Donald Gullberg

List of Publications by Year
in descending order

125 papers	7,816 citations	50276 46 h-index	53230 85 g-index
134 all docs	134 docs citations	134 times ranked	8854 citing authors

#	Article	IF	Citations
1	Integrins. Cell and Tissue Research, 2010, 339, 269-280.	2.9	1,312
2	Beta 1 integrin-dependent and -independent polymerization of fibronectin.. Journal of Cell Biology, 1996, 132, 227-238.	5.2	279
3	Î²1 Integrin-mediated collagen gel contraction is stimulated by PDGF. Experimental Cell Research, 1990, 186, 264-272.	2.6	260
4	Expression of collagen binding integrins during cardiac development and hypertrophy.. Circulation Research, 1991, 68, 734-744.	4.5	229
5	Î±11Î²1 Integrin Is a Receptor for Interstitial Collagens Involved in Cell Migration and Collagen Reorganization on Mesenchymal Nonmuscle Cells. Developmental Biology, 2001, 237, 116-129.	2.0	212
6	Presence of Laminin Î±5 Chain and Lack of Laminin Î±1 Chain during Human Muscle Development and in Muscular Dystrophies. Journal of Biological Chemistry, 1997, 272, 28590-28595.	3.4	188
7	Cancer-associated fibroblasts in desmoplastic tumors: emerging role of integrins. Seminars in Cancer Biology, 2020, 62, 166-181.	9.6	178
8	The integrinâ€“collagen connection â€“ a glue for tissue repair?. Journal of Cell Science, 2016, 129, 653-64.	2.0	170
9	Laminin Î±1-Chain Shows a Restricted Distribution in Epithelial Basement Membranes of Fetal and Adult Human Tissues. Experimental Cell Research, 2000, 257, 298-309.	2.6	165
10	cDNA Cloning and Chromosomal Localization of Human Î±11 Integrin. Journal of Biological Chemistry, 1999, 274, 25735-25742.	3.4	144
11	Î±11Î²1 Integrin Recognizes the GFOGER Sequence in Interstitial Collagens. Journal of Biological Chemistry, 2003, 278, 7270-7277.	3.4	143
12	Integrin Â11 regulates IGF2 expression in fibroblasts to enhance tumorigenicity of human non-small-cell lung cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11754-11759.	7.1	141
13	Extracellular matrix component signaling in cancer. Advanced Drug Delivery Reviews, 2016, 97, 28-40.	13.7	140
14	Integrin Î±11Î²1 regulates cancer stromal stiffness and promotes tumorigenicity and metastasis in non-small cell lung cancer. Oncogene, 2016, 35, 1899-1908.	5.9	138
15	Integrins Î±2Î²1 and Î±11Î²1 regulate the survival of mesenchymal stem cells on collagen I. Cell Death and Disease, 2011, 2, e186-e186.	6.3	134
16	Î±11Î²1 Integrin-Dependent Regulation of Periodontal Ligament Function in the Erupting Mouse Incisor. Molecular and Cellular Biology, 2007, 27, 4306-4316.	2.3	125
17	Toward understanding scarless skin wound healing and pathological scarring. F1000Research, 2019, 8, 787.	1.6	125
18	The Fibroblast Integrin Î±11Î²1 Is Induced in a Mechanosensitive Manner Involving Activin A and Regulates Myofibroblast Differentiation. Journal of Biological Chemistry, 2010, 285, 10434-10445.	3.4	116

