

Jonathan D Powell

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

10,584
citations

50
h-index

102
g-index

124
ext. papers

12,863
ext. citations

12.6
avg, IF

6.54
L-index

#	Paper	IF	Citations
117	Sulforaphane exhibits antiviral activity against pandemic SARS-CoV-2 and seasonal HCoV-OC43 coronaviruses in vitro and in mice.. <i>Communications Biology</i> , 2022 , 5, 242	6.7	7
116	Signatures of GVHD and Relapse after Post-Transplant Cyclophosphamide Revealed by Immune Profiling and Machine Learning. <i>Blood</i> , 2021 ,	2.2	4
115	Sulforaphane exhibits in vitro and in vivo antiviral activity against pandemic SARS-CoV-2 and seasonal HCoV-OC43 coronaviruses 2021 ,		5
114	Metabolic programs define dysfunctional immune responses in severe COVID-19 patients. <i>Cell Reports</i> , 2021 , 34, 108863	10.6	40
113	Fueling the Revolution: Targeting Metabolism to Enhance Immunotherapy. <i>Cancer Immunology Research</i> , 2021 , 9, 255-260	12.5	4
112	Functional characterization of CD4+ T cell receptors crossreactive for SARS-CoV-2 and endemic coronaviruses. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	19
111	mTORC1 Signaling Regulates Proinflammatory Macrophage Function and Metabolism. <i>Journal of Immunology</i> , 2021 , 207, 913-922	5.3	2
110	Inhibition of the Adenosine Pathway to Potentiate Cancer Immunotherapy: Potential for Combinatorial Approaches. <i>Annual Review of Medicine</i> , 2021 , 72, 331-348	17.4	12
109	An engineered IL-2 partial agonist promotes CD8 T cell stemness. <i>Nature</i> , 2021 , 597, 544-548	50.4	14
108	Immune dysregulation as a driver of idiopathic pulmonary fibrosis. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	21
107	A phase II randomized trial of Radium-223 dichloride and SABR Versus SABR for oligometastatic prostate cancer (RAVENS). <i>BMC Cancer</i> , 2020 , 20, 492	4.8	6
106	Manipulation of Metabolic Pathways and Its Consequences for Anti-Tumor Immunity: A Clinical Perspective. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
105	Metabolism of immune cells in cancer. <i>Nature Reviews Cancer</i> , 2020 , 20, 516-531	31.3	144
104	Targeting Metabolism as a Platform for Inducing Allograft Tolerance in the Absence of Long-Term Immunosuppression. <i>Frontiers in Immunology</i> , 2020 , 11, 572	8.4	0
103	Targeting glutamine metabolism enhances tumor-specific immunity by modulating suppressive myeloid cells. <i>Journal of Clinical Investigation</i> , 2020 , 130, 3865-3884	15.9	79
102	An exploratory study of metformin with or without rapamycin as maintenance therapy after induction chemotherapy in patients with metastatic pancreatic adenocarcinoma. <i>Oncotarget</i> , 2020 , 11, 1929-1941	3.3	3
101	A phase II randomized trial of Radium-223 dichloride and SABR versus SABR for oligometastatic prostate cancer (RAVENS).. <i>Journal of Clinical Oncology</i> , 2020 , 38, TPS5586-TPS5586	2.2	

