

# Darrell N Kotton

## List of Publications by Year in descending order

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126  
papers

12,559  
citations

30047

54  
h-index

27389

106  
g-index

149  
all docs

149  
docs citations

149  
times ranked

17154  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human airway lineages derived from pluripotent stem cells reveal the epithelial responses to SARS-CoV-2 infection. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L462-L478.	1.3	17
2	Recapitulating human cardio-pulmonary co-development using simultaneous multilineage differentiation of pluripotent stem cells. <i>ELife</i> , 2022, 11, .	2.8	22
3	Epithelial LIF signaling limits apoptosis and lung injury during bacterial pneumonia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L550-L563.	1.3	5
4	Recombinant Lloviu virus as a tool to study viral replication and host responses. <i>PLoS Pathogens</i> , 2022, 18, e1010268.	2.1	11
5	Editorial: Progenitors and Stem Cells in Thyroid Development, Disease, and Regeneration. <i>Frontiers in Endocrinology</i> , 2022, 13, 848559.	1.5	0
6	Human alveolar type 2 epithelium transdifferentiates into metaplastic KRT5+ basal cells. <i>Nature Cell Biology</i> , 2022, 24, 10-23.	4.6	108
7	CoSpar identifies early cell fate biases from single-cell transcriptomic and lineage information. <i>Nature Biotechnology</i> , 2022, 40, 1066-1074.	9.4	43
8	Air-liquid interface culture promotes maturation and allows environmental exposure of pluripotent stem cell-derived alveolar epithelium. <i>JCI Insight</i> , 2022, 7, .	2.3	17
9	Specific mesoderm subset derived from human pluripotent stem cells ameliorates microvascular pathology in type 2 diabetic mice. <i>Science Advances</i> , 2022, 8, eabm5559.	4.7	8
10	Human distal airways contain a multipotent secretory cell that can regenerate alveoli. <i>Nature</i> , 2022, 604, 120-126.	13.7	128
11	Generating 3D Spheres and 2D Air-Liquid Interface Cultures of Human Induced Pluripotent Stem Cell-Derived Type 2 Alveolar Epithelial Cells. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	1
12	CRISPR interference interrogation of COPD GWAS genes reveals the functional significance of desmoplakin in iPSC-derived alveolar epithelial cells. <i>Science Advances</i> , 2022, 8, .	4.7	6
13	Epithelial Stem and Progenitor Cells in Lung Repair and Regeneration. <i>Annual Review of Physiology</i> , 2021, 83, 529-550.	5.6	46
14	Derivation of Airway Basal Stem Cells from Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2021, 28, 79-95.e8.	5.2	119
15	Common Genetic Variation in Humans Impacts In Vitro Susceptibility to SARS-CoV-2 Infection. <i>Stem Cell Reports</i> , 2021, 16, 505-518.	2.3	39
16	SARS-CoV-2 drives JAK1/2-dependent local complement hyperactivation. <i>Science Immunology</i> , 2021, 6, .	5.6	144
17	Derivation of Thyroid Follicular Cells From Pluripotent Stem Cells: Insights From Development and Implications for Regenerative Medicine. <i>Frontiers in Endocrinology</i> , 2021, 12, 666565.	1.5	10
18	Induced pluripotent stem cells for generating lung alveolar epithelial cells and modelling respiratory disease. , 2021, , 205-221.		2