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19	Fundamental insight into the effect of carbodiimide crosslinking on cellular recognition of collagen-based scaffolds. Acta Biomaterialia, 2017, 49, 218-234.	8.3	114
20	Integrins during evolution: Evolutionary trees and model organisms. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 779-789.	2.6	112
21	Tumor suppressor function of laminin-binding Î±-dystroglycan requires a distinct Î²3- N -acetylglucosaminyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12109-12114.	7.1	108
22	Human Corneal Epithelial Basement Membrane and Integrin Alterations in Diabetes and Diabetic Retinopathy¹. Journal of Histochemistry and Cytochemistry, 1998, 46, 1033-1041.	2.5	107
23	Interactions of primary fibroblasts and keratinocytes with extracellular matrix proteins: contribution of Î±2Î²1 integrin. Journal of Cell Science, 2006, 119, 1886-1895.	2.0	106
24	Stromal integrin Î±11 regulates PDGFRÎ² signaling and promotes breast cancer progression. Journal of Clinical Investigation, 2019, 129, 4609-4628.	8.2	102
25	Î±11 integrin stimulates myofibroblast differentiation in diabetic cardiomyopathy. Cardiovascular Research, 2012, 96, 265-275.	3.8	93
26	Collagen-binding I domain integrins â€" what do they do?. Progress in Histochemistry and Cytochemistry, 2002, 37, 3-54.	5.1	88
27	The mesenchymal Î±11Î²1 integrin attenuates PDGF-BB-stimulated chemotaxis of embryonic fibroblasts on collagens. Developmental Biology, 2004, 270, 427-442.	2.0	86
28	Î±v Integrin subunit is predominantly located in nervous tissue and skeletal muscle during mouse development. Developmental Dynamics, 1994, 201, 108-120.	1.8	81
29	Different Î²1-integrin collagen receptors on rat hepatocytes and cardiac fibroblasts. Experimental Cell Research, 1990, 190, 254-264.	2.6	80
30	Identification of the First Prokaryotic Collagen Sequence Motif That Mediates Binding to Human Collagen Receptors, Integrins Î±2Î²1 and Î±11Î²1. Journal of Biological Chemistry, 2008, 283, 36168-36175.	3.4	75
31	Expression of collagen adhesion proteins and their association with the cytoskeleton in cardiac myocytes. The Anatomical Record, 1989, 223, 62-71.	1.8	73
32	Distinct Î±7AÎ²1 and Î±7BÎ²1 integrin expression patterns during mouse development: Î±7A is restricted to skeletal muscle but Î±7B is expressed in striated muscle, vasculature, and nervous system. , 1996, 207, 355-371.		69
33	Integrins during muscle development and in muscular dystrophies. Frontiers in Bioscience - Landmark, 1998, 3, d1039-1050.	3.0	69
34	Reduced Granulation Tissue and Wound Strength in the Absence of Î±11Î²1 Integrin. Journal of Investigative Dermatology, 2015, 135, 1435-1444.	0.7	68
35	A Potential Role of R-cadherin in Striated Muscle Formation. Developmental Biology, 1997, 187, 55-70.	2.0	67
36	Physiology and pathology of collagen receptors. Acta Physiologica, 2007, 190, 179-187.	3.8	67

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37	New developments on skin fibrosis - Essential signals emanating from the extracellular matrix for the control of myofibroblasts. Matrix Biology, 2018, 68-69, 522-532.	3.6	67
38	In vitro studies on adult cardiac myocytes: Attachment and biosynthesis of collagen type IV and laminin. Journal of Cellular Physiology, 1988, 136, 43-53.	4.1	64
39	The Role of the Extracellular Matrix in Tissue Distribution of Macromolecules in Normal and Pathological Tissues: Potential Therapeutic Consequences. Microcirculation, 2008, 15, 283-296.	1.8	63
40	Role of tyrosine phosphatase SHP-1 in the mechanism of endorepellin angiostatic activity. Blood, 2009, 114, 4897-4906.	1.4	62
41	Molecular composition and function of integrin-based collagen gluesâ€"Introducing COLINBRIs. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 2533-2548.	2.4	61
42	Distribution of Laminins in the Developing Human Eye. , 2006, 47, 777.		60
43	Mapping of Potent and Specific Binding Motifs, GLOGEN and GVOGEA, for Integrin Î±1Î²1 Using Collagen Toolkits II and III. Journal of Biological Chemistry, 2012, 287, 26019-26028.	3.4	57
44	Î±11Î²1 Integrin is Induced in a Subset of Cancer-Associated Fibroblasts in Desmoplastic Tumor Stroma and Mediates In Vitro Cell Migration. Cancers, 2019, 11, 765.	3.7	56
45	Integrin subunit expression associated with epithelial-mesenchymal interactions during murine tooth development. Developmental Dynamics, 1996, 205, 104-113.	1.8	54
46	Integrin Î±11 is overexpressed by tumour stroma of head and neck squamous cell carcinoma and correlates positively with alpha smooth muscle actin expression. Journal of Oral Pathology and Medicine, 2017, 46, 267-275.	2.7	54
47	Release of Tensile Strain on Engineered Human Tendon Tissue Disturbs Cell Adhesions, Changes Matrix Architecture, and Induces an Inflammatory Phenotype. PLoS ONE, 2014, 9, e86078.	2.5	54
48	The Laminin Response in Inflammatory Bowel Disease: Protection or Malignancy?. PLoS ONE, 2014, 9, e111336.	2.5	46
49	Analysis of Fibronectin and Vitronectin Receptors on Human Fetal Skeletal Muscle Cells upon Differentiation. Experimental Cell Research, 1995, 220, 112-123.	2.6	45
50	Assembly of Laminin Polymers Is Dependent on Î²1-Integrins. Experimental Cell Research, 2001, 265, 135-144.	2.6	45
51	Hepatocyte adhesion to collagen. Experimental Cell Research, 1986, 164, 127-138.	2.6	44
52	The human Î±11 integrin promoter drives fibroblast-restricted expression in vivo and is regulated by TGF-Î²1 in a Smad- and Sp1-dependent manner. Matrix Biology, 2010, 29, 166-176.	3.6	44
53	Î±11Î²1 integrinâ€mediated MMPâ€13â€dependent collagen lattice contraction by fibroblasts: Evidence for integrinâ€coordinated collagen proteolysis. Journal of Cellular Physiology, 2013, 228, 1108-1119.	4.1	44
54	Differentiation, extracellular matrix synthesis, and integrin assembly by Drosophila embryo cells cultured on vitronectin and laminin substrates. Developmental Dynamics, 1994, 199, 116-128.	1.8	42