100	Metabolic programs define dysfunctional immune responses in severe COVID-19 patients 2020 ,		13
99	Rethinking the adenosine-AR checkpoint: implications for enhancing anti-tumor immunotherapy. <i>Current Opinion in Pharmacology</i> , 2020 , 53, 77-83	5.1	2
98	PKG1-modified TSC2 regulates mTORC1 activity to counter adverse cardiac stress. <i>Nature</i> , 2019 , 566, 264-269	50.4	60
97	Inhibition of glutamine metabolism accelerates resolution of acute lung injury. <i>Physiological Reports</i> , 2019 , 7, e14019	2.6	5
96	Targeting metabolism to regulate immune responses in autoimmunity and cancer. <i>Nature Reviews Drug Discovery</i> , 2019 , 18, 669-688	64.1	95
95	Glutamine blockade induces divergent metabolic programs to overcome tumor immune evasion. <i>Science</i> , 2019 , 366, 1013-1021	33.3	297
94	mTOR Complex 1 Signaling Regulates the Generation and Function of Central and Effector Foxp3 Regulatory T Cells. <i>Journal of Immunology</i> , 2018 , 201, 481-492	5.3	62
93	Inhibition of the adenosine A2a receptor modulates expression of T cell coinhibitory receptors and improves effector function for enhanced checkpoint blockade and ACT in murine cancer models. <i>Cancer Immunology, Immunotherapy</i> , 2018 , 67, 1271-1284	7.4	76
92	A phase II study of temsirolimus and liposomal doxorubicin for patients with recurrent and refractory bone and soft tissue sarcomas. <i>Clinical Sarcoma Research</i> , 2018 , 8, 21	2.5	13
91	MRI demonstrates glutamine antagonist-mediated reversal of cerebral malaria pathology in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E12024-E12033	11.5	12
90	Peeking under the Hood of Naive T Cells. <i>Cell Metabolism</i> , 2018 , 28, 801-802	24.6	2
89	Acid Suspends the Circadian Clock in Hypoxia through Inhibition of mTOR. <i>Cell</i> , 2018 , 174, 72-87.e32	56.2	104
88	Targeting Metabolism as a Novel Therapeutic Approach to Autoimmunity, Inflammation, and Transplantation. <i>Journal of Immunology</i> , 2017 , 198, 999-1005	5.3	63
87	The EGR2 targets LAG-3 and 4-1BB describe and regulate dysfunctional antigen-specific CD8+ T cells in the tumor microenvironment. <i>Journal of Experimental Medicine</i> , 2017 , 214, 381-400	16.6	101
86	mTORC1 Promotes T-bet Phosphorylation To Regulate Th1 Differentiation. <i>Journal of Immunology</i> , 2017 , 198, 3939-3948	5.3	28
85	Targeting T cell metabolism to regulate T cell activation, differentiation and function in disease. <i>Current Opinion in Immunology</i> , 2017 , 46, 82-88	7.8	59
84	mTORC2 Signaling Selectively Regulates the Generation and Function of Tissue-Resident Peritoneal Macrophages. <i>Cell Reports</i> , 2017 , 20, 2439-2454	10.6	34
83	Murine Full-thickness Skin Transplantation. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	13

82	Cyclophosphamide improves engraftment in patients with SCD and severe organ damage who undergo haploidentical PBST. <i>Blood Advances</i> , 2017 , 1, 652-661	7.8	55
81	Discovery of 6-Diazo-5-oxo-l-norleucine (DON) Prodrugs with Enhanced CSF Delivery in Monkeys: A Potential Treatment for Glioblastoma. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 8621-33	8.3	53
80	De novo DNA methylation by DNA methyltransferase 3a controls early effector CD8+ T-cell fate decisions following activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10631-6	11.5	71
79	Leucine Metabolism in T Cell Activation: mTOR Signaling and Beyond. <i>Advances in Nutrition</i> , 2016 , 7, 798S-805S	5.9	59
78	An Fc-Small Molecule Conjugate for Targeted Inhibition of the Adenosine 2A Receptor. <i>ChemBioChem</i> , 2016 , 17, 1951-1960	3.8	1
77	Warburg meets epigenetics. <i>Science</i> , 2016 , 354, 419-420	33.3	3
76	Vaccinia vaccine-based immunotherapy arrests and reverses established pulmonary fibrosis. <i>JCI Insight</i> , 2016 , 1, e83116	9.9	14
75	Cellular Metabolism Controls Lymphocyte Activation and Differentiation 2016 , 38-43		
74	Deletion of mTORC1 Activity in CD4+ T Cells Is Associated with Lung Fibrosis and Increased α Cells. <i>PLoS ONE</i> , 2016 , 11, e0163288	3.7	2
73	Hunger Pains: Stimulating the Appetite of the Immune System for Cancer. <i>Cancer Cell</i> , 2016 , 30, 13-15	24.3	6
72	Developing a pro-regenerative biomaterial scaffold microenvironment requires T helper 2 cells. <i>Science</i> , 2016 , 352, 366-70	33.3	327
71	Asymmetric inheritance of mTORC1 kinase activity during division dictates CD8(+) T cell differentiation. <i>Nature Immunology</i> , 2016 , 17, 704-11	19.1	140
70	Dysregulated Macrophages Are Present in Bleomycin-Induced Murine Laryngotracheal Stenosis. <i>Otolaryngology - Head and Neck Surgery</i> , 2015 , 153, 244-50	5.5	21
69	A2aR antagonists: Next generation checkpoint blockade for cancer immunotherapy. <i>Computational and Structural Biotechnology Journal</i> , 2015 , 13, 265-72	6.8	146
68	Something in the air: hyperoxic conditioning of the tumor microenvironment for enhanced immunotherapy. <i>Cancer Cell</i> , 2015 , 27, 435-6	24.3	26
67	Preventing Allograft Rejection by Targeting Immune Metabolism. <i>Cell Reports</i> , 2015 , 13, 760-770	10.6	122
66	Targeting glutamine metabolism rescues mice from late-stage cerebral malaria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13075-80	11.5	52
65	Regulation of T cells by mTOR: the known knowns and the known unknowns. <i>Trends in Immunology</i> , 2015 , 36, 13-20	14.4	118

