

# Dean Sheppard

## List of Publications by Citations

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106  
papers

13,822  
citations

53  
h-index

117  
g-index

149  
ext. papers

15,846  
ext. citations

12.3  
avg, IF

6.4  
L-index

#	Paper	IF	Citations
106	The integrin alpha v beta 6 binds and activates latent TGF beta 1: a mechanism for regulating pulmonary inflammation and fibrosis. <i>Cell</i> , <b>1999</b> , 96, 319-28	56.2	1631
105	Alveolar epithelial cell mesenchymal transition develops in vivo during pulmonary fibrosis and is regulated by the extracellular matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 13180-5	11.5	971
104	Direct effects of interleukin-13 on epithelial cells cause airway hyperreactivity and mucus overproduction in asthma. <i>Nature Medicine</i> , <b>2002</b> , 8, 885-9	50.5	726
103	The integrin alpha(v)beta8 mediates epithelial homeostasis through MT1-MMP-dependent activation of TGF-beta1. <i>Journal of Cell Biology</i> , <b>2002</b> , 157, 493-507	7.3	579
102	Targeting of $\alpha$ integrin identifies a core molecular pathway that regulates fibrosis in several organs. <i>Nature Medicine</i> , <b>2013</b> , 19, 1617-24	50.5	553
101	TGF- $\beta$ activation and function in immunity. <i>Annual Review of Immunology</i> , <b>2014</b> , 32, 51-82	34.7	460
100	Therapy for fibrotic diseases: nearing the starting line. <i>Science Translational Medicine</i> , <b>2013</b> , 5, 167sr1	17.5	459
99	Loss of integrin alpha(v)beta8 on dendritic cells causes autoimmunity and colitis in mice. <i>Nature</i> , <b>2007</b> , 449, 361-5	50.4	410
98	Loss of integrin alpha(v)beta6-mediated TGF-beta activation causes Mmp12-dependent emphysema. <i>Nature</i> , <b>2003</b> , 422, 169-73	50.4	408
97	TGF-beta is a critical mediator of acute lung injury. <i>Journal of Clinical Investigation</i> , <b>2001</b> , 107, 1537-44	15.9	374
96	IL-17A produced by $\gamma\delta$ cells drives airway hyper-responsiveness in mice and enhances mouse and human airway smooth muscle contraction. <i>Nature Medicine</i> , <b>2012</b> , 18, 547-54	50.5	335
95	Partial inhibition of integrin alpha(v)beta6 prevents pulmonary fibrosis without exacerbating inflammation. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2008</b> , 177, 56-65	10.2	315
94	Src-mediated coupling of focal adhesion kinase to integrin alpha(v)beta5 in vascular endothelial growth factor signaling. <i>Journal of Cell Biology</i> , <b>2002</b> , 157, 149-60	7.3	296
93	Loss of synchronized retinal phagocytosis and age-related blindness in mice lacking alphavbeta5 integrin. <i>Journal of Experimental Medicine</i> , <b>2004</b> , 200, 1539-45	16.6	250
92	Ligation of protease-activated receptor 1 enhances alpha(v)beta6 integrin-dependent TGF-beta activation and promotes acute lung injury. <i>Journal of Clinical Investigation</i> , <b>2006</b> , 116, 1606-14	15.9	240
91	Calcium-activated chloride channel TMEM16A modulates mucin secretion and airway smooth muscle contraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 16354-9	11.5	235
90	Transforming growth factor beta: a central modulator of pulmonary and airway inflammation and fibrosis. <i>Proceedings of the American Thoracic Society</i> , <b>2006</b> , 3, 413-7		228