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55	A Role for Î±11Î²1 Integrin in the Human Periodontal Ligament. Journal of Dental Research, 2009, 88, 621-626.	5.2	41
56	Role of integrins in the periodontal ligament: organizers and facilitators. Periodontology 2000, 2013, 63, 29-47.	13.4	40
57	Binding of Laminin Î±1-Chain LG4âˆ’5 Domain to Î±-Dystroglycan Causes Tyrosine Phosphorylation of Syntrophin to Initiate Rac1 Signaling. Biochemistry, 2006, 45, 2042-2052.	2.5	38
58	Up-regulation of a novel integrin Î±-chain (Î±mt) on human fetal myotubes. Developmental Dynamics, 1995, 204, 57-65.	1.8	37
59	Posttranslational Modifications and Î²/Î³ Chain Associations of Human Laminin Î±1 and Laminin Î±5 Chains: Purification of Laminin-3 from Placenta. Experimental Cell Research, 2000, 259, 326-335.	2.6	36
60	Post-translational modifications of integrin ligands as pathogenic mechanisms in disease. Matrix Biology, 2014, 40, 5-9.	3.6	36
61	The Î±11 integrin mediates fibroblastâ€“extracellular matrixâ€“cardiomyocyte interactions in health and disease. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H96-H106.	3.2	36
62	Collagen Assembly at the Cell Surface: Dogmas Revisited. Cells, 2021, 10, 662.	4.1	36
63	Glycated Collagen Induces Î±11 Integrin Expression Through TGFâ€Î²2 and Smad3. Journal of Cellular Physiology, 2015, 230, 327-336.	4.1	34
64	Selecting the correct cellular model for assessing of the biological response of collagen-based biomaterials. Acta Biomaterialia, 2018, 65, 88-101.	8.3	33
65	Neuritogenesis on collagen substrates. Involvement of integrin-like matrix receptors in retinal fibre outgrowth on collagen. International Journal of Developmental Neuroscience, 1992, 10, 393-405.	1.6	32
66	Dwarfism in Mice Lacking Collagen-binding Integrins Î±2Î²1 and Î±11Î²1 Is Caused by Severely Diminished IGF-1 Levels. Journal of Biological Chemistry, 2012, 287, 6431-6440.	3.4	31
67	Regulation of prostate cell collagen receptors by malignant transformation. International Journal of Cancer, 2006, 118, 889-898.	5.1	28
68	Tandem Sp1/Sp3 sites together with an Ets-1 site cooperate to mediate Î±11 integrin chain expression in mesenchymal cells. Matrix Biology, 2006, 25, 118-129.	3.6	27
69	Collagen XXII binds to collagen-binding integrins via the novel motifs GLQGER and GFKGER. Biochemical Journal, 2014, 459, 217-227.	3.7	26
70	Tenascin-C expression correlates with macrophage invasion in Duchenne muscular dystrophy and in myositis. Neuromuscular Disorders, 1997, 7, 39-54.	0.6	23
71	Laminin Chains in Developing and Adult Human Myotendinous Junctions. Journal of Histochemistry and Cytochemistry, 2000, 48, 201-209.	2.5	23
72	Integrin Binding Dynamics Modulate Ligand-Specific Mechanosensing in Mammary Gland Fibroblasts. IScience, 2020, 23, 100907.	4.1	22