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19	SARS-CoV-2 induces double-stranded RNA-mediated innate immune responses in respiratory epithelial-derived cells and cardiomyocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	159
20	Patient-specific iPSCs carrying an SFTPC mutation reveal the intrinsic alveolar epithelial dysfunction at the inception of interstitial lung disease. <i>Cell Reports</i> , 2021, 36, 109636.	2.9	48
21	Morphological cell profiling of SARS-CoV-2 infection identifies drug repurposing candidates for COVID-19. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	124
22	Differentiation of human pluripotent stem cells into functional airway basal stem cells. <i>STAR Protocols</i> , 2021, 2, 100683.	0.5	7
23	Heterogeneity in Human Induced Pluripotent Stem Cell-derived Alveolar Epithelial Type II Cells Revealed with ABCA3/SFTPC Reporters. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 65, 442-460.	1.4	19
24	Gaining Insight into Mitochondrial Genetic Variation and Downstream Pathophysiology: What Can iPSCs Do?. <i>Genes</i> , 2021, 12, 1668.	1.0	5
25	Sequence logic at enhancers governs a dual mechanism of endodermal organ fate induction by FOXA pioneer factors. <i>Nature Communications</i> , 2021, 12, 6636.	5.8	31
26	Organoids Model Transcriptional Hallmarks of Oncogenic KRAS Activation in Lung Epithelial Progenitor Cells. <i>Cell Stem Cell</i> , 2020, 27, 663-678.e8.	5.2	86
27	Expression of Amyloidogenic Transthyretin Drives Hepatic Proteostasis Remodeling in an Induced Pluripotent Stem Cell Model of Systemic Amyloid Disease. <i>Stem Cell Reports</i> , 2020, 15, 515-528.	2.3	12
28	Actionable Cytopathogenic Host Responses of Human Alveolar Type 2 Cells to SARS-CoV-2. <i>Molecular Cell</i> , 2020, 80, 1104-1122.e9.	4.5	94
29	SARS-CoV-2 Infection of Pluripotent Stem Cell-Derived Human Lung Alveolar Type 2 Cells Elicits a Rapid Epithelial-Intrinsic Inflammatory Response. <i>Cell Stem Cell</i> , 2020, 27, 962-973.e7.	5.2	266
30	Differentiation of human airway-organoids from induced pluripotent stem cells (iPSCs). <i>Methods in Cell Biology</i> , 2020, 159, 95-114.	0.5	13
31	Hidden neural states underlie canary song syntax. <i>Nature</i> , 2020, 582, 539-544.	13.7	33
32	A Highly Phenotyped Open Access Repository of Alpha-1 Antitrypsin Deficiency Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2020, 15, 242-255.	2.3	17
33	The in vivo genetic program of murine primordial lung epithelial progenitors. <i>Nature Communications</i> , 2020, 11, 635.	5.8	46
34	Reconstructed Single-Cell Fate Trajectories Define Lineage Plasticity Windows during Differentiation of Human PSC-Derived Distal Lung Progenitors. <i>Cell Stem Cell</i> , 2020, 26, 593-608.e8.	5.2	114
35	Generation of mesenchyme free intestinal organoids from human induced pluripotent stem cells. <i>Nature Communications</i> , 2020, 11, 215.	5.8	81
36	The Cellular and Physiological Basis for Lung Repair and Regeneration: Past, Present, and Future. <i>Cell Stem Cell</i> , 2020, 26, 482-502.	5.2	230

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37	Generation of a Purified iPSC-Derived Smooth Muscle-like Population for Cell Sheet Engineering. Stem Cell Reports, 2019, 13, 499-514.	2.3	17
38	Circulating Truncated Alpha-1 Antitrypsin Glycoprotein in Patient Plasma Retains Anti-Inflammatory Capacity. Journal of Immunology, 2019, 202, 2240-2253.	0.4	20
39	Derivation of self-renewing lung alveolar epithelial type II cells from human pluripotent stem cells. Nature Protocols, 2019, 14, 3303-3332.	5.5	144
40	Single-Cell Transcriptomic Profiling of Pluripotent Stem Cell-Derived SCGB3A2+ Airway Epithelium. Stem Cell Reports, 2018, 10, 1579-1595.	2.3	78
41	Pulmonary Ionocytes Challenge the Paradigm in Cystic Fibrosis. Trends in Pharmacological Sciences, 2018, 39, 852-854.	4.0	7
42	Ataluren, a New Therapeutic for Alpha-1 Antitrypsin Deficient Individuals with Nonsense Mutations. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 1099-1102.	2.5	8
43	Derivation of Epithelial-Only Airway Organoids from Human Pluripotent Stem Cells. Current Protocols in Stem Cell Biology, 2018, 45, e51.	3.0	48
44	Claudin-18: unexpected regulator of lung alveolar epithelial cell proliferation. Journal of Clinical Investigation, 2018, 128, 903-905.	3.9	16
45	Interview with Darrell Kotton. Regenerative Medicine, 2017, 12, 337-338.	0.8	0
46	Capacity of Pneumococci to Activate Macrophage Nuclear Factor $\kappa$ B: Influence on Necroptosis and Pneumonia Severity. Journal of Infectious Diseases, 2017, 216, 425-435.	1.9	16
47	TASIC: determining branching models from time series single cell data. Bioinformatics, 2017, 33, 2504-2512.	1.8	33
48	Efficient Derivation of Functional Human Airway Epithelium from Pluripotent Stem Cells via Temporal Regulation of Wnt Signaling. Cell Stem Cell, 2017, 20, 844-857.e6.	5.2	334
49	Thyroid Progenitors Are Robustly Derived from Embryonic Stem Cells through Transient, Developmental Stage-Specific Overexpression of Nkx2-1. Stem Cell Reports, 2017, 8, 216-225.	2.3	44
50	Differentiation of Human Pluripotent Stem Cells into Functional Lung Alveolar Epithelial Cells. Cell Stem Cell, 2017, 21, 472-488.e10.	5.2	406
51	Pluripotent stem cell differentiation reveals distinct developmental pathways regulating lung versus thyroid lineage specification. Development (Cambridge), 2017, 144, 3879-3893.	1.2	73
52	Vascular smooth muscle cells derived from inbred swine induced pluripotent stem cells for vascular tissue engineering. Biomaterials, 2017, 147, 116-132.	5.7	38
53	Regenerative therapy for hypothyroidism: Mechanisms and possibilities. Molecular and Cellular Endocrinology, 2017, 445, 35-41.	1.6	22
54	Prospective isolation of NKX2-1-expressing human lung progenitors derived from pluripotent stem cells. Journal of Clinical Investigation, 2017, 127, 2277-2294.	3.9	180

