

# Alan Fine

## List of Publications by Year in descending order

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77  
papers

6,280  
citations

70961

41  
h-index

76769

74  
g-index

96  
all docs

96  
docs citations

96  
times ranked

7290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium Stores in Hippocampal Synaptic Boutons Mediate Short-Term Plasticity, Store-Operated Ca <sup>2+</sup> Entry, and Spontaneous Transmitter Release. <i>Neuron</i> , 2001, 29, 197-208.	3.8	487
2	CD31 <sup>hi</sup> but Not CD31 <sup>+</sup> Cardiac Side Population Cells Exhibit Functional Cardiomyogenic Differentiation. <i>Circulation Research</i> , 2005, 97, 52-61.	2.0	487
3	Bone marrow-derived cells as progenitors of lung alveolar epithelium. <i>Development (Cambridge)</i> , 2001, 128, 5181-5188.	1.2	466
4	Single Synaptic Events Evoke NMDA Receptor-Mediated Release of Calcium from Internal Stores in Hippocampal Dendritic Spines. <i>Neuron</i> , 1999, 22, 115-124.	3.8	400
5	Side population cells and Bcrp1 expression in lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2003, 285, L97-L104.	1.3	247
6	Stimulation of Collagen Formation by Insulin and Insulin-Like Growth Factor I in Cultures of Human Lung Fibroblasts*. <i>Endocrinology</i> , 1989, 124, 964-970.	1.4	218
7	Restoration of Cardiac Progenitor Cells After Myocardial Infarction by Self-Proliferation and Selective Homing of Bone Marrow-Derived Stem Cells. <i>Circulation Research</i> , 2005, 97, 1090-1092.	2.0	217
8	NR2B-Containing Receptors Mediate Cross Talk among Hippocampal Synapses. <i>Journal of Neuroscience</i> , 2004, 24, 4767-4777.	1.7	179
9	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> , 2006, 290, L790-L796.	1.3	173
10	Programmed Cell Death Contributes to Postnatal Lung Development. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1998, 18, 786-793.	1.4	170
11	The Prolonged Life-Span of Alveolar Macrophages. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008, 38, 380-385.	1.4	168
12	Loss of adenylyl cyclase I activity disrupts patterning of mouse somatosensory cortex. <i>Nature Genetics</i> , 1998, 19, 289-291.	9.4	156
13	Akt Signaling Regulates Side Population Cell Phenotype via Bcrp1 Translocation. <i>Journal of Biological Chemistry</i> , 2003, 278, 39068-39075.	1.6	142
14	Optical Quantal Analysis Reveals a Presynaptic Component of LTP at Hippocampal Schaffer-Associational Synapses. <i>Neuron</i> , 2003, 38, 797-804.	3.8	141
15	Expression of Long-Term Plasticity at Individual Synapses in Hippocampus Is Graded, Bidirectional, and Mainly Presynaptic: Optical Quantal Analysis. <i>Neuron</i> , 2009, 62, 242-253.	3.8	135
16	Evidence that Bone Marrow Cells Do Not Contribute to the Alveolar Epithelium. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005, 33, 335-342.	1.4	115
17	Isolation of an Adult Mouse Lung Mesenchymal Progenitor Cell Population. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007, 37, 152-159.	1.4	107
18	Adiponectin deficiency: a model of pulmonary hypertension associated with pulmonary vascular disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 297, L432-L438.	1.3	103