89	Cross talk among TGF- $\beta$ signaling pathways, integrins, and the extracellular matrix. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3, a005017	10.2	227
88	TGF- $\beta$ Signaling and Tissue Fibrosis. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2018</b> , 10,	10.2	209
87	Transforming growth factor-beta-dependent and -independent pathways of induction of tubulointerstitial fibrosis in beta6(-/-) mice. <i>American Journal of Pathology</i> , <b>2003</b> , 163, 1261-73	5.8	189
86	Normal development, wound healing, and adenovirus susceptibility in beta5-deficient mice. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 755-9	4.8	189
85	Squamous metaplasia amplifies pathologic epithelial-mesenchymal interactions in COPD patients. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 3551-62	15.9	182
84	The cell biology of asthma. <i>Journal of Cell Biology</i> , <b>2014</b> , 205, 621-31	7.3	178
83	The $\alpha$ 5 integrin plays a critical in vivo role in tissue fibrosis. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 288ra79	17.5	174
82	Interleukin-1beta causes acute lung injury via alphavbeta5 and alphavbeta6 integrin-dependent mechanisms. <i>Circulation Research</i> , <b>2008</b> , 102, 804-12	15.7	173
81	The human integrin alpha 8 beta 1 functions as a receptor for tenascin, fibronectin, and vitronectin. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 23196-202	5.4	173
80	IgA production requires B cell interaction with subepithelial dendritic cells in Peyer's patches. <i>Science</i> , <b>2016</b> , 352, aaf4822	33.3	168
79	Lysophosphatidic acid induces alphavbeta6 integrin-mediated TGF-beta activation via the LPA2 receptor and the small G protein G alpha(q). <i>American Journal of Pathology</i> , <b>2009</b> , 174, 1264-79	5.8	157
78	Integrin-mediated activation of latent transforming growth factor beta. <i>Cancer and Metastasis Reviews</i> , <b>2005</b> , 24, 395-402	9.6	157
77	Alphav beta6 integrin regulates renal fibrosis and inflammation in Alport mouse. <i>American Journal of Pathology</i> , <b>2007</b> , 170, 110-25	5.8	152
76	An Official American Thoracic Society Workshop Report: Use of Animal Models for the Preclinical Assessment of Potential Therapies for Pulmonary Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2017</b> , 56, 667-679	5.7	143
75	Stromal cells control the epithelial residence of DCs and memory T cells by regulated activation of TGF- $\beta$ . <i>Nature Immunology</i> , <b>2016</b> , 17, 414-21	19.1	132
74	Transforming growth factor-beta1 decreases expression of the epithelial sodium channel alphaENaC and alveolar epithelial vectorial sodium and fluid transport via an ERK1/2-dependent mechanism. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 43939-50	5.4	128
73	Integrin-mediated regulation of TGF- $\beta$ in fibrosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2013</b> , 1832, 891-6	6.9	127
72	Function-blocking integrin alphavbeta6 monoclonal antibodies: distinct ligand-mimetic and nonligand-mimetic classes. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 17875-87	5.4	118

