

# Benjamin D Singer

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

6,092  
citations

109321

35  
h-index

82547

72  
g-index

89  
all docs

89  
docs citations

89  
times ranked

10840  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Cell Transcriptomic Analysis of Human Lung Provides Insights into the Pathobiology of Pulmonary Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 1517-1536.	5.6	866
2	Monocyte-derived alveolar macrophages drive lung fibrosis and persist in the lung over the life span. <i>Journal of Experimental Medicine</i> , 2017, 214, 2387-2404.	8.5	755
3	Circuits between infected macrophages and T cells in SARS-CoV-2 pneumonia. <i>Nature</i> , 2021, 590, 635-641.	27.8	524
4	Cities as harbingers of climate change: Common ragweed, urbanization, and public health. <i>Journal of Allergy and Clinical Immunology</i> , 2003, 111, 290-295.	2.9	368
5	Molecular and physiological manifestations and measurement of aging in humans. <i>Aging Cell</i> , 2017, 16, 624-633.	6.7	323
6	Mitochondrial complex III is essential for suppressive function of regulatory T cells. <i>Nature</i> , 2019, 565, 495-499.	27.8	323
7	Prompting Physicians to Address a Daily Checklist and Process of Care and Clinical Outcomes. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 680-686.	5.6	189
8	Research note: Increasing Amb a 1 content in common ragweed ( <i>Ambrosia artemisiifolia</i> ) pollen as a function of rising atmospheric CO <sub>2</sub> concentration. <i>Functional Plant Biology</i> , 2005, 32, 667.	2.1	175
9	Pathogenesis of COVID-19-induced ARDS: implications for an ageing population. <i>European Respiratory Journal</i> , 2020, 56, 2002049.	6.7	168
10	Regulatory T Cells as Immunotherapy. <i>Frontiers in Immunology</i> , 2014, 5, 46.	4.8	158
11	Foxp3+ regulatory T cells promote lung epithelial proliferation. <i>Mucosal Immunology</i> , 2014, 7, 1440-1451.	6.0	118
12	Bacterial Superinfection Pneumonia in Patients Mechanically Ventilated for COVID-19 Pneumonia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 921-932.	5.6	108
13	DNA methylation as a transcriptional regulator of the immune system. <i>Translational Research</i> , 2019, 204, 1-18.	5.0	102
14	TET2 coactivates gene expression through demethylation of enhancers. <i>Science Advances</i> , 2018, 4, eaau6986.	10.3	86
15	CATACOMB: An endogenous inducible gene that antagonizes H3K27 methylation activity of Polycomb repressive complex 2 via an H3K27M-like mechanism. <i>Science Advances</i> , 2019, 5, eaax2887.	10.3	86
16	The lung microenvironment shapes a dysfunctional response of alveolar macrophages in aging. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	86
17	Regulatory T Cell DNA Methyltransferase Inhibition Accelerates Resolution of Lung Inflammation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 52, 641-652.	2.9	84
18	Enhanced resolution of experimental ARDS through IL-4-mediated lung macrophage reprogramming. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L733-L746.	2.9	83

