

# Alan Fine

## List of Publications by Citations

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77  
papers

5,377  
citations

38  
h-index

73  
g-index

96  
ext. papers

5,786  
ext. citations

6.8  
avg, IF

5.27  
L-index

#	Paper	IF	Citations
77	CD31- but Not CD31+ cardiac side population cells exhibit functional cardiomyogenic differentiation. <i>Circulation Research</i> , <b>2005</b> , 97, 52-61	15.7	441
76	Calcium stores in hippocampal synaptic boutons mediate short-term plasticity, store-operated Ca <sup>2+</sup> entry, and spontaneous transmitter release. <i>Neuron</i> , <b>2001</b> , 29, 197-208	13.9	429
75	Bone marrow-derived cells as progenitors of lung alveolar epithelium. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 5181-5188	6.6	365
74	Single synaptic events evoke NMDA receptor-mediated release of calcium from internal stores in hippocampal dendritic spines. <i>Neuron</i> , <b>1999</b> , 22, 115-24	13.9	364
73	Side population cells and Bcrp1 expression in lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2003</b> , 285, L97-104	5.8	223
72	Stimulation of collagen formation by insulin and insulin-like growth factor I in cultures of human lung fibroblasts. <i>Endocrinology</i> , <b>1989</b> , 124, 964-70	4.8	205
71	Restoration of cardiac progenitor cells after myocardial infarction by self-proliferation and selective homing of bone marrow-derived stem cells. <i>Circulation Research</i> , <b>2005</b> , 97, 1090-2	15.7	193
70	Programmed cell death contributes to postnatal lung development. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>1998</b> , 18, 786-93	5.7	158
69	NR2B-containing receptors mediate cross talk among hippocampal synapses. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 4767-77	6.6	155
68	Bleomycin initiates apoptosis of lung epithelial cells by ROS but not by Fas/FasL pathway. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2006</b> , 290, L790-L796	5.8	154
67	The prolonged life-span of alveolar macrophages. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2008</b> , 38, 380-5	5.7	148
66	Loss of adenylyl cyclase I activity disrupts patterning of mouse somatosensory cortex. <i>Nature Genetics</i> , <b>1998</b> , 19, 289-91	36.3	144
65	Akt signaling regulates side population cell phenotype via Bcrp1 translocation. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 39068-75	5.4	132
64	Optical quantal analysis reveals a presynaptic component of LTP at hippocampal Schaffer-associational synapses. <i>Neuron</i> , <b>2003</b> , 38, 797-804	13.9	124
63	Expression of long-term plasticity at individual synapses in hippocampus is graded, bidirectional, and mainly presynaptic: optical quantal analysis. <i>Neuron</i> , <b>2009</b> , 62, 242-53	13.9	119
62	Evidence that bone marrow cells do not contribute to the alveolar epithelium. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2005</b> , 33, 335-42	5.7	96
61	Isolation of an adult mouse lung mesenchymal progenitor cell population. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2007</b> , 37, 152-9	5.7	95