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19	Adiponectin Attenuates Lipopolysaccharide-Induced Acute Lung Injury through Suppression of Endothelial Cell Activation. <i>Journal of Immunology</i> , 2012, 188, 854-863.	0.4	93
20	Derivation of lung mesenchymal lineages from the fetal mesothelium requires hedgehog signaling for mesothelial cell entry. <i>Development (Cambridge)</i> , 2013, 140, 4398-4406.	1.2	85
21	Design and mechanistic insight into ultrafast calcium indicators for monitoring intracellular calcium dynamics. <i>Scientific Reports</i> , 2016, 6, 38276.	1.6	84
22	Distribution and functional organization of glomeruli in the olfactory bulbs of zebrafish ( <i>Danio rerio</i> ). <i>Development (Cambridge)</i> , 2013, 140, 4398-4406.	0.9	81
23	Lung stem cells. <i>Cell and Tissue Research</i> , 2008, 331, 145-156.	1.5	78
24	A Shh/miR-206/BDNF Cascade Coordinates Innervation and Formation of Airway Smooth Muscle. <i>Journal of Neuroscience</i> , 2011, 31, 15407-15415.	1.7	76
25	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> , 2004, 24, 3618-3626.	1.7	73
26	Origin and phenotype of lung side population cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 287, L477-L483.	1.3	67
27	Postsynaptic Calcium Transients Evoked by Activation of Individual Hippocampal Mossy Fiber Synapses. <i>Journal of Neuroscience</i> , 2001, 21, 2206-2214.	1.7	61
28	Sustained Expression of $\alpha_1$ -Antitrypsin after Transplantation of Manipulated Hematopoietic Stem Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008, 39, 133-141.	1.4	59
29	Stem cell antigen-1 expression in the pulmonary vascular endothelium. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2003, 284, L990-L996.	1.3	56
30	The effect of PGE2 on the activation of quiescent lung fibroblasts. <i>Prostaglandins</i> , 1987, 33, 903-913.	1.2	55
31	FasL promoter activation by IL-2 through SP1 and NFAT but not Egr-2 and Egr-3. <i>European Journal of Immunology</i> , 1999, 29, 3456-3465.	1.6	55
32	TRAIL expression in vascular smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000, 278, L1045-L1050.	1.3	55
33	Prenatal retinoid deficiency leads to airway hyperresponsiveness in adult mice. <i>Journal of Clinical Investigation</i> , 2014, 124, 801-811.	3.9	55
34	Structure and expression of the promoter for the R4/ALK5 human type I transforming growth factor- $\beta$ 2 receptor: regulation by TGF- $\beta$ 2. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1996, 1312, 243-248.	1.9	53
35	State-Dependent Mechanisms of LTP Expression Revealed by Optical Quantal Analysis. <i>Neuron</i> , 2006, 52, 649-661.	3.8	53
36	Age-Related Dopaminergic Innervation Augments T Helper 2-Type Allergic Inflammation in the Postnatal Lung. <i>Immunity</i> , 2019, 51, 1102-1118.e7.	6.6	53

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37	Embryonic Lung Side Population Cells Are Hematopoietic and Vascular Precursors. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005, 33, 32-40.	1.4	52
38	Distribution and functional organization of glomeruli in the olfactory bulbs of zebrafish ( <i>Danio rerio</i> ). <i>Development</i> , 2007, 134, 107-115.	0.9	51
39	Lung stem cells: New paradigms. <i>Experimental Hematology</i> , 2004, 32, 340-343.	0.2	48
40	Potential Therapeutic Initiatives for Fibrogenic Lung Diseases. <i>Chest</i> , 1995, 108, 848-855.	0.4	45
41	Stem Cells in Lung Injury and Repair. <i>American Journal of Pathology</i> , 2016, 186, 2544-2550.	1.9	45
42	Comparison of genetically encoded calcium indicators for monitoring action potentials in mammalian brain by two-photon excitation fluorescence microscopy. <i>Neurophotonics</i> , 2015, 2, 021014.	1.7	41
43	Airway Contractility in the Precision-Cut Lung Slice after Cryopreservation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 50, 876-881.	1.4	40
44	MMP-12 Deficiency Attenuates Angiotensin II-Induced Vascular Injury, M2 Macrophage Accumulation, and Skin and Heart Fibrosis. <i>PLoS ONE</i> , 2014, 9, e109763.	1.1	39
45	An NT4/TrkB-dependent increase in innervation links early-life allergen exposure to persistent airway hyperreactivity. <i>FASEB Journal</i> , 2014, 28, 897-907.	0.2	39
46	Airway epithelial Fas ligand expression: potential role in modulating bronchial inflammation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1998, 274, L444-L449.	1.3	37
47	Launching invasive, first-in-human trials against Parkinson's disease: Ethical considerations. <i>Movement Disorders</i> , 2009, 24, 1893-1901.	2.2	37
48	The Accumulation of Type I Collagen Mrnas in Human Embryonic Lung Fibroblasts Stimulated by Transforming Growth Factor- $\beta^2$ . <i>Connective Tissue Research</i> , 1990, 24, 237-247.	1.1	36
49	Expression regulation and function of heparan sulfate 6-O-endosulfatases in the spermatogonial stem cell niche. <i>Glycobiology</i> , 2011, 21, 152-161.	1.3	34
50	Regulation of Type I Collagen Production by Insulin and Transforming Growth Factor- $\beta^2$ in Human Lung Fibroblasts. <i>Connective Tissue Research</i> , 1996, 34, 53-62.	1.1	30
51	Bleomycin-induced lung fibrosis in IL-4-overexpressing and knockout mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002, 283, L1110-L1116.	1.3	30
52	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> , 2012, 47, 11-19.	1.4	30
53	The expression of long-term potentiation: reconciling the preists and the postivists. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130135.	1.8	29
54	Experience-Dependent versus Experience-Independent Postembryonic Development of Distinct Groups of Zebrafish Olfactory Glomeruli. <i>Journal of Neuroscience</i> , 2013, 33, 6905-6916.	1.7	26