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73	Integrin Î±11Î²1: A Major Collagen Receptor on Fibroblastic Cells. Advances in Experimental Medicine and Biology, 2014, 819, 73-83.	1.6	22
74	Fibroblast Î±11Î²1 Integrin Regulates Tensional Homeostasis in Fibroblast/A549 Carcinoma Heterospheroids. PLoS ONE, 2014, 9, e103173.	2.5	22
75	Î³-Glutamyltranspeptidase-positive rat hepatocytes are protected from GSH depletion, oxidative stress and reversible alteration of collagen receptors. Carcinogenesis, 1990, 11, 69-73.	2.8	21
76	Conserved Neuron Promoting Activity in and Vertebrate Laminin Î±1. Journal of Biological Chemistry, 1996, 271, 18074-18081.	3.4	21
77	Fibroblast EXT1-Levels Influence Tumor Cell Proliferation and Migration in Composite Spheroids. PLoS ONE, 2012, 7, e41334.	2.5	21
78	Overexpression of integrin Î±11 induces cardiac fibrosis in mice. Acta Physiologica, 2018, 222, e12932.	3.8	21
79	The Î±11Î²1 Integrin Has a Mechanistic Role in Control of Interstitial Fluid Pressure and Edema Formation in Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1864-1870.	2.4	20
80	Integrin Î±11 cytoplasmic tail is required for FAK activation to initiate 3D cell invasion and ERK-mediated cell proliferation. Scientific Reports, 2019, 9, 15283.	3.3	20
81	Absence of laminin ?1 chain in the skeletal muscle of dystrophic dy/dy mice. , 1997, 20, 1515-1524.		19
82	Analysis of the human integrin Î±11 gene (ITGA11) and its promoter. Matrix Biology, 2002, 21, 513-523.	3.6	19
83	Î±11 Integrin in the Human Cornea: Importance in Development and Disease. , 2009, 50, 5044.		19
84	Integrin Î±11Î²1 is expressed in breast cancer stroma and associates with aggressive tumor phenotypes. Journal of Pathology: Clinical Research, 2020, 6, 69-82.	3.0	18
85	The molecules that make muscle. Nature, 2003, 424, 138-139.	27.8	17
86	Effects of divalent cations on M-cadherin expression and distribution during primary rat myogenesis in vitro. Differentiation, 1997, 61, 169-176.	1.9	16
87	Unique charge-dependent constraint on collagen recognition by integrin Î±10Î²1. Matrix Biology, 2017, 59, 80-94.	3.6	15
88	Glucocorticoids down-regulate the extracellular matrix proteins fibronectin, fibulin-1 and fibulin-2 in bone marrow stroma. European Journal of Haematology, 2001, 67, 176-184.	2.2	14
89	Integrin Î±11Î²1 is a receptor for collagen XIII. Cell and Tissue Research, 2021, 383, 1135-1153.	2.9	14
90	Laminin Î± Chains in Colon Carcinoma Cell Lines: Detection of a Truncated Laminin Î±1 mRNA in Caco-2 Cells. Experimental Cell Research, 1999, 248, 627-633.	2.6	11