60	Adiponectin deficiency: a model of pulmonary hypertension associated with pulmonary vascular disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2009</b> , 297, L432-8	5.8	88
59	Adiponectin attenuates lipopolysaccharide-induced acute lung injury through suppression of endothelial cell activation. <i>Journal of Immunology</i> , <b>2012</b> , 188, 854-63	5.3	80
58	Derivation of lung mesenchymal lineages from the fetal mesothelium requires hedgehog signaling for mesothelial cell entry. <i>Development (Cambridge)</i> , <b>2013</b> , 140, 4398-406	6.6	74
57	Optical quantal analysis indicates that long-term potentiation at single hippocampal mossy fiber synapses is expressed through increased release probability, recruitment of new release sites, and activation of silent synapses. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 3618-26	6.6	70
56	Distribution and functional organization of glomeruli in the olfactory bulbs of zebrafish ( <i>Danio rerio</i> ). <i>Journal of Comparative Neurology</i> , <b>2012</b> , 520, 2317-39, Spc1	3.4	69
55	A Shh/miR-206/BDNF cascade coordinates innervation and formation of airway smooth muscle. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 15407-15	6.6	67
54	Lung stem cells. <i>Cell and Tissue Research</i> , <b>2008</b> , 331, 145-56	4.2	65
53	Translational physiology: origin and phenotype of lung side population cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2004</b> , 287, L477-83	5.8	58
52	Postsynaptic calcium transients evoked by activation of individual hippocampal mossy fiber synapses. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 2206-14	6.6	58
51	FasL promoter activation by IL-2 through SP1 and NFAT but not Egr-2 and Egr-3. <i>European Journal of Immunology</i> , <b>1999</b> , 29, 3456-65	6.1	52
50	The effect of PGE2 on the activation of quiescent lung fibroblasts. <i>Prostaglandins</i> , <b>1987</b> , 33, 903-13		52
49	Stem cell antigen-1 expression in the pulmonary vascular endothelium. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2003</b> , 284, L990-6	5.8	51
48	Structure and expression of the promoter for the R4/ALK5 human type I transforming growth factor-beta receptor: regulation by TGF-beta. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1996</b> , 1312, 243-8	4.9	51
47	State-dependent mechanisms of LTP expression revealed by optical quantal analysis. <i>Neuron</i> , <b>2006</b> , 52, 649-61	13.9	49
46	Sustained expression of alpha1-antitrypsin after transplantation of manipulated hematopoietic stem cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2008</b> , 39, 133-41	5.7	48
45	TRAIL expression in vascular smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2000</b> , 278, L1045-50	5.8	48
44	Design and mechanistic insight into ultrafast calcium indicators for monitoring intracellular calcium dynamics. <i>Scientific Reports</i> , <b>2016</b> , 6, 38276	4.9	46
43	Lung stem cells: new paradigms. <i>Experimental Hematology</i> , <b>2004</b> , 32, 340-3	3.1	44

42	Embryonic lung side population cells are hematopoietic and vascular precursors. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2005</b> , 33, 32-40	5.7	44
41	Prenatal retinoid deficiency leads to airway hyperresponsiveness in adult mice. <i>Journal of Clinical Investigation</i> , <b>2014</b> , 124, 801-11	15.9	42
40	Potential therapeutic initiatives for fibrogenic lung diseases. <i>Chest</i> , <b>1995</b> , 108, 848-55	5.3	38
39	The accumulation of type I collagen mRNAs in human embryonic lung fibroblasts stimulated by transforming growth factor-beta. <i>Connective Tissue Research</i> , <b>1990</b> , 24, 237-47	3.3	35
38	An NT4/TrkB-dependent increase in innervation links early-life allergen exposure to persistent airway hyperreactivity. <i>FASEB Journal</i> , <b>2014</b> , 28, 897-907	0.9	33
37	Stem Cells in Lung Injury and Repair. <i>American Journal of Pathology</i> , <b>2016</b> , 186, 2544-50	5.8	30
36	MMP-12 deficiency attenuates angiotensin II-induced vascular injury, M2 macrophage accumulation, and skin and heart fibrosis. <i>PLoS ONE</i> , <b>2014</b> , 9, e109763	3.7	30
35	Expression regulation and function of heparan sulfate 6-O-endosulfatases in the spermatogonial stem cell niche. <i>Glycobiology</i> , <b>2011</b> , 21, 152-61	5.8	30
34	Airway contractility in the precision-cut lung slice after cryopreservation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2014</b> , 50, 876-81	5.7	29
33	Maintenance and repair of the lung endothelium does not involve contributions from marrow-derived endothelial precursor cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2012</b> , 47, 11-9	5.7	29
32	Regulation of type I collagen production by insulin and transforming growth factor-beta in human lung fibroblasts. <i>Connective Tissue Research</i> , <b>1996</b> , 34, 53-62	3.3	29
31	Comparison of genetically encoded calcium indicators for monitoring action potentials in mammalian brain by two-photon excitation fluorescence microscopy. <i>Neurophotonics</i> , <b>2015</b> , 2, 021014	3.9	28
30	Launching invasive, first-in-human trials against Parkinson's disease: ethical considerations. <i>Movement Disorders</i> , <b>2009</b> , 24, 1893-901	7	28
29	Age-Related Dopaminergic Innervation Augments T Helper 2-Type Allergic Inflammation in the Postnatal Lung. <i>Immunity</i> , <b>2019</b> , 51, 1102-1118.e7	32.3	28
28	Airway epithelial Fas ligand expression: potential role in modulating bronchial inflammation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>1998</b> , 274, L444-9	5.8	26
27	The expression of long-term potentiation: reconciling the preists and the postivists. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 369, 20130135	5.8	25
26	Bleomycin-induced lung fibrosis in IL-4-overexpressing and knockout mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2002</b> , 283, L1110-6	5.8	24
25	Mesenchymal progenitor cell research: limitations and recommendations. <i>Proceedings of the American Thoracic Society</i> , <b>2008</b> , 5, 707-10		22

