

Donald Gullberg

List of Publications by Year in descending order

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125
papers

7,816
citations

50170

46
h-index

53109

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.	1.5	1,312
2	Beta 1 integrin-dependent and -independent polymerization of fibronectin.. Journal of Cell Biology, 1996, 132, 227-238.	2.3	279
3	$\alpha 1 \beta 1$ Integrin-mediated collagen gel contraction is stimulated by PDGF. Experimental Cell Research, 1990, 186, 264-272.	1.2	260
4	Expression of collagen binding integrins during cardiac development and hypertrophy.. Circulation Research, 1991, 68, 734-744.	2.0	229
5	$\alpha 1 \beta 1$ Integrin Is a Receptor for Interstitial Collagens Involved in Cell Migration and Collagen Reorganization on Mesenchymal Nonmuscle Cells. Developmental Biology, 2001, 237, 116-129.	0.9	212
6	Presence of Laminin $\alpha 5$ Chain and Lack of Laminin $\alpha 1$ Chain during Human Muscle Development and in Muscular Dystrophies. Journal of Biological Chemistry, 1997, 272, 28590-28595.	1.6	188
7	Cancer-associated fibroblasts in desmoplastic tumors: emerging role of integrins. Seminars in Cancer Biology, 2020, 62, 166-181.	4.3	178
8	The integrin-“collagen connection” a glue for tissue repair?. Journal of Cell Science, 2016, 129, 653-64.	1.2	170
9	Laminin $\alpha 1$ -Chain Shows a Restricted Distribution in Epithelial Basement Membranes of Fetal and Adult Human Tissues. Experimental Cell Research, 2000, 257, 298-309.	1.2	165
10	cDNA Cloning and Chromosomal Localization of Human $\alpha 1 \beta 1$ Integrin. Journal of Biological Chemistry, 1999, 274, 25735-25742.	1.6	144
11	$\alpha 1 \beta 1$ Integrin Recognizes the GFOGER Sequence in Interstitial Collagens. Journal of Biological Chemistry, 2003, 278, 7270-7277.	1.6	143
12	Integrin $\alpha 1 \beta 1$ 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.	3.3	141
13	Extracellular matrix component signaling in cancer. Advanced Drug Delivery Reviews, 2016, 97, 28-40.	6.6	140
14	Integrin $\alpha 1 \beta 1$ regulates cancer stromal stiffness and promotes tumorigenicity and metastasis in non-small cell lung cancer. Oncogene, 2016, 35, 1899-1908.	2.6	138
15	Integrins $\alpha 2 \beta 1$ and $\alpha 1 \beta 1$ regulate the survival of mesenchymal stem cells on collagen I. Cell Death and Disease, 2011, 2, e186-e186.	2.7	134
16	$\alpha 1 \beta 1$ Integrin-Dependent Regulation of Periodontal Ligament Function in the Erupting Mouse Incisor. Molecular and Cellular Biology, 2007, 27, 4306-4316.	1.1	125
17	Toward understanding scarless skin wound healing and pathological scarring. F1000Research, 2019, 8, 787.	0.8	125
18	The Fibroblast Integrin $\alpha 1 \beta 1$ Is Induced in a Mechanosensitive Manner Involving Activin A and Regulates Myofibroblast Differentiation. Journal of Biological Chemistry, 2010, 285, 10434-10445.	1.6	116

