

Jonathan D Powell

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2801903/jonathan-d-powell-publications-by-citations.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	The mTOR kinase differentially regulates effector and regulatory T cell lineage commitment. <i>Immunity</i> , 2009 , 30, 832-44	32.3	878
116	Role of LAG-3 in regulatory T cells. <i>Immunity</i> , 2004 , 21, 503-13	32.3	842
115	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
114	Regulation of immune responses by mTOR. <i>Annual Review of Immunology</i> , 2012 , 30, 39-68	34.7	551
113	The mammalian target of rapamycin: linking T cell differentiation, function, and metabolism. <i>Immunity</i> , 2010 , 33, 301-11	32.3	376
112	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
111	Egr-2 and Egr-3 are negative regulators of T cell activation. <i>Nature Immunology</i> , 2005 , 6, 472-80	19.1	327
110	Developing a pro-regenerative biomaterial scaffold microenvironment requires T helper 2 cells. <i>Science</i> , 2016 , 352, 366-70	33.3	327
109	Allogeneic hematopoietic stem-cell transplantation for sickle cell disease. <i>New England Journal of Medicine</i> , 2009 , 361, 2309-17	59.2	318
108	Glutamine blockade induces divergent metabolic programs to overcome tumor immune evasion. <i>Science</i> , 2019 , 366, 1013-1021	33.3	297
107	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
106	mTOR, metabolism, and the regulation of T-cell differentiation and function. <i>Immunological Reviews</i> , 2012 , 249, 43-58	11.3	268
105	mTORC1 and mTORC2 selectively regulate CD8+ T cell differentiation. <i>Journal of Clinical Investigation</i> , 2015 , 125, 2090-108	15.9	233
104	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
103	Anergic T cells are metabolically anergic. <i>Journal of Immunology</i> , 2009 , 183, 6095-101	5.3	204
102	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
101	Molecular regulation of interleukin-2 expression by CD28 co-stimulation and anergy. <i>Immunological Reviews</i> , 1998 , 165, 287-300	11.3	160

100	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
99	A2aR antagonists: Next generation checkpoint blockade for cancer immunotherapy. <i>Computational and Structural Biotechnology Journal</i> , 2015 , 13, 265-72	6.8	146
98	Metabolism of immune cells in cancer. <i>Nature Reviews Cancer</i> , 2020 , 20, 516-531	31.3	144
97	Asymmetric inheritance of mTORC1 kinase activity during division dictates CD8(+) T cell differentiation. <i>Nature Immunology</i> , 2016 , 17, 704-11	19.1	140
96	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
95	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
94	Preventing Allograft Rejection by Targeting Immune Metabolism. <i>Cell Reports</i> , 2015 , 13, 760-770	10.6	122
93	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
92	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
91	Enhancement of tumor immunotherapy by deletion of the A2A adenosine receptor. <i>Cancer Immunology, Immunotherapy</i> , 2012 , 61, 917-26	7.4	115
90	The PTEN pathway in Tregs is a critical driver of the suppressive tumor microenvironment. <i>Science Advances</i> , 2015 , 1, e1500845	14.3	113
89	Acid Suspends the Circadian Clock in Hypoxia through Inhibition of mTOR. <i>Cell</i> , 2018 , 174, 72-87.e32	56.2	104
88	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
87	Targeting metabolism to regulate immune responses in autoimmunity and cancer. <i>Nature Reviews Drug Discovery</i> , 2019 , 18, 669-688	64.1	95
86	Threat matrix: low-molecular-weight hyaluronan (HA) as a danger signal. <i>Immunologic Research</i> , 2005 , 31, 207-18	4.3	94
85	mTOR: taking cues from the immune microenvironment. <i>Immunology</i> , 2009 , 127, 459-65	7.8	86
84	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
83	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

82	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
81	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
80	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
79	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
78	Targeting Metabolism as a Novel Therapeutic Approach to Autoimmunity, Inflammation, and Transplantation. <i>Journal of Immunology</i> , 2017 , 198, 999-1005	5.3	63
77	Natural and inducible TH17 cells are regulated differently by Akt and mTOR pathways. <i>Nature Immunology</i> , 2013 , 14, 611-8	19.1	63
76	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
75	PKG1-modified TSC2 regulates mTORC1 activity to counter adverse cardiac stress. <i>Nature</i> , 2019 , 566, 264-269	50.4	60
74	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
73	Leucine Metabolism in T Cell Activation: mTOR Signaling and Beyond. <i>Advances in Nutrition</i> , 2016 , 7, 798S-805S	5.9	59
72	Cyclophosphamide improves engraftment in patients with SCD and severe organ damage who undergo haploidentical PBSCT. <i>Blood Advances</i> , 2017 , 1, 652-661	7.8	55
71	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
70	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
69	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
68	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
67	Feeding an army: The metabolism of T cells in activation, anergy, and exhaustion. <i>Molecular Immunology</i> , 2015 , 68, 492-6	4.3	50
66	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
65	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