24	Retinoic acid-induced inhibition of type I collagen gene expression by human lung fibroblasts. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>1994</b> , 1219, 335-41		22
23	Experience-dependent versus experience-independent postembryonic development of distinct groups of zebrafish olfactory glomeruli. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 6905-16	6.6	17
22	Activation dynamics and signaling properties of Notch3 receptor in the developing pulmonary artery. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 22678-87	5.4	17
21	Gene expression profiling and localization of Hoechst-effluxing CD45- and CD45+ cells in the embryonic mouse lung. <i>Physiological Genomics</i> , <b>2005</b> , 23, 172-81	3.6	17
20	A new approach for the study of lung smooth muscle phenotypes and its application in a murine model of allergic airway inflammation. <i>PLoS ONE</i> , <b>2013</b> , 8, e74469	3.7	16
19	Discordant regulation of human type I collagen genes by prostaglandin E2. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1992</b> , 1135, 67-72	4.9	15
18	Stem cells in airway smooth muscle: state of the art. <i>Proceedings of the American Thoracic Society</i> , <b>2008</b> , 5, 11-4		14
17	Discordant regulation of transforming growth factor-beta receptors by prostaglandin E2. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>1995</b> , 1261, 19-24		12
16	A simple automated system for appetitive conditioning of zebrafish in their home tanks. <i>Behavioural Brain Research</i> , <b>2017</b> , 317, 444-452	3.4	11
15	Simultaneous in situ hybridization and TUNEL to identify cells undergoing apoptosis. <i>The Histochemical Journal</i> , <b>1997</b> , 29, 413-8		11
14	Retinoic acid signaling is essential for airway smooth muscle homeostasis. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	10
13	Status of retraction notices for biomedical publications associated with research misconduct. <i>Research Ethics</i> , <b>2019</b> , 15, 1-5	2.8	9
12	Quantitative three-dimensional confocal microscopy of synaptic structures in living brain tissue. <i>Microscopy Research and Technique</i> , <b>1994</b> , 29, 290-6	2.8	9
11	Marrow cells as progenitors of lung tissue. <i>Blood Cells, Molecules, and Diseases</i> , <b>2004</b> , 32, 95-6	2.1	8
10	Breathing life into the lung stem cell field. <i>Cell Stem Cell</i> , <b>2009</b> , 4, 468-9	18	6
9	Effect of insoluble extracellular matrix molecules on Fas expression in epithelial cells. <i>Journal of Cellular Physiology</i> , <b>1998</b> , 174, 285-92	7	6
8	Molecular characterization of the mouse Fas ligand promoter in airway epithelial cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>2000</b> , 1490, 291-301		5
7	Optical Quantal Analysis. <i>Frontiers in Synaptic Neuroscience</i> , <b>2019</b> , 11, 8	3.5	2

6	Transcriptional landscape of pulmonary lymphatic endothelial cells during fetal gestation. <i>PLoS ONE</i> , <b>2019</b> , 14, e0216795	3.7	2
5	Airway basal stem cells generate distinct subpopulations of PNECs. <i>Cell Reports</i> , <b>2021</b> , 35, 109011	10.6	2
4	Fevers, weight loss, and bilateral peripheral infiltrates in a young man. <i>Chest</i> , <b>1999</b> , 115, 1181-3	5.3	1
3	Data on horizontal and vertical movements of zebrafish during appetitive conditioning. <i>Data in Brief</i> , <b>2016</b> , 9, 758-763	1.2	
2	IL-1 $\beta$ regulates the mouse Fas ligand expression in corneal endothelial cells. <i>Science Bulletin</i> , <b>2007</b> , 52, 2210-2215		
1	Mesothelial Progenitors in Development, Lung Homeostasis, and Tissue Repair. <i>Pancreatic Islet Biology</i> , <b>2015</b> , 193-201	0.4	