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19	Fundamental insight into the effect of carbodiimide crosslinking on cellular recognition of collagen-based scaffolds. <i>Acta Biomaterialia</i> , 2017, 49, 218-234.	4.1	114
20	Integrins during evolution: Evolutionary trees and model organisms. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 779-789.	1.4	112
21	Tumor suppressor function of laminin-binding α 2 β 1-integrin requires a distinct β 3-acetylglucosaminyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12109-12114.	3.3	108
22	Human Corneal Epithelial Basement Membrane and Integrin Alterations in Diabetes and Diabetic Retinopathy. <i>Journal of Histochemistry and Cytochemistry</i> , 1998, 46, 1033-1041.	1.3	107
23	Interactions of primary fibroblasts and keratinocytes with extracellular matrix proteins: contribution of α 2 β 1 integrin. <i>Journal of Cell Science</i> , 2006, 119, 1886-1895.	1.2	106
24	Stromal integrin α 11 regulates PDGFR β signaling and promotes breast cancer progression. <i>Journal of Clinical Investigation</i> , 2019, 129, 4609-4628.	3.9	102
25	α 11 integrin stimulates myofibroblast differentiation in diabetic cardiomyopathy. <i>Cardiovascular Research</i> , 2012, 96, 265-275.	1.8	93
26	Collagen-binding I domain integrins "what do they do?". <i>Progress in Histochemistry and Cytochemistry</i> , 2002, 37, 3-54.	5.1	88
27	The mesenchymal α 11 β 1 integrin attenuates PDGF-BB-stimulated chemotaxis of embryonic fibroblasts on collagens. <i>Developmental Biology</i> , 2004, 270, 427-442.	0.9	86
28	α v Integrin subunit is predominantly located in nervous tissue and skeletal muscle during mouse development. <i>Developmental Dynamics</i> , 1994, 201, 108-120.	0.8	81
29	Different β 1-integrin collagen receptors on rat hepatocytes and cardiac fibroblasts. <i>Experimental Cell Research</i> , 1990, 190, 254-264.	1.2	80
30	Identification of the First Prokaryotic Collagen Sequence Motif That Mediates Binding to Human Collagen Receptors, Integrins α 2 β 1 and α 11 β 1. <i>Journal of Biological Chemistry</i> , 2008, 283, 36168-36175.	1.6	75
31	Expression of collagen adhesion proteins and their association with the cytoskeleton in cardiac myocytes. <i>The Anatomical Record</i> , 1989, 223, 62-71.	2.3	73
32	Distinct α 7 β 1 and α 7 β 2 integrin expression patterns during mouse development: α 7A is restricted to skeletal muscle but α 7B is expressed in striated muscle, vasculature, and nervous system. , 1996, 207, 355-371.		69
33	Integrins during muscle development and in muscular dystrophies. <i>Frontiers in Bioscience - Landmark</i> , 1998, 3, d1039-1050.	3.0	69
34	Reduced Granulation Tissue and Wound Strength in the Absence of α 11 β 1 Integrin. <i>Journal of Investigative Dermatology</i> , 2015, 135, 1435-1444.	0.3	68
35	A Potential Role of R-cadherin in Striated Muscle Formation. <i>Developmental Biology</i> , 1997, 187, 55-70.	0.9	67
36	Physiology and pathology of collagen receptors. <i>Acta Physiologica</i> , 2007, 190, 179-187.	1.8	67

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37	New developments on skin fibrosis - Essential signals emanating from the extracellular matrix for the control of myofibroblasts. <i>Matrix Biology</i> , 2018, 68-69, 522-532.	1.5	67
38	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.	2.0	64
39	The Role of the Extracellular Matrix in Tissue Distribution of Macromolecules in Normal and Pathological Tissues: Potential Therapeutic Consequences. <i>Microcirculation</i> , 2008, 15, 283-296.	1.0	63
40	Role of tyrosine phosphatase SHP-1 in the mechanism of endorepellin angiostatic activity. <i>Blood</i> , 2009, 114, 4897-4906.	0.6	62
41	Molecular composition and function of integrin-based collagen gluesâ€”Introducing COLINBRIs. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2533-2548.	1.1	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 $\alpha 1 \beta 1$ Using Collagen Toolkits II and III. <i>Journal of Biological Chemistry</i> , 2012, 287, 26019-26028.	1.6	57
44	$\alpha 1 \beta 1$ Integrin is Induced in a Subset of Cancer-Associated Fibroblasts in Desmoplastic Tumor Stroma and Mediates In Vitro Cell Migration. <i>Cancers</i> , 2019, 11, 765.	1.7	56
45	Integrin subunit expression associated with epithelial-mesenchymal interactions during murine tooth development. <i>Developmental Dynamics</i> , 1996, 205, 104-113.	0.8	54
46	Integrin $\alpha 1 \beta 1$ is overexpressed by tumour stroma of head and neck squamous cell carcinoma and correlates positively with alpha smooth muscle actin expression. <i>Journal of Oral Pathology and Medicine</i> , 2017, 46, 267-275.	1.4	54
47	Release of Tensile Strain on Engineered Human Tendon Tissue Disturbs Cell Adhesions, Changes Matrix Architecture, and Induces an Inflammatory Phenotype. <i>PLoS ONE</i> , 2014, 9, e86078.	1.1	54
48	The Laminin Response in Inflammatory Bowel Disease: Protection or Malignancy?. <i>PLoS ONE</i> , 2014, 9, e111336.	1.1	46
49	Analysis of Fibronectin and Vitronectin Receptors on Human Fetal Skeletal Muscle Cells upon Differentiation. <i>Experimental Cell Research</i> , 1995, 220, 112-123.	1.2	45
50	Assembly of Laminin Polymers Is Dependent on $\beta 1$ -Integrins. <i>Experimental Cell Research</i> , 2001, 265, 135-144.	1.2	45
51	Hepatocyte adhesion to collagen. <i>Experimental Cell Research</i> , 1986, 164, 127-138.	1.2	44
52	The human $\alpha 1 \beta 1$ integrin promoter drives fibroblast-restricted expression in vivo and is regulated by TGF- $\beta 1$ in a Smad- and Sp1-dependent manner. <i>Matrix Biology</i> , 2010, 29, 166-176.	1.5	44
53	$\alpha 1 \beta 1$ integrin-mediated MMP-dependent collagen lattice contraction by fibroblasts: Evidence for integrin-coordinated collagen proteolysis. <i>Journal of Cellular Physiology</i> , 2013, 228, 1108-1119.	2.0	44
54	Differentiation, extracellular matrix synthesis, and integrin assembly by Drosophila embryo cells cultured on vitronectin and laminin substrates. <i>Developmental Dynamics</i> , 1994, 199, 116-128.	0.8	42