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19	mTORC1 stimulates cell growth through SAM synthesis and m6A mRNA-dependent control of protein synthesis. <i>Molecular Cell</i> , 2021, 81, 2076-2093.e9.	9.7	77
20	Uncoupling histone H3K4 trimethylation from developmental gene expression via an equilibrium of COMPASS, Polycomb and DNA methylation. <i>Nature Genetics</i> , 2020, 52, 615-625.	21.4	76
21	Cancer-specific CTCF binding facilitates oncogenic transcriptional dysregulation. <i>Genome Biology</i> , 2020, 21, 247.	8.8	70
22	A Practical Guide to the Measurement and Analysis of DNA Methylation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 417-428.	2.9	61
23	First-Year Residents Outperform Third-Year Residents After Simulation-Based Education in Critical Care Medicine. <i>Simulation in Healthcare</i> , 2013, 8, 67-71.	1.2	58
24	Invasive Mechanical Ventilation. <i>Southern Medical Journal</i> , 2018, 111, 746-753.	0.7	58
25	Technology dictates algorithms: recent developments in read alignment. <i>Genome Biology</i> , 2021, 22, 249.	8.8	51
26	Maintenance DNA methylation is essential for regulatory T cell development and stability of suppressive function. <i>Journal of Clinical Investigation</i> , 2020, 130, 6571-6587.	8.2	51
27	Retention of Critical Care Skills After Simulation-Based Mastery Learning. <i>Journal of Graduate Medical Education</i> , 2013, 5, 458-463.	1.3	50
28	Multidimensional assessment of alveolar T cells in critically ill patients. <i>JCI Insight</i> , 2018, 3, .	5.0	49
29	Improving the Quality and Reproducibility of Flow Cytometry in the Lung. An Official American Thoracic Society Workshop Report. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 150-161.	2.9	49
30	Distinctive features of severe SARS-CoV-2 pneumonia. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	49
31	Flow-cytometric method for simultaneous analysis of mouse lung epithelial, endothelial, and hematopoietic lineage cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L796-L801.	2.9	48
32	Progress Toward Improving Medical School Graduates'™ Skills via a "Boot Camp" Curriculum. <i>Simulation in Healthcare</i> , 2014, 9, 33-39.	1.2	47
33	Basic Invasive Mechanical Ventilation. <i>Southern Medical Journal</i> , 2009, 102, 1238-1245.	0.7	43
34	DNA methylation regulates the neonatal CD4+ T-cell response to pneumonia in mice. <i>Journal of Biological Chemistry</i> , 2018, 293, 11772-11783.	3.4	41
35	Therapeutic exercise attenuates neutrophilic lung injury and skeletal muscle wasting. <i>Science Translational Medicine</i> , 2015, 7, 278ra32.	12.4	38
36	Extracorporeal Membrane Oxygenation Can Successfully Support Patients With Severe Acute Respiratory Distress Syndrome in Lieu of Mechanical Ventilation. <i>Critical Care Medicine</i> , 2018, 46, e1070-e1073.	0.9	38

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37	COVID-19 and the next influenza season. <i>Science Advances</i> , 2020, 6, eabd0086.	10.3	37
38	Immunological Priming Requires Regulatory T Cells and IL-10-Producing Macrophages To Accelerate Resolution from Severe Lung Inflammation. <i>Journal of Immunology</i> , 2014, 192, 4453-4464.	0.8	35
39	Pressure Modes of Invasive Mechanical Ventilation. <i>Southern Medical Journal</i> , 2011, 104, 701-709.	0.7	32
40	Immunometabolism of pro-repair cells. <i>Journal of Clinical Investigation</i> , 2019, 129, 2597-2607.	8.2	30
41	Right Ventricular Angiogenesis is an Early Adaptive Response to Chronic Hypoxia-Induced Pulmonary Hypertension. <i>Microcirculation</i> , 2015, 22, 724-736.	1.8	28
42	Comparing Nasopharyngeal and BAL SARS-CoV-2 Assays in Respiratory Failure. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 127-129.	5.6	27
43	Age-related Differences in the Nasal Mucosal Immune Response to SARS-CoV-2. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, 206-222.	2.9	27
44	Ageing imparts cell-autonomous dysfunction to regulatory T cells during recovery from influenza pneumonia. <i>JCI Insight</i> , 2021, 6, .	5.0	25
45	Inflammation and transcriptional responses of peripheral blood mononuclear cells in classic ataxia telangiectasia. <i>PLoS ONE</i> , 2018, 13, e0209496.	2.5	20
46	A Call for Rational Intensive Care in the Era of COVID-19. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 132-133.	2.9	20
47	Detection of respiratory pathogens in clinical samples using metagenomic shotgun sequencing. <i>Journal of Medical Microbiology</i> , 2019, 68, 996-1002.	1.8	19
48	Human monocytic ehrlichiosis complicated by hemophagocytic lymphohistiocytosis and multi-organ dysfunction syndrome. <i>Diagnostic Microbiology and Infectious Disease</i> , 2016, 86, 327-328.	1.8	16
49	Severe Adverse Drug Reaction to Gadobenate Dimeglumine. <i>Scientific World Journal</i> , The, 2009, 9, 363-365.	2.1	15
50	Epigenetic Control of Regulatory T Cell Stability and Function: Implications for Translation. <i>Frontiers in Immunology</i> , 2022, 13, 861607.	4.8	15
51	The innate immune response to lower respiratory tract E. Coli infection and the role of the CCL2-CCR2 axis in neonatal mice. <i>Cytokine</i> , 2017, 97, 108-116.	3.2	13
52	DNA methylation and gene expression signatures are associated with ataxia-telangiectasia phenotype. <i>Scientific Reports</i> , 2020, 10, 7479.	3.3	13
53	Update in COVID-19 2020. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 1462-1471.	5.6	13
54	PAX9 Determines Epigenetic State Transition and Cell Fate in Cancer. <i>Cancer Research</i> , 2021, 81, 4696-4708.	0.9	10