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55	Unstable neurons underlie a stable learned behavior. <i>Nature Neuroscience</i> , 2016, 19, 1665-1671.	7.1	88
56	Deriving type II alveolar cells from pluripotent stem cells to produce a novel model of alpha-1 antitrypsin deficiency pathogenesis. , 2016, , .		0
57	Induced pluripotent stem cells model personalized variations in liver disease resulting from $\alpha$ -1 antitrypsin deficiency. <i>Hepatology</i> , 2015, 62, 147-157.	3.6	77
58	Emergence of a Stage-Dependent Human Liver Disease Signature with Directed Differentiation of Alpha-1 Antitrypsin-Deficient iPS Cells. <i>Stem Cell Reports</i> , 2015, 4, 873-885.	2.3	77
59	Embryonic and Induced Pluripotent Stem Cells for Lung Regeneration. <i>Annals of the American Thoracic Society</i> , 2015, 12, S50-S53.	1.5	47
60	Regeneration of Thyroid Function by Transplantation of Differentiated Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2015, 17, 527-542.	5.2	170
61	Targeted Correction and Restored Function of the CFTR Gene in Cystic Fibrosis Induced Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2015, 4, 569-577.	2.3	168
62	Derivation of Endodermal Progenitors From Pluripotent Stem Cells. <i>Journal of Cellular Physiology</i> , 2015, 230, 246-258.	2.0	25
63	Identification of a common Wnt-associated genetic signature across multiple cell types in pulmonary arterial hypertension. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C415-C430.	2.1	64
64	Diffuse lung disease in children: Summary of a scientific conference. <i>Pediatric Pulmonology</i> , 2014, 49, 400-409.	1.0	16
65	Lung regeneration: mechanisms, applications and emerging stem cell populations. <i>Nature Medicine</i> , 2014, 20, 822-832.	15.2	416
66	Modeling Pulmonary Alveolar Proteinosis with Induced Pluripotent Stem Cells. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 189, 124-126.	2.5	1
67	Lentiviral Delivery of RNAi for In Vivo Lineage-Specific Modulation of Gene Expression in Mouse Lung Macrophages. <i>Molecular Therapy</i> , 2013, 21, 825-833.	3.7	69
68	Induced Pluripotent Stem Cell Modeling of Multisystemic, Hereditary Transthyretin Amyloidosis. <i>Stem Cell Reports</i> , 2013, 1, 451-463.	2.3	42
69	KDR Identifies a Conserved Human and Murine Hepatic Progenitor and Instructs Early Liver Development. <i>Cell Stem Cell</i> , 2013, 12, 748-760.	5.2	53
70	The aryl hydrocarbon receptor directs hematopoietic progenitor cell expansion and differentiation. <i>Blood</i> , 2013, 122, 376-385.	0.6	119
71	Intracellular Bacillary Burden Reflects a Burst Size for Mycobacterium tuberculosis In Vivo. <i>PLoS Pathogens</i> , 2013, 9, e1003190.	2.1	104
72	Induced pluripotent stem cells used to reveal drug actions in a long QT syndrome family with complex genetics. <i>Journal of General Physiology</i> , 2013, 141, 61-72.	0.9	189

