.	1.5	2
101	Control of Interstitial Fluid Homeostasis: Roles of Growth Factors and Integrins. , 2008, , 105-115.		2
102	Differential Gene Regulation in Fibroblasts in Co-culture with Keratinocytes and Head and Neck SCC Cells. <i>Anticancer Research</i> , 2015, 35, 3253-65.	1.1	2
103	Peritumoral TNF α administration influences tumour stroma structure and physiology independently of growth in DMBA-induced mammary tumours. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2008, 68, 602-611.	1.2	1
104	Studies on Collagen II Induced Arthritis in Mice and Rats. <i>Annals of the New York Academy of Sciences</i> , 1986, 475, 407-408.	3.8	0