71	Differential effects of the integrins alpha9beta1, alphavbeta3, and alphavbeta6 on cell proliferative responses to tenascin. Roles of the beta subunit extracellular and cytoplasmic domains. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 24144-50	5.4	114
70	Collagen-producing lung cell atlas identifies multiple subsets with distinct localization and relevance to fibrosis. <i>Nature Communications</i> , <b>2020</b> , 11, 1920	17.4	111
69	Integrin alphavbeta5 regulates lung vascular permeability and pulmonary endothelial barrier function. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2007</b> , 36, 377-86	5.7	108
68	Expression of $\alpha\beta$ integrin on dendritic cells regulates Th17 cell development and experimental autoimmune encephalomyelitis in mice. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 4436-44	15.9	101
67	Integrin $\alpha\beta$ -mediated TGF- $\beta$ activation by airway smooth muscle cells in asthma. <i>Journal of Immunology</i> , <b>2011</b> , 187, 6094-107	5.3	100
66	$\beta$ Smooth muscle actin is an inconsistent marker of fibroblasts responsible for force-dependent TGF $\beta$ activation or collagen production across multiple models of organ fibrosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2016</b> , 310, L824-36	5.8	95
65	Roles of alphav integrins in vascular biology and pulmonary pathology. <i>Current Opinion in Cell Biology</i> , <b>2004</b> , 16, 552-7	9	79
64	Epithelial cells utilize cortical actin/myosin to activate latent TGF- $\beta$ through integrin $\alpha\beta$ -dependent physical force. <i>Experimental Cell Research</i> , <b>2012</b> , 318, 716-22	4.2	78
63	Integrin $\alpha\beta$ critically regulates hepatic progenitor cell function and promotes ductular reaction, fibrosis, and tumorigenesis. <i>Hepatology</i> , <b>2016</b> , 63, 217-32	11.2	72
62	Expression of the human integrin beta6 subunit in alveolar type II cells and bronchiolar epithelial cells reverses lung inflammation in beta6 knockout mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>1998</b> , 19, 636-42	5.7	69
61	Pulmonary Th17 Antifungal Immunity Is Regulated by the Gut Microbiome. <i>Journal of Immunology</i> , <b>2016</b> , 197, 97-107	5.3	69
60	Excessive vascular sprouting underlies cerebral hemorrhage in mice lacking $\alpha\beta$ -TGF $\beta$ signaling in the brain. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 4489-99	6.6	67
59	Absence of integrin $\alpha\beta$ enhances vascular leak in mice by inhibiting endothelial cortical actin formation. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2012</b> , 185, 58-66	10.2	65
58	Adaptive Immune Regulation of Mammary Postnatal Organogenesis. <i>Developmental Cell</i> , <b>2015</b> , 34, 493-504	10.2	60
57	Blocking immunosuppression by human Tregs in vivo with antibodies targeting integrin $\alpha\beta$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E10161-E10168	11.5	60
56	Epithelial-mesenchymal interactions in fibrosis and repair. Transforming growth factor- $\beta$ activation by epithelial cells and fibroblasts. <i>Annals of the American Thoracic Society</i> , <b>2015</b> , 12 Suppl 1, S21-3	4.7	54
55	Innate antiviral host defense attenuates TGF- $\beta$ function through IRF3-mediated suppression of Smad signaling. <i>Molecular Cell</i> , <b>2014</b> , 56, 723-37	17.6	54
54	ADAM33 is not essential for growth and development and does not modulate allergic asthma in mice. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 6950-6	4.8	54

53	Stromal fibroblasts influence oral squamous-cell carcinoma cell interactions with tenascin-C. <i>International Journal of Cancer</i> , <b>1997</b> , 72, 369-76	7.5	53
52	The $\alpha 5 \beta 1$ integrin modulates airway hyperresponsiveness in mice by regulating intraepithelial mast cells. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 748-58	15.9	53
51	Spermidine/spermine N1-acetyltransferase specifically binds to the integrin alpha9 subunit cytoplasmic domain and enhances cell migration. <i>Journal of Cell Biology</i> , <b>2004</b> , 167, 161-70	7.3	48
50	Enteric expression of the integrin alpha(v)beta(6) is essential for nematode-induced mucosal mast cell hyperplasia and expression of the granule chymase, mouse mast cell protease-1. <i>American Journal of Pathology</i> , <b>2002</b> , 161, 771-9	5.8	46
49	Mice Lacking the Integrin 5 Subunit Have Accelerated Osteoclast Maturation and Increased Activity in the Estrogen-Deficient State. <i>Journal of Bone and Mineral Research</i> , <b>2005</b> , 20, 58-66	6.3	46
48	Pharmacologic Blockade of $\alpha 1$ Integrin Ameliorates Renal Failure and Fibrosis. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2017</b> , 28, 1998-2005	12.7	39
47	Unexpected Role for Adaptive $\gamma \delta$ T Cells in Acute Respiratory Distress Syndrome. <i>Journal of Immunology</i> , <b>2015</b> , 195, 87-95	5.3	37
46	Expression of the integrin subunit alpha 9 in the murine embryo. <i>Developmental Dynamics</i> , <b>1995</b> , 204, 421-31	2.9	36
45	Integrin $\alpha 5 \beta 1$ in airway smooth muscle suppresses exaggerated airway narrowing. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 2916-27	15.9	36
44	Small molecule inhibition of IRE1 $\alpha$ kinase/RNase has anti-fibrotic effects in the lung. <i>PLoS ONE</i> , <b>2019</b> , 14, e0209824	3.7	30
43	Expression of the alpha9beta1 integrin in human colonic epithelial cells: resurgence of the fetal phenotype in a subset of colon cancers and adenocarcinoma cell lines. <i>International Journal of Cancer</i> , <b>1998</b> , 75, 738-43	7.5	29
42	Regulated expression of the integrin $\alpha 5 \beta 1$ in the epithelium of the developing human gut and in intestinal cell lines: Relation with cell proliferation. <i>Journal of Cellular Biochemistry</i> , <b>1998</b> , 71, 536-545	4.7	26
41	Mice lacking the integrin beta5 subunit have accelerated osteoclast maturation and increased activity in the estrogen-deficient state. <i>Journal of Bone and Mineral Research</i> , <b>2005</b> , 20, 58-66	6.3	26
40	An Epithelial Integrin Regulates the Amplitude of Protective Lung Interferon Responses against Multiple Respiratory Pathogens. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005804	7.6	25
39	Targeting acid ceramidase inhibits YAP/TAZ signaling to reduce fibrosis in mice. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	25
38	Blocking TGF $\beta$ via Inhibition of the $\alpha 5 \beta 1$ Integrin: A Possible Therapy for Systemic Sclerosis Interstitial Lung Disease. <i>International Journal of Rheumatology</i> , <b>2011</b> , 2011, 208219	2	24
37	Distinct structural requirements for interaction of the integrins alpha 5 beta 1, alpha v beta 5, and alpha v beta 6 with the central cell binding domain in fibronectin. <i>Cell Adhesion and Communication</i> , <b>1996</b> , 4, 237-50		24
36	A novel peptide, PLAIEDGIELTY, for the targeting of alpha9beta1-integrins. <i>FEBS Letters</i> , <b>1998</b> , 429, 269-73		23