64	Mammalian target of rapamycin complex 2 regulates invariant NKT cell development and function independent of promyelocytic leukemia zinc-finger. <i>Journal of Immunology</i> , 2015 , 194, 223-30	5.3	39
63	Rapamycin inhibits human laryngotracheal stenosis-derived fibroblast proliferation, metabolism, and function in vitro. <i>Otolaryngology - Head and Neck Surgery</i> , 2015 , 152, 881-8	5.5	26
62	Cellular size as a means of tracking mTOR activity and cell fate of CD4+ T cells upon antigen recognition. <i>PLoS ONE</i> , 2015 , 10, e0121710	3.7	25
61	Adoptive transfer of activated marrow-infiltrating lymphocytes induces measurable antitumor immunity in the bone marrow in multiple myeloma. <i>Science Translational Medicine</i> , 2015 , 7, 288ra78	17.5	85
60	The PTEN pathway in Tregs is a critical driver of the suppressive tumor microenvironment. <i>Science Advances</i> , 2015 , 1, e1500845	14.3	113
59	Feeding an army: The metabolism of T cells in activation, anergy, and exhaustion. <i>Molecular Immunology</i> , 2015 , 68, 492-6	4.3	50
58	Sugar, fat, and protein: new insights into what T cells crave. <i>Current Opinion in Immunology</i> , 2015 , 33, 49-54	7.8	17
57	mTORC1 and mTORC2 selectively regulate CD8+ T cell differentiation. <i>Journal of Clinical Investigation</i> , 2015 , 125, 2090-108	15.9	233
56	A phase II study of temsirolimus and liposomal doxorubicin for patients with recurrent and refractory bone and soft tissue sarcomas.. <i>Journal of Clinical Oncology</i> , 2015 , 33, 10560-10560	2.2	1
55	The AGC kinase SGK1 regulates TH1 and TH2 differentiation downstream of the mTORC2 complex. <i>Nature Immunology</i> , 2014 , 15, 457-64	19.1	130
54	Cytosolic branched chain aminotransferase (BCATc) regulates mTORC1 signaling and glycolytic metabolism in CD4+ T cells. <i>Journal of Biological Chemistry</i> , 2014 , 289, 18793-804	5.4	54
53	Integrating canonical and metabolic signalling programmes in the regulation of T cell responses. <i>Nature Reviews Immunology</i> , 2014 , 14, 435-46	36.5	273
52	Single-agent GVHD prophylaxis with posttransplantation cyclophosphamide after myeloablative, HLA-matched BMT for AML, ALL, and MDS. <i>Blood</i> , 2014 , 124, 3817-27	2.2	128
51	Egr3 induces a Th17 response by promoting the development of Γ T cells. <i>PLoS ONE</i> , 2014 , 9, e87265	3.7	6
50	Insight into the role of mTOR and metabolism in T cells reveals new potential approaches to preventing graft rejection. <i>Current Opinion in Organ Transplantation</i> , 2014 , 19, 363-71	2.5	18
49	Macrophage A2A adenosinergic receptor modulates oxygen-induced augmentation of murine lung injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 48, 635-46	5.7	20
48	Natural and inducible TH17 cells are regulated differently by Akt and mTOR pathways. <i>Nature Immunology</i> , 2013 , 14, 611-8	19.1	63
47	A modified model of T-cell differentiation based on mTOR activity and metabolism. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2013 , 78, 125-30	3.9	20