64	The induction and maintenance of T cell anergy. <i>Clinical Immunology</i> , 2006 , 120, 239-46	9	41
63	The novel cyclophilin binding compound, sangliferin A, disassociates G1 cell cycle arrest from tolerance induction. <i>Journal of Immunology</i> , 2004 , 172, 4797-803	5.3	41
62	Metabolic programs define dysfunctional immune responses in severe COVID-19 patients. <i>Cell Reports</i> , 2021 , 34, 108863	10.6	40
61	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
60	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
59	mTORC2 Signaling Selectively Regulates the Generation and Function of Tissue-Resident Peritoneal Macrophages. <i>Cell Reports</i> , 2017 , 20, 2439-2454	10.6	34
58	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
57	mTORC1 Promotes T-bet Phosphorylation To Regulate Th1 Differentiation. <i>Journal of Immunology</i> , 2017 , 198, 3939-3948	5.3	28
56	Low-dose radiation plus rapamycin promotes long-term bone marrow chimerism. <i>Transplantation</i> , 2005 , 80, 1541-5	1.8	28
55	Enhanced interaction between Hsp90 and raptor regulates mTOR signaling upon T cell activation. <i>Molecular Immunology</i> , 2009 , 46, 2694-8	4.3	27
54	Something in the air: hyperoxic conditioning of the tumor microenvironment for enhanced immunotherapy. <i>Cancer Cell</i> , 2015 , 27, 435-6	24.3	26
53	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
52	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
51	Adenosine and anergy. <i>Autoimmunity</i> , 2007 , 40, 425-32	3	25
50	Dysregulated Macrophages Are Present in Bleomycin-Induced Murine Laryngotracheal Stenosis. <i>Otolaryngology - Head and Neck Surgery</i> , 2015 , 153, 244-50	5.5	21
49	Immune dysregulation as a driver of idiopathic pulmonary fibrosis. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	21
48	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
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	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
45	Dissecting the mechanism of T-cell anergy with immunophilin ligands. <i>Current Opinion in Investigational Drugs</i> , 2006 , 7, 1002-7		19
44	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
43	Non-parametric, hypothesis-based analysis of microarrays for comparison of several phenotypes. <i>Bioinformatics</i> , 2004 , 20, 364-73	7.2	18
42	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
41	Sugar, fat, and protein: new insights into what T cells crave. <i>Current Opinion in Immunology</i> , 2015 , 33, 49-54	7.8	17
40	Sensing the immune microenvironment to coordinate T cell metabolism, differentiation & function. <i>Seminars in Immunology</i> , 2012 , 24, 414-20	10.7	15
39	Vaccinia vaccine-based immunotherapy arrests and reverses established pulmonary fibrosis. <i>JCI Insight</i> , 2016 , 1, e83116	9.9	14
38	An engineered IL-2 partial agonist promotes CD8 T cell stemness. <i>Nature</i> , 2021 , 597, 544-548	50.4	14
37	Murine Full-thickness Skin Transplantation. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	13
36	Metabolic programs define dysfunctional immune responses in severe COVID-19 patients 2020 ,		13
35	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
34	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
33	Regulation of CD4+ and CD8+ effector responses by Sprouty-1. <i>PLoS ONE</i> , 2012 , 7, e49801	3.7	12
32	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
31	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
30	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
29	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

28	Egr3 induces a Th17 response by promoting the development of $\gamma\delta$ cells. <i>PLoS ONE</i> , 2014 , 9, e87265	3.7	6
27	Hunger Pains: Stimulating the Appetite of the Immune System for Cancer. <i>Cancer Cell</i> , 2016 , 30, 13-15	24.3	6
26	Inhibition of glutamine metabolism accelerates resolution of acute lung injury. <i>Physiological Reports</i> , 2019 , 7, e14019	2.6	5
25	Fueling memories. <i>Immunity</i> , 2012 , 36, 3-5	32.3	5
24	Genetic and biochemical regulation of CD4 T cell effector differentiation: insights from examination of T cell clonal anergy. <i>Immunologic Research</i> , 2010 , 47, 162-71	4.3	5
23	Sulforaphane exhibits in vitro and in vivo antiviral activity against pandemic SARS-CoV-2 and seasonal HCoV-OC43 coronaviruses 2021 ,		5
22	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
21	Signatures of GVHD and Relapse after Post-Transplant Cyclophosphamide Revealed by Immune Profiling and Machine Learning. <i>Blood</i> , 2021 ,	2.2	4
20	Fueling the Revolution: Targeting Metabolism to Enhance Immunotherapy. <i>Cancer Immunology Research</i> , 2021 , 9, 255-260	12.5	4
19	Warburg meets epigenetics. <i>Science</i> , 2016 , 354, 419-420	33.3	3
18	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
17	Recombinant BCG overexpressing a STING agonist elicits trained immunity and improved antitumor efficacy in non-muscle invasive bladder cancer		3
16	Rethinking the adenosine-AR checkpoint: implications for enhancing anti-tumor immunotherapy. <i>Current Opinion in Pharmacology</i> , 2020 , 53, 77-83	5.1	2
15	mTORC1 Signaling Regulates Proinflammatory Macrophage Function and Metabolism. <i>Journal of Immunology</i> , 2021 , 207, 913-922	5.3	2
14	Deletion of mTORC1 Activity in CD4+ T Cells Is Associated with Lung Fibrosis and Increased $\gamma\delta$ Cells. <i>PLoS ONE</i> , 2016 , 11, e0163288	3.7	2
13	Peeking under the Hood of Naive T Cells. <i>Cell Metabolism</i> , 2018 , 28, 801-802	24.6	2
12	An Fc-Small Molecule Conjugate for Targeted Inhibition of the Adenosine 2A Receptor. <i>ChemBioChem</i> , 2016 , 17, 1951-1960	3.8	1
11	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

10	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	o
9	Bringing IL-2 down to earth. <i>Blood</i> , 2007 , 109, 2671-2672	2.2	
8	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	
7	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	
6	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	
5	Leucine metabolism as a novel approach to improve T cell performance in managing cancer. <i>FASEB Journal</i> , 2011 , 25, 915.2	0.9	
4	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	
3	The cytosolic branched-chain aminotransferase (BCATc) regulates T cell activation via mTOR signaling pathway. <i>FASEB Journal</i> , 2012 , 26, 127.6	0.9	
2	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	
1	Cellular Metabolism Controls Lymphocyte Activation and Differentiation 2016 , 38-43		