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55	A Role for $\alpha 11 \beta 1$ Integrin in the Human Periodontal Ligament. <i>Journal of Dental Research</i> , 2009, 88, 621-626.	2.5	41
56	Role of integrins in the periodontal ligament: organizers and facilitators. <i>Periodontology 2000</i> , 2013, 63, 29-47.	6.3	40
57	Binding of Laminin $\alpha 1$ -Chain LG4 ⁵ Domain to α -Dystroglycan Causes Tyrosine Phosphorylation of Syntrophin to Initiate Rac1 Signaling. <i>Biochemistry</i> , 2006, 45, 2042-2052.	1.2	38
58	Up-regulation of a novel integrin α -chain (α mt) on human fetal myotubes. <i>Developmental Dynamics</i> , 1995, 204, 57-65.	0.8	37
59	Posttranslational Modifications and $\alpha 2/\alpha 3$ Chain Associations of Human Laminin $\alpha 1$ and Laminin $\alpha 5$ Chains: Purification of Laminin-3 from Placenta. <i>Experimental Cell Research</i> , 2000, 259, 326-335.	1.2	36
60	Post-translational modifications of integrin ligands as pathogenic mechanisms in disease. <i>Matrix Biology</i> , 2014, 40, 5-9.	1.5	36
61	The $\alpha 11$ integrin mediates fibroblast \leftrightarrow “extracellular matrix \leftrightarrow “cardiomyocyte interactions in health and disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H96-H106.	1.5	36
62	Collagen Assembly at the Cell Surface: Dogmas Revisited. <i>Cells</i> , 2021, 10, 662.	1.8	36
63	Glycated Collagen Induces $\alpha 11$ Integrin Expression Through TGF β ² and Smad3. <i>Journal of Cellular Physiology</i> , 2015, 230, 327-336.	2.0	34
64	Selecting the correct cellular model for assessing of the biological response of collagen-based biomaterials. <i>Acta Biomaterialia</i> , 2018, 65, 88-101.	4.1	33
65	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.	0.7	32
66	Dwarfism in Mice Lacking Collagen-binding Integrins $\alpha 2 \beta 1$ and $\alpha 11 \beta 1$ Is Caused by Severely Diminished IGF-1 Levels. <i>Journal of Biological Chemistry</i> , 2012, 287, 6431-6440.	1.6	31
67	Regulation of prostate cell collagen receptors by malignant transformation. <i>International Journal of Cancer</i> , 2006, 118, 889-898.	2.3	28
68	Tandem Sp1/Sp3 sites together with an Ets-1 site cooperate to mediate $\alpha 11$ integrin chain expression in mesenchymal cells. <i>Matrix Biology</i> , 2006, 25, 118-129.	1.5	27
69	Collagen XXII binds to collagen-binding integrins via the novel motifs GLQGER and GFKGER. <i>Biochemical Journal</i> , 2014, 459, 217-227.	1.7	26
70	Tenascin-C expression correlates with macrophage invasion in Duchenne muscular dystrophy and in myositis. <i>Neuromuscular Disorders</i> , 1997, 7, 39-54.	0.3	23
71	Laminin Chains in Developing and Adult Human Myotendinous Junctions. <i>Journal of Histochemistry and Cytochemistry</i> , 2000, 48, 201-209.	1.3	23
72	Integrin Binding Dynamics Modulate Ligand-Specific Mechanosensing in Mammary Gland Fibroblasts. <i>IScience</i> , 2020, 23, 100907.	1.9	22