46	mTOR, metabolism, and the regulation of T-cell differentiation and function. <i>Immunological Reviews</i> , 2012 , 249, 43-58	11.3	268
45	Fueling memories. <i>Immunity</i> , 2012 , 36, 3-5	32.3	5
44	Sensing the immune microenvironment to coordinate T cell metabolism, differentiation & function. <i>Seminars in Immunology</i> , 2012 , 24, 414-20	10.7	15
43	Regulation of immune responses by mTOR. <i>Annual Review of Immunology</i> , 2012 , 30, 39-68	34.7	551
42	Mammalian target of rapamycin integrates diverse inputs to guide the outcome of antigen recognition in T cells. <i>Journal of Immunology</i> , 2012 , 188, 4721-9	5.3	51
41	Enhancement of tumor immunotherapy by deletion of the A2A adenosine receptor. <i>Cancer Immunology, Immunotherapy</i> , 2012 , 61, 917-26	7.4	115
40	Regulation of CD4+ and CD8+ effector responses by Sprouty-1. <i>PLoS ONE</i> , 2012 , 7, e49801	3.7	12
39	The cytosolic branched-chain aminotransferase (BCATc) regulates T cell activation via mTOR signaling pathway. <i>FASEB Journal</i> , 2012 , 26, 127.6	0.9	
38	Akt and mTOR Pathways Differentially Regulate the Development of Natural and Inducible IL-17-Producing CD4+ T Cells. <i>Blood</i> , 2012 , 120, 838-838	2.2	
37	The kinase mTOR regulates the differentiation of helper T cells through the selective activation of signaling by mTORC1 and mTORC2. <i>Nature Immunology</i> , 2011 , 12, 295-303	19.1	792
36	A central role for mTOR kinase in homeostatic proliferation induced CD8+ T cell memory and tumor immunity. <i>Immunity</i> , 2011 , 34, 541-53	32.3	122
35	Hyaluronan fragments promote inflammation by down-regulating the anti-inflammatory A2a receptor. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011 , 45, 675-83	5.7	42
34	Estrogen-related receptor- α is a metabolic regulator of effector T-cell activation and differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18348-53	11.5	171
33	Leucine metabolism as a novel approach to improve T cell performance in managing cancer. <i>FASEB Journal</i> , 2011 , 25, 915.2	0.9	
32	Phase I/II Study of Marrow Infiltrating Lymphocytes (MILs) Generates Measurable Myeloma-Specific Immunity in the Autologous Stem Cell Transplant (SCT) Setting. <i>Blood</i> , 2011 , 118, 997-997	2.2	
31	Genetic and biochemical regulation of CD4 T cell effector differentiation: insights from examination of T cell clonal energy. <i>Immunologic Research</i> , 2010 , 47, 162-71	4.3	5
30	The receptor SIGIRR suppresses Th17 cell proliferation via inhibition of the interleukin-1 receptor pathway and mTOR kinase activation. <i>Immunity</i> , 2010 , 32, 54-66	32.3	156
29	The mammalian target of rapamycin: linking T cell differentiation, function, and metabolism. <i>Immunity</i> , 2010 , 33, 301-11	32.3	376

