

# Jeffrey C Rathmell

## List of Publications by Year in descending order

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Version: 2024-02-01

114  
papers

19,951  
citations

34105

52  
h-index

28297

105  
g-index

122  
all docs

122  
docs citations

122  
times ranked

28371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	Cutting Edge: Distinct Glycolytic and Lipid Oxidative Metabolic Programs Are Essential for Effector and Regulatory CD4+ T Cell Subsets. <i>Journal of Immunology</i> , 2011, 186, 3299-3303.	0.8	1,645
3	The CD28 Signaling Pathway Regulates Glucose Metabolism. <i>Immunity</i> , 2002, 16, 769-777.	14.3	1,201
4	Phosphoenolpyruvate Is a Metabolic Checkpoint of Anti-tumor T Cell Responses. <i>Cell</i> , 2015, 162, 1217-1228.	28.9	1,044
5	The Glucose Transporter Glut1 Is Selectively Essential for CD4 <sup>+</sup> T Cell Activation and Effector Function. <i>Cell Metabolism</i> , 2014, 20, 61-72.	16.2	876
6	Glucose Uptake Is Limiting in T Cell Activation and Requires CD28-Mediated Akt-Dependent and Independent Pathways. <i>Journal of Immunology</i> , 2008, 180, 4476-4486.	0.8	675
7	Metabolic programming and PDHK1 control CD4+ T cell subsets and inflammation. <i>Journal of Clinical Investigation</i> , 2015, 125, 194-207.	8.2	562
8	Cell-programmed nutrient partitioning in the tumour microenvironment. <i>Nature</i> , 2021, 593, 282-288.	27.8	491
9	Amino Acids Rather than Glucose Account for the Majority of Cell Mass in Proliferating Mammalian Cells. <i>Developmental Cell</i> , 2016, 36, 540-549.	7.0	479
10	Targeting Metabolism to Improve the Tumor Microenvironment for Cancer Immunotherapy. <i>Molecular Cell</i> , 2020, 78, 1019-1033.	9.7	450
11	MYC and MCL1 Cooperatively Promote Chemotherapy-Resistant Breast Cancer Stem Cells via Regulation of Mitochondrial Oxidative Phosphorylation. <i>Cell Metabolism</i> , 2017, 26, 633-647.e7.	16.2	449
12	Distinct Regulation of Th17 and Th1 Cell Differentiation by Glutaminase-Dependent Metabolism. <i>Cell</i> , 2018, 175, 1780-1795.e19.	28.9	445
13	Foxp3 and Toll-like receptor signaling balance Treg cell anabolic metabolism for suppression. <i>Nature Immunology</i> , 2016, 17, 1459-1466.	14.5	402
14	Metabolic pathways in T cell fate and function. <i>Trends in Immunology</i> , 2012, 33, 168-173.	6.8	356
15	Control of PI(3) kinase in Treg cells maintains homeostasis and lineage stability. <i>Nature Immunology</i> , 2015, 16, 188-196.	14.5	347
16	IL-7 promotes Glut1 trafficking and glucose uptake via STAT5-mediated activation of Akt to support T-cell survival. <i>Blood</i> , 2008, 111, 2101-2111.	1.4	336
17	Pharmacological blockade of ASCT2-dependent glutamine transport leads to antitumor efficacy in preclinical models. <i>Nature Medicine</i> , 2018, 24, 194-202.	30.7	303
18	mTORC1 and mTORC2 Kinase Signaling and Glucose Metabolism Drive Follicular Helper T Cell Differentiation. <i>Immunity</i> , 2016, 45, 540-554.	14.3	283