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55	Reduced expression of mitochondrial complex I subunit Ndufs2 does not impact healthspan in mice. <i>Scientific Reports</i> , 2022, 12, 5196.	3.3	10
56	Systemic Lupus Erythematosus-associated Diffuse Alveolar Hemorrhage: A Case Report and Review of the Literature. <i>Clinical Pulmonary Medicine</i> , 2018, 25, 166-169.	0.3	8
57	Age-Dependent Differences in T-Cell Responses to Influenza A Virus. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 415-423.	2.9	7
58	Systemic lupus erythematosus-associated diffuse alveolar hemorrhage: A case report and review of the literature. <i>Clinical Pulmonary Medicine</i> , 2018, 25, 166-169.	0.3	7
59	Toward a Paradigm to Distinguish Distinct Functions of FOXP3+ Regulatory T Cells. <i>ImmunoHorizons</i> , 2021, 5, 944-952.	1.8	7
60	CoRESTed development of regulatory T cells. <i>Journal of Clinical Investigation</i> , 2020, 130, 1618-1621.	8.2	5
61	Vitamin C and Sepsis. <i>Chest</i> , 2017, 152, 904-905.	0.8	4
62	Metastatic pulmonary calcification and end-stage renal disease. <i>Cleveland Clinic Journal of Medicine</i> , 2017, 84, 668-669.	1.3	4
63	The Socrates Project for Difficult Diagnosis at Northwestern Medicine. <i>Journal of Hospital Medicine</i> , 2020, 15, 116-118.	1.4	4
64	Comment on Adamzik et al.: An increased alveolar CD4 <sup>+</sup> CD25 <sup>+</sup> Foxp3 <sup>+</sup> T-regulatory cell ratio in acute respiratory distress syndrome is associated with increased 30-day mortality. <i>Intensive Care Medicine</i> , 2014, 40, 1604-1604.	8.2	3
65	Selected Bibliography of Recent Research in COVID-19. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 1548-1562.	5.6	3
66	Advancing Lung Immunology Research: An Official American Thoracic Society Workshop Report. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 67, e1-18.	2.9	3
67	Regulatory T cell Itch reins in Th2 inflammation. <i>Cellular and Molecular Immunology</i> , 2014, 11, 126-128.	10.5	2
68	More Than a Touch of Gray: Embracing Uncertainty in the Intensive Care Unit. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 932-933.	5.6	2
69	Opening the Regulatory T Cell Toolbox. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 137-138.	2.9	2
70	Simulation-Based Education Improves Resident Competency In The Medical Intensive Care Unit. , 2011, , .		1
71	Transcriptomic signatures decode Th17 cell pathogenicity. <i>Cellular and Molecular Immunology</i> , 2016, 13, 557-559.	10.5	1
72	Histone/protein deacetylase 3 dictates critical aspects of regulatory T cell development and function. <i>Cellular and Molecular Immunology</i> , 2016, 13, 415-417.	10.5	1

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73	Headed in the Wrong Direction: Chronic and Acute Derangements in Pulmonary Blood Flow Distribution in a Patient with Severe Pulmonary Vein Stenosis. <i>Annals of the American Thoracic Society</i> , 2019, 16, 1321-1326.	3.2	1
74	Prompting To Use A Daily Rounding Checklist Reduces Costs Associated With Hospitalization. , 2011, , .		0
75	Retention Of Critical Care Skills Learned Through Simulation-Based Education. , 2012, , .		0
76	Foxp3+Regulatory T-Cell DNA Demethylation Accelerates Resolution of Acute Lung Injury. <i>Annals of the American Thoracic Society</i> , 2015, 12, S73-S73.	3.2	0
77	Defining the Cell Type through Which the Asthma-Associated Intercellular Junction Protein Alpha-T-Catenin Drives Asthma Phenotypes in Mice. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, AB170.	2.9	0