35	Effects of beta subunit cytoplasmic domain deletions on the recruitment of the integrin alpha v beta 6 to focal contacts. <i>Cell Adhesion and Communication</i> , <b>1994</b> , 2, 101-13		23
34	Targeting integrin $\alpha 5 \beta 1$ ameliorates severe airway hyperresponsiveness in experimental asthma. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 365-374	15.9	22
33	Broadly conserved roles of TMEM131 family proteins in intracellular collagen assembly and secretory cargo trafficking. <i>Science Advances</i> , <b>2020</b> , 6, eaay7667	14.3	21
32	Transforming growth factor- $\beta$ plays divergent roles in modulating vascular remodeling, inflammation, and pulmonary fibrosis in a murine model of scleroderma. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2017</b> , 312, L22-L31	5.8	20
31	Gli1 mesenchymal stromal cells form a pathological niche to promote airway progenitor metaplasia in the fibrotic lung. <i>Nature Cell Biology</i> , <b>2020</b> , 22, 1295-1306	23.4	20
30	Expression of the beta6 integrin subunit is associated with sites of neutrophil influx in lung epithelium. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2001</b> , 49, 41-8	3.4	19
29	Impaired $\alpha 5 \beta 1$ and TGF $\beta$ signaling lead to microglial dysmaturation and neuromotor dysfunction. <i>Journal of Experimental Medicine</i> , <b>2019</b> , 216, 900-915	16.6	18
28	Exploring -Arylsulfonyl-L-proline Scaffold as a Platform for Potent and Selective $\alpha 5 \beta 1$ Integrin Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , <b>2016</b> , 7, 902-907	4.3	17
27	Identification and molecular characterization of multiple phenotypes in integrin knockout mice. <i>Methods in Enzymology</i> , <b>2007</b> , 426, 291-305	1.7	17
26	$\alpha 5 \beta 1$ integrin serves as a novel serum tumor marker for colorectal carcinoma. <i>International Journal of Cancer</i> , <b>2019</b> , 145, 678-685	7.5	15
25	Modulation of acute lung injury by integrins. <i>Proceedings of the American Thoracic Society</i> , <b>2012</b> , 9, 126-9		14
24	Roger S. Mitchell lecture. Uses of expression microarrays in studies of pulmonary fibrosis, asthma, acute lung injury, and emphysema. <i>Chest</i> , <b>2002</b> , 121, 21S-25S	5.3	14
23	Endothelial integrins and angiogenesis: not so simple anymore. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 913-4	15.9	13
22	Critical Appraisal of the Utility and Limitations of Animal Models of Scleroderma. <i>Current Rheumatology Reports</i> , <b>2016</b> , 18, 4	4.9	10
21	Fra-2 negatively regulates postnatal alveolar septation by modulating myofibroblast function. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2017</b> , 313, L878-L888	5.8	10
20	IL-17A Recruits Rab35 to IL-17R to Mediate PKC $\delta$ Dependent Stress Fiber Formation and Airway Smooth Muscle Contractility. <i>Journal of Immunology</i> , <b>2019</b> , 202, 1540-1548	5.3	8
19	Induced hepatic stellate cell integrin, $\alpha 5 \beta 1$ , enhances cellular contractility and TGF $\beta$ activity in liver fibrosis. <i>Journal of Pathology</i> , <b>2021</b> , 253, 366-373	9.4	8
18	Integrin $\alpha 5 \beta 1$ on T cells suppresses anti-tumor immunity in multiple models and is a promising target for tumor immunotherapy. <i>Cell Reports</i> , <b>2021</b> , 36, 109309	10.6	7