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73	Integrin $\alpha 11 \beta 1$: A Major Collagen Receptor on Fibroblastic Cells. <i>Advances in Experimental Medicine and Biology</i> , 2014, 819, 73-83.	0.8	22
74	Fibroblast $\alpha 11 \beta 1$ Integrin Regulates Tensional Homeostasis in Fibroblast/A549 Carcinoma Heterospheroids. <i>PLoS ONE</i> , 2014, 9, e103173.	1.1	22
75	$\beta 3$ -Glutamyltranspeptidase-positive rat hepatocytes are protected from GSH depletion, oxidative stress and reversible alteration of collagen receptors. <i>Carcinogenesis</i> , 1990, 11, 69-73.	1.3	21
76	Conserved Neuron Promoting Activity in and Vertebrate Laminin $\alpha 1$. <i>Journal of Biological Chemistry</i> , 1996, 271, 18074-18081.	1.6	21
77	Fibroblast EXT1-Levels Influence Tumor Cell Proliferation and Migration in Composite Spheroids. <i>PLoS ONE</i> , 2012, 7, e41334.	1.1	21
78	Overexpression of integrin $\alpha 11$ induces cardiac fibrosis in mice. <i>Acta Physiologica</i> , 2018, 222, e12932.	1.8	21
79	The $\alpha 11 \beta 1$ Integrin Has a Mechanistic Role in Control of Interstitial Fluid Pressure and Edema Formation in Inflammation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1864-1870.	1.1	20
80	Integrin $\alpha 11$ cytoplasmic tail is required for FAK activation to initiate 3D cell invasion and ERK-mediated cell proliferation. <i>Scientific Reports</i> , 2019, 9, 15283.	1.6	20
81	Absence of laminin $\gamma 1$ chain in the skeletal muscle of dystrophic <i>dy/dy</i> mice. , 1997, 20, 1515-1524.		19
82	Analysis of the human integrin $\alpha 11$ gene (ITGA11) and its promoter. <i>Matrix Biology</i> , 2002, 21, 513-523.	1.5	19
83	$\alpha 11$ Integrin in the Human Cornea: Importance in Development and Disease. , 2009, 50, 5044.		19
84	Integrin $\alpha 11 \beta 1$ is expressed in breast cancer stroma and associates with aggressive tumor phenotypes. <i>Journal of Pathology: Clinical Research</i> , 2020, 6, 69-82.	1.3	18
85	The molecules that make muscle. <i>Nature</i> , 2003, 424, 138-139.	13.7	17
86	Effects of divalent cations on M-cadherin expression and distribution during primary rat myogenesis in vitro. <i>Differentiation</i> , 1997, 61, 169-176.	1.0	16
87	Unique charge-dependent constraint on collagen recognition by integrin $\alpha 10 \beta 1$. <i>Matrix Biology</i> , 2017, 59, 80-94.	1.5	15
88	Glucocorticoids down-regulate the extracellular matrix proteins fibronectin, fibulin-1 and fibulin-2 in bone marrow stroma. <i>European Journal of Haematology</i> , 2001, 67, 176-184.	1.1	14
89	Integrin $\alpha 11 \beta 1$ is a receptor for collagen XIII. <i>Cell and Tissue Research</i> , 2021, 383, 1135-1153.	1.5	14
90	Laminin α Chains in Colon Carcinoma Cell Lines: Detection of a Truncated Laminin $\alpha 1$ mRNA in Caco-2 Cells. <i>Experimental Cell Research</i> , 1999, 248, 627-633.	1.2	11