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55	Retinoic acid-induced inhibition of type I collagen gene expression by human lung fibroblasts. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1994, 1219, 335-341.	2.4	24
56	Mesenchymal Progenitor Cell Research: Limitations and Recommendations. <i>Proceedings of the American Thoracic Society</i> , 2008, 5, 707-710.	3.5	24
57	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> , 2013, 8, e74469.	1.1	23
58	Airway basal stem cells generate distinct subpopulations of PNECs. <i>Cell Reports</i> , 2021, 35, 109011.	2.9	22
59	Activation Dynamics and Signaling Properties of Notch3 Receptor in the Developing Pulmonary Artery. <i>Journal of Biological Chemistry</i> , 2011, 286, 22678-22687.	1.6	21
60	Gene expression profiling and localization of Hoechst-effluxing CD45 <sup>hi</sup> and CD45 <sup>+</sup> cells in the embryonic mouse lung. <i>Physiological Genomics</i> , 2005, 23, 172-181.	1.0	18
61	Discordant regulation of human type I collagen genes by prostaglandin E2. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1992, 1135, 67-72.	1.9	17
62	Stem Cells in Airway Smooth Muscle: State of the Art. <i>Proceedings of the American Thoracic Society</i> , 2008, 5, 11-14.	3.5	17
63	A simple automated system for appetitive conditioning of zebrafish in their home tanks. <i>Behavioural Brain Research</i> , 2017, 317, 444-452.	1.2	17
64	Retinoic acid signaling is essential for airway smooth muscle homeostasis. <i>JCI Insight</i> , 2018, 3, .	2.3	16
65	Discordant regulation of transforming growth factor- $\beta$ receptors by prostaglandin E2. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1995, 1261, 19-24.	2.4	14
66	Status of retraction notices for biomedical publications associated with research misconduct. <i>Research Ethics</i> , 2019, 15, 1-5.	0.8	13
67	Quantitative three-dimensional confocal microscopy of synaptic structures in living brain tissue. <i>Microscopy Research and Technique</i> , 1994, 29, 290-296.	1.2	12
68	Simultaneous in situ hybridization and TUNEL to identify cells undergoing apoptosis. <i>The Histochemical Journal</i> , 1997, 29, 413-418.	0.6	11
69	Marrow cells as progenitors of lung tissue. <i>Blood Cells, Molecules, and Diseases</i> , 2004, 32, 95-96.	0.6	10
70	Effect of insoluble extracellular matrix molecules on fas expression in epithelial cells. , 1998, 174, 285-292.		8
71	Breathing Life into the Lung Stem Cell Field. <i>Cell Stem Cell</i> , 2009, 4, 468-469.	5.2	7
72	Molecular characterization of the mouse Fas ligand promoter in airway epithelial cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2000, 1490, 291-301.	2.4	6

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73	Transcriptional landscape of pulmonary lymphatic endothelial cells during fetal gestation. PLoS ONE, 2019, 14, e0216795.	1.1	4
74	Fevers, Weight Loss, and Bilateral Peripheral Infiltrates in a Young Man. Chest, 1999, 115, 1181-1183.	0.4	2
75	Optical Quantal Analysis. Frontiers in Synaptic Neuroscience, 2019, 11, 8.	1.3	2
76	IL-1 $\beta$ regulates the mouse Fas ligand expression in corneal endothelial cells. Science Bulletin, 2007, 52, 2210-2215.	1.7	0
77	Data on horizontal and vertical movements of zebrafish during appetitive conditioning. Data in Brief, 2016, 9, 758-763.	0.5	0