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73	Clonal genetic and hematopoietic heterogeneity among human-induced pluripotent stem cell lines. <i>Blood</i> , 2013, 122, 2047-2051.	0.6	75
74	Diminished Memory T-Cell Expansion Due to Delayed Kinetics of Antigen Expression by Lentivectors. <i>PLoS ONE</i> , 2013, 8, e66488.	1.1	1
75	Induced pluripotent stem cells used to reveal drug actions in a long QT syndrome family with complex genetics. <i>Journal of Cell Biology</i> , 2013, 200, i3-i3.	2.3	1
76	Lectin-Dependent Enhancement of Ebola Virus Infection via Soluble and Transmembrane C-type Lectin Receptors. <i>PLoS ONE</i> , 2013, 8, e60838.	1.1	67
77	The Transcription Factors Grainyhead-like 2 and NK2-Homeobox 1 Form a Regulatory Loop That Coordinates Lung Epithelial Cell Morphogenesis and Differentiation*. <i>Journal of Biological Chemistry</i> , 2012, 287, 37282-37295.	1.6	82
78	Are embryonic stem and induced pluripotent stem cells the same or different? Implications for their potential therapeutic use. <i>Cell Cycle</i> , 2012, 11, 5-6.	1.3	4
79	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
80	Generation of Human Induced Pluripotent Stem Cells from Peripheral Blood Using the STEMCCA Lentiviral Vector. <i>Journal of Visualized Experiments</i> , 2012, , .	0.2	55
81	Patient-Specific Inducible Pluripotent Stem Cells Reveal Mechanism of Personalized Therapy for an Inherited Cardiac Arrhythmia. <i>Biophysical Journal</i> , 2012, 102, 539a.	0.2	0
82	Efficient Derivation of Purified Lung and Thyroid Progenitors from Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2012, 10, 398-411.	5.2	358
83	Self-Renewing Endodermal Progenitor Lines Generated from Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2012, 10, 371-384.	5.2	190
84	Modeling Supravalvular Aortic Stenosis Syndrome With Human Induced Pluripotent Stem Cells. <i>Circulation</i> , 2012, 126, 1695-1704.	1.6	106
85	Next-Generation Regeneration. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 185, 1255-1260.	2.5	63
86	Role of Nanog in the maintenance of marrow stromal stem cells during post natal bone regeneration. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 211-216.	1.0	23
87	Case 2-2012. <i>New England Journal of Medicine</i> , 2012, 366, 259-269.	13.9	11
88	The 2012 Nobel Prize in Physiology or Medicine. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 186, 1080-1081.	2.5	2
89	Residual Expression of Reprogramming Factors Affects the Transcriptional Program and Epigenetic Signatures of Induced Pluripotent Stem Cells. <i>PLoS ONE</i> , 2012, 7, e51711.	1.1	43
90	Mouse ESC Differentiation to Nkx2.1+ Lung and Thyroid Progenitors. <i>Bio-protocol</i> , 2012, 2, .	0.2	4