17	The Epithelial Integrin $\alpha 5 \beta 1$ Is a Receptor for Foot-and-Mouth Disease Virus. <i>Journal of Virology</i> , <b>2000</b> , 74, 4949-4956	6.6	6
16	Regulatory T cells promote cancer immune-escape through integrin $\alpha 5 \beta 1$ -mediated TGF- $\beta$ activation. <i>Nature Communications</i> , <b>2021</b> , 12, 6228	17.4	6
15	Obesity alters pathology and treatment response in inflammatory disease.. <i>Nature</i> , <b>2022</b> ,	50.4	6
14	A disease-associated mutation in fibrillin-1 differentially regulates integrin-mediated cell adhesion. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 18232-18243	5.4	5
13	Arhgef12 drives IL17A-induced airway contractility and airway hyperresponsiveness in mice. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	5
12	Lack of Flvcr2 impairs brain angiogenesis without affecting the blood-brain barrier. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 4055-4068	15.9	5
11	Loss of Integrin $\alpha 5 \beta 1$ in Murine Hepatocytes Accelerates Liver Regeneration. <i>American Journal of Pathology</i> , <b>2019</b> , 189, 258-271	5.8	5
10	ROCKing pulmonary fibrosis. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 1005-6	15.9	4
9	KrasP34R and KrasT58I mutations induce distinct RASopathy phenotypes in mice. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	3
8	Integrin $\alpha 5 \beta 1$ on T cells is responsible for suppression of anti-tumor immunity in multiple syngeneic models and is a promising target for tumor immunotherapy		3
7	Integrin Receptors for Extracellular Matrix with Special Reference to Tenascin.. <i>Trends in Glycoscience and Glycotechnology</i> , <b>1995</b> , 7, 417-427	0.1	2
6	Cell division cycle 7 kinase is a negative regulator of cell-mediated collagen degradation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2018</b> , 315, L360-L370	5.8	1
5	Dual antagonists of $\beta 1 / \alpha 5$ integrin for airway hyperresponsiveness. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2020</b> , 30, 127578	2.9	1
4	Integrin $\alpha 5 \beta 1$ regulates collagen I tethering to modulate hyperresponsiveness in reactive airway disease models. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	1
3	Stromal fibroblasts influence oral squamous-cell carcinoma cell interactions with tenascin-C <b>1997</b> , 72, 369		1
2	Epithelial Adhesive Structures and Adhesion Molecule Expression		27-56
1	HMGB1 accelerates alveolar epithelial repair via an IL-1 $\beta$ -dependent activation of TGF- $\beta$ by the $\alpha 5 \beta 1$ integrin.. <i>FASEB Journal</i> , <b>2010</b> , 24, 612.13	0.9	