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91	Membrane glycoproteins involved in hepatocyte adhesion to collagen type I*1. <i>Experimental Cell Research</i> , 1988, 175, 388-395.	1.2	10
92	Integrin $\alpha 11 \beta 21$ in tumor fibrosis: more than just another cancer-associated fibroblast biomarker?. <i>Journal of Cell Communication and Signaling</i> , 2022, 16, 649-660.	1.8	9
93	Integrins During Muscle Development and in Muscular Dystrophies. <i>Fetal and Pediatric Pathology</i> , 1998, 18, 303-327.	0.3	8
94	Editorial: Wound healing and fibrosisâ€”two sides of the same coin. <i>Cell and Tissue Research</i> , 2016, 365, 449-451.	1.5	8
95	Selectivity of the collagen-binding integrin inhibitors, TC-I-15 and obtustatin. <i>Toxicology and Applied Pharmacology</i> , 2021, 428, 115669.	1.3	8
96	Generation of a novel mouse strain with fibroblast-specific expression of Cre recombinase. <i>Matrix Biology Plus</i> , 2020, 8, 100045.	1.9	7
97	Shift happens â€” a paradigm shift for the role of integrins in fibrosis. <i>Matrix Biology</i> , 2009, 28, 383.	1.5	6
98	What Is the Fuss about Integrins and the Tumor Microenvironment?. <i>Cancers</i> , 2019, 11, 1296.	1.7	4
99	Integrin $\alpha 11 \beta 21$ and syndecan-4 dual receptor ablation attenuate cardiac hypertrophy in the pressure overloaded heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H1057-H1071.	1.5	4
100	Neuronal pathways leading to the kidney. <i>Matrix Biology</i> , 2007, 26, 407-408.	1.5	2
101	How to keep that stemmy-ness: Stem cells in the spotlight. <i>Matrix Biology</i> , 2008, 27, 161-162.	1.5	2
102	Establishment of a Novel dsRed NOD/Scid Mouse Strain to Investigate the Host and Tumor Cell Compartments. <i>Cancer Investigation</i> , 2013, 31, 221-230.	0.6	2
103	Integrins During Development. , 1997, , 253-267.		2
104	INTEGRINS DURING MUSCLE DEVELOPMENT AND IN MUSCULAR DYSTROPHIES. <i>Fetal and Pediatric Pathology</i> , 1998, 18, 303-327.	0.3	1
105	Importance of ECM remodeling clarified. <i>Trends in Cell Biology</i> , 2002, 12, 110.	3.6	1
106	Use of siRNA in Dental Tissue-Derived Cell Cultures: Integrin Knockdown in Fibroblasts. <i>Methods in Molecular Biology</i> , 2012, 887, 49-57.	0.4	1
107	Integrins During Muscle Development and in Muscular Dystrophies. <i>Fetal and Pediatric Pathology</i> , 1998, 18, 303-327.	0.4	1
108	Crossing the border â€” laminins outside the basement membrane. <i>Trends in Cell Biology</i> , 1999, 9, 343-344.	3.6	0

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109	Mice without bite. Trends in Cell Biology, 1999, 9, 433.	3.6	0
110	Hints for a cure in a muscular dystrophy variant. Trends in Cell Biology, 2000, 10, 516.	3.6	0
111	Designer integrins proving their value. Trends in Cell Biology, 2001, 11, 193.	3.6	0
112	Mothers with no milk. Trends in Cell Biology, 2001, 11, 239.	3.6	0
113	Yet another clue to a transmembrane link. Trends in Cell Biology, 2001, 11, 363.	3.6	0
114	Unconventional gene therapy holds promise for muscle disease. Trends in Cell Biology, 2001, 11, 461-461.	3.6	0
115	Collagen and tissue morphogenesis. Trends in Cell Biology, 2002, 12, 412.	3.6	0
116	Yet another liaison between two cell-adhesion families. Trends in Biochemical Sciences, 2002, 27, 602.	3.7	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.	1.3	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