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91	A Shift From Cell Cultures to Creatures: In Vivo Imaging of Small Animals in Experimental Regenerative Medicine. <i>Molecular Therapy</i> , 2011, 19, 1933-1941.	3.7	36
92	FOXO1 modulates osteoblast differentiation. <i>Bone</i> , 2011, 48, 1043-1051.	1.4	71
93	Biophysical properties of slow potassium channels in human embryonic stem cell derived cardiomyocytes implicate subunit stoichiometry. <i>Journal of Physiology</i> , 2011, 589, 6093-6104.	1.3	41
94	Telomere dysfunction induces metabolic and mitochondrial compromise. <i>Nature</i> , 2011, 470, 359-365.	13.7	1,093
95	Cell Plasticity in Lung Injury and Repair: Report from an NHLBI Workshop, April 19-20, 2010. <i>Proceedings of the American Thoracic Society</i> , 2011, 8, 215-222.	3.5	36
96	Programmatic change: lung disease research in the era of induced pluripotency. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 301, L830-L835.	1.3	6
97	Mouse ES and iPS cells can form similar definitive endoderm despite differences in imprinted genes. <i>Journal of Clinical Investigation</i> , 2011, 121, 2313-2325.	3.9	50
98	Pluripotent Stem Cell Modeling of Normal and Abnormal Megakaryocyte Development and Platelet Production. <i>Blood</i> , 2011, 118, 1276-1276.	0.6	0
99	Excision of Reprogramming Transgenes Improves the Differentiation Potential of iPS Cells Generated with a Single Excisable Vector. <i>Stem Cells</i> , 2010, 28, 64-74.	1.4	237
100	Generation of Transgene-Free Lung Disease-Specific Human Induced Pluripotent Stem Cells Using a Single Excisable Lentiviral Stem Cell Cassette. <i>Stem Cells</i> , 2010, 28, 1728-1740.	1.4	375
101	Regeneration and orthotopic transplantation of a bioartificial lung. <i>Nature Medicine</i> , 2010, 16, 927-933.	15.2	980
102	miR-129 regulates cell proliferation by downregulating Cdk6 expression. <i>Cell Cycle</i> , 2010, 9, 1809-1818.	1.3	163
103	Epigenetic Mechanisms Modulate Thyroid Transcription Factor 1-mediated Transcription of the Surfactant Protein B Gene. <i>Journal of Biological Chemistry</i> , 2010, 285, 2152-2164.	1.6	31
104	The Role of Skin-Derived Dendritic Cells in CD8+ T Cell Priming Following Immunization with Lentivectors. <i>Journal of Immunology</i> , 2010, 184, 4889-4897.	0.4	33
105	Enhanced Reprogramming and Cardiac Differentiation of Human Keratinocytes Derived from Plucked Hair Follicles, Using a Single Excisable Lentivirus. <i>Cellular Reprogramming</i> , 2010, 12, 665-678.	0.5	77
106	Amelioration of emphysema in mice through lentiviral transduction of long-lived pulmonary alveolar macrophages. <i>Journal of Clinical Investigation</i> , 2010, 120, 379-389.	3.9	74
107	Induced Pluripotent Stem Cell Generation Using a Single Lentiviral Stem Cell Cassette. <i>Stem Cells</i> , 2009, 27, 543-549.	1.4	609
108	Pulmonary Alveolar Proteinosis. <i>Chest</i> , 2009, 136, 571-577.	0.4	57

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109	Transcriptional Analysis of Fracture Healing and the Induction of Embryonic Stem Cell-Related Genes. PLoS ONE, 2009, 4, e5393.	1.1	96
110	Lung stem cells. Cell and Tissue Research, 2008, 331, 145-156.	1.5	78
111	Another notch in stem cell biology: <i>Drosophila</i> intestinal stem cells and the specification of cell fates. BioEssays, 2008, 30, 107-109.	1.2	10
112	Dual-promoter lentiviral system allows inducible expression of noxious proteins in macrophages. Journal of Immunological Methods, 2008, 329, 31-44.	0.6	39
113	The Prolonged Life-Span of Alveolar Macrophages. American Journal of Respiratory Cell and Molecular Biology, 2008, 38, 380-385.	1.4	168
114	Sustained Expression of $\alpha$ 1-Antitrypsin after Transplantation of Manipulated Hematopoietic Stem Cells. American Journal of Respiratory Cell and Molecular Biology, 2008, 39, 133-141.	1.4	59
115	Exogenous control of mammalian gene expression via modulation of translational termination. Nature Medicine, 2006, 12, 1093-1099.	15.2	53
116	A novel stem-cell population in adult liver with potent hematopoietic-reconstitution activity. Blood, 2005, 106, 1574-1580.	0.6	54
117	Embryonic Lung Side Population Cells Are Hematopoietic and Vascular Precursors. American Journal of Respiratory Cell and Molecular Biology, 2005, 33, 32-40.	1.4	52
118	Failure of Bone Marrow to Reconstitute Lung Epithelium. American Journal of Respiratory Cell and Molecular Biology, 2005, 33, 328-334.	1.4	252
119	Efficiency of transduction of highly purified murine hematopoietic stem cells by lentiviral and oncoretroviral vectors under conditions of minimal in vitro manipulation. Molecular Therapy, 2005, 11, 932-940.	3.7	131
120	Lung stem cells: New paradigms. Experimental Hematology, 2004, 32, 340-343.	0.2	48
121	Origin and phenotype of lung side population cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L477-L483.	1.3	67
122	Derivation of lung epithelium from bone marrow cells. Cytotherapy, 2003, 5, 169-173.	0.3	25
123	Stem cell antigen-1 expression in the pulmonary vascular endothelium. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 284, L990-L996.	1.3	56
124	Side population cells and Bcrp1 expression in lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 285, L97-L104.	1.3	247
125	Bone marrow-derived cells as progenitors of lung alveolar epithelium. Development (Cambridge), 2001, 128, 5181-5188.	1.2	466
126	The Genetic Programs Regulating Embryonic Lung Development and Induced Pluripotent Stem Cell Differentiation. , 0, , 1-21.		3