28	Allogeneic hematopoietic stem-cell transplantation for sickle cell disease. <i>New England Journal of Medicine</i> , 2009 , 361, 2309-17	59.2	318
27	Anergic T cells are metabolically anergic. <i>Journal of Immunology</i> , 2009 , 183, 6095-101	5.3	204
26	The adenosine a2a receptor inhibits matrix-induced inflammation in a novel fashion. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009 , 40, 251-9	5.7	44
25	Identification of DNA methyltransferase 3a as a T cell receptor-induced regulator of Th1 and Th2 differentiation. <i>Journal of Immunology</i> , 2009 , 183, 2267-76	5.3	72
24	The mTOR kinase differentially regulates effector and regulatory T cell lineage commitment. <i>Immunity</i> , 2009 , 30, 832-44	32.3	878
23	mTOR: taking cues from the immune microenvironment. <i>Immunology</i> , 2009 , 127, 459-65	7.8	86
22	Enhanced interaction between Hsp90 and raptor regulates mTOR signaling upon T cell activation. <i>Molecular Immunology</i> , 2009 , 46, 2694-8	4.3	27
21	A2A receptor signaling promotes peripheral tolerance by inducing T-cell anergy and the generation of adaptive regulatory T cells. <i>Blood</i> , 2008 , 111, 251-9	2.2	360
20	Opposing regulation of T cell function by Egr-1/NAB2 and Egr-2/Egr-3. <i>European Journal of Immunology</i> , 2008 , 38, 528-36	6.1	81
19	Bringing IL-2 down to earth. <i>Blood</i> , 2007 , 109, 2671-2672	2.2	
18	A role for mammalian target of rapamycin in regulating T cell activation versus anergy. <i>Journal of Immunology</i> , 2007 , 178, 2163-70	5.3	210
17	Adenosine and anergy. <i>Autoimmunity</i> , 2007 , 40, 425-32	3	25
16	The induction and maintenance of T cell anergy. <i>Clinical Immunology</i> , 2006 , 120, 239-46	9	41
15	Cutting Edge: TCR-induced NAB2 enhances T cell function by coactivating IL-2 transcription. <i>Journal of Immunology</i> , 2006 , 177, 8301-5	5.3	33
14	A Novel Allogeneic Transplant Conditioning Regimen Designed for Tolerance Induction in Patients with Severe Sickle Cell Disease.. <i>Blood</i> , 2006 , 108, 2994-2994	2.2	
13	Dissecting the mechanism of T-cell anergy with immunophilin ligands. <i>Current Opinion in Investigational Drugs</i> , 2006 , 7, 1002-7		19
12	Low-dose radiation plus rapamycin promotes long-term bone marrow chimerism. <i>Transplantation</i> , 2005 , 80, 1541-5	1.8	28
11	Threat matrix: low-molecular-weight hyaluronan (HA) as a danger signal. <i>Immunologic Research</i> , 2005 , 31, 207-18	4.3	94

10	Egr-2 and Egr-3 are negative regulators of T cell activation. <i>Nature Immunology</i> , 2005 , 6, 472-80	19.1	327
9	A Novel Allogeneic Transplant Conditioning Regimen Designed for Tolerance Induction in Patients with Severe Sickle Cell Disease.. <i>Blood</i> , 2005 , 106, 5429-5429	2.2	
8	The novel cyclophilin binding compound, sangliffehrin A, disassociates G1 cell cycle arrest from tolerance induction. <i>Journal of Immunology</i> , 2004 , 172, 4797-803	5.3	41
7	Non-parametric, hypothesis-based analysis of microarrays for comparison of several phenotypes. <i>Bioinformatics</i> , 2004 , 20, 364-73	7.2	18
6	Identification of the molecular mechanism by which TLR ligation and IFN-gamma synergize to induce MIG. <i>Clinical and Developmental Immunology</i> , 2004 , 11, 77-85		12
5	Role of LAG-3 in regulatory T cells. <i>Immunity</i> , 2004 , 21, 503-13	32.3	842
4	NF-kappa B activation mediates the cross-talk between extracellular matrix and interferon-gamma (IFN-gamma) leading to enhanced monokine induced by IFN-gamma (MIG) expression in macrophages. <i>Journal of Biological Chemistry</i> , 2002 , 277, 43757-62	5.4	36
3	Distinct requirements for C-C chemokine and IL-2 production by naive, previously activated, and anergic T cells. <i>Journal of Immunology</i> , 2000 , 164, 3996-4002	5.3	18
2	Molecular regulation of interleukin-2 expression by CD28 co-stimulation and anergy. <i>Immunological Reviews</i> , 1998 , 165, 287-300	11.3	160
1	Recombinant BCG overexpressing a STING agonist elicits trained immunity and improved antitumor efficacy in non-muscle invasive bladder cancer		3