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91	Membrane glycoproteins involved in hepatocyte adhesion to collagen type I*1. Experimental Cell Research, 1988, 175, 388-395.	2.6	10
92	Integrin Î±11Î²1 in tumor fibrosis: more than just another cancer-associated fibroblast biomarker?. Journal of Cell Communication and Signaling, 2022, 16, 649-660.	3.4	9
93	Integrins During Muscle Development and in Muscular Dystrophies. Fetal and Pediatric Pathology, 1998, 18, 303-327.	0.3	8
94	Editorial: Wound healing and fibrosisâ€"two sides of the same coin. Cell and Tissue Research, 2016, 365, 449-451.	2.9	8
95	Selectivity of the collagen-binding integrin inhibitors, TC-I-15 and obtustatin. Toxicology and Applied Pharmacology, 2021, 428, 115669.	2.8	8
96	Generation of a novel mouse strain with fibroblast-specific expression of Cre recombinase. Matrix Biology Plus, 2020, 8, 100045.	3.5	7
97	Shift happens â€" a paradigm shift for the role of integrins in fibrosis. Matrix Biology, 2009, 28, 383.	3.6	6
98	What Is the Fuss about Integrins and the Tumor Microenvironment?. Cancers, 2019, 11, 1296.	3.7	4
99	Integrin Î±11Î²1 and syndecan-4 dual receptor ablation attenuate cardiac hypertrophy in the pressure overloaded heart. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H1057-H1071.	3.2	4
100	Neuronal pathways leading to the kidney. Matrix Biology, 2007, 26, 407-408.	3.6	2
101	How to keep that stemmy-ness: Stem cells in the spotlight. Matrix Biology, 2008, 27, 161-162.	3.6	2
102	Establishment of a Novel dsRed NOD/Scid Mouse Strain to Investigate the Host and Tumor Cell Compartments. Cancer Investigation, 2013, 31, 221-230.	1.3	2
103	Integrins During Development. , 1997, , 253-267.		2
104	INTEGRINS DURING MUSCLE DEVELOPMENT AND IN MUSCULAR DYSTROPHIES. Fetal and Pediatric Pathology, 1998, 18, 303-327.	0.3	1
105	Importance of ECM remodeling clarified. Trends in Cell Biology, 2002, 12, 110.	7.9	1
106	Use of siRNA in Dental Tissue-Derived Cell Cultures: Integrin Knockdown in Fibroblasts. Methods in Molecular Biology, 2012, 887, 49-57.	0.9	1
107	Integrins During Muscle Development and in Muscular Dystrophies. Fetal and Pediatric Pathology, 1998, 18, 303-327.	0.7	1
108	Crossing the border â€" laminins outside the basement membrane. Trends in Cell Biology, 1999, 9, 343-344.	7.9	0

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109	Mice without bite. Trends in Cell Biology, 1999, 9, 433.	7.9	0
110	Hints for a cure in a muscular dystrophy variant. Trends in Cell Biology, 2000, 10, 516.	7.9	0
111	Designer integrins proving their value. Trends in Cell Biology, 2001, 11, 193.	7.9	0
112	Mothers with no milk. Trends in Cell Biology, 2001, 11, 239.	7.9	0
113	Yet another clue to a transmembrane link. Trends in Cell Biology, 2001, 11, 363.	7.9	0
114	Unconventional gene therapy holds promise for muscle disease. Trends in Cell Biology, 2001, 11, 461-461.	7.9	0
115	Collagen and tissue morphogenesis. Trends in Cell Biology, 2002, 12, 412.	7.9	0
116	Yet another liaison between two cell-adhesion families. Trends in Biochemical Sciences, 2002, 27, 602.	7.5	0
117	Re-Programmable Tumour Cells: Cytokines from the Immune System Assume New Roles with the Help of Stem Cells. Scandinavian Journal of Immunology, 2008, 67, 632-633.	2.7	0
118	5.1 Introduction. , 2012, , 403-405.		0
119	5.3 Cancer-associated fibroblast integrins as therapeutic targets in the tumor microenvironment. , 0, , .		0
120	Role of the Extracellular Matrix in Tumor Stroma: Barrier or Support?. , 2017, , 77-112.		0
121	Integrin alpha 11. The AFCS-nature Molecule Pages, 0, , .	0.2	0
122	Tumor-Stroma Interactions: Focus on Fibroblasts. , 2011, , 117-130.		0
123	Abstract 4320: Separate analysis of the cancer and stroma cell populations from orthotopically implanted cancer cell lines in fluorescent mice. , 2011, , .		0
124	Integrin Alpha11 (ITGA11). , 2016, , 1-8.		0
125	Integrin Alpha11 (ITGA11). , 2018, , 2645-2652.		0