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19	Similarities and Distinctions of Cancer and Immune Metabolism in Inflammation and Tumors. <i>Cell Metabolism</i> , 2017, 26, 49-70.	16.2	268
20	Mitochondrial dysregulation and glycolytic insufficiency functionally impair CD8 T cells infiltrating human renal cell carcinoma. <i>JCI Insight</i> , 2017, 2, .	5.0	257
21	T cell metabolic fitness in antitumor immunity. <i>Trends in Immunology</i> , 2015, 36, 257-264.	6.8	237
22	Dysregulated metabolism contributes to oncogenesis. <i>Seminars in Cancer Biology</i> , 2015, 35, S129-S150.	9.6	225
23	Designing a broad-spectrum integrative approach for cancer prevention and treatment. <i>Seminars in Cancer Biology</i> , 2015, 35, S276-S304.	9.6	220
24	Efferocytosis induces a novel SLC program to promote glucose uptake and lactate release. <i>Nature</i> , 2018, 563, 714-718.	27.8	220
25	MYC Disrupts the Circadian Clock and Metabolism in Cancer Cells. <i>Cell Metabolism</i> , 2015, 22, 1009-1019.	16.2	217
26	Immunometabolism: From basic mechanisms to translation. <i>Immunological Reviews</i> , 2020, 295, 5-14.	6.0	208
27	Leptin Metabolically Licenses T Cells for Activation To Link Nutrition and Immunity. <i>Journal of Immunology</i> , 2014, 192, 136-144.	0.8	207
28	The Liver Kinase B1 Is a Central Regulator of T Cell Development, Activation, and Metabolism. <i>Journal of Immunology</i> , 2011, 187, 4187-4198.	0.8	202
29	AMPK Is Essential to Balance Glycolysis and Mitochondrial Metabolism to Control T-ALL Cell Stress and Survival. <i>Cell Metabolism</i> , 2016, 23, 649-662.	16.2	195
30	The tumor microenvironment as a metabolic barrier to effector T cells and immunotherapy. <i>ELife</i> , 2020, 9, .	6.0	168
31	Systematic identification of signaling pathways with potential to confer anticancer drug resistance. <i>Science Signaling</i> , 2014, 7, ra121.	3.6	163
32	A Predictive Model for Selective Targeting of the Warburg Effect through GAPDH Inhibition with a Natural Product. <i>Cell Metabolism</i> , 2017, 26, 648-659.e8.	16.2	154
33	The Transcription Factor Bhlhe40 Programs Mitochondrial Regulation of Resident CD8+ T Cell Fitness and Functionality. <i>Immunity</i> , 2019, 51, 491-507.e7.	14.3	148
34	Metabolic Barriers to T Cell Function in Tumors. <i>Journal of Immunology</i> , 2018, 200, 400-407.	0.8	144
35	Selective glutamine metabolism inhibition in tumor cells improves antitumor T lymphocyte activity in triple-negative breast cancer. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	144
36	IL-7 Is Essential for Homeostatic Control of T Cell Metabolism In Vivo. <i>Journal of Immunology</i> , 2010, 184, 3461-3469.	0.8	135

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37	Cell metabolism: An essential link between cell growth and apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 645-654.	4.1	133
38	High-fat diet-induced colonocyte dysfunction escalates microbiota-derived trimethylamine N-oxide. <i>Science</i> , 2021, 373, 813-818.	12.6	132
39	Antigen receptor control of methionine metabolism in T cells. <i>ELife</i> , 2019, 8, .	6.0	132
40	Metabolic Reprogramming towards Aerobic Glycolysis Correlates with Greater Proliferative Ability and Resistance to Metabolic Inhibition in CD8 versus CD4 T Cells. <i>PLoS ONE</i> , 2014, 9, e104104.	2.5	122
41	Chronic lymphocytic leukemia cells impair mitochondrial fitness in CD8+ T cells and impede CAR T-cell efficacy. <i>Blood</i> , 2019, 134, 44-58.	1.4	118
42	Differential glucose requirement in skin homeostasis and injury identifies a therapeutic target for psoriasis. <i>Nature Medicine</i> , 2018, 24, 617-627.	30.7	117
43	Suppression of Glut1 and Glucose Metabolism by Decreased Akt/mTORC1 Signaling Drives T Cell Impairment in B Cell Leukemia. <i>Journal of Immunology</i> , 2016, 197, 2532-2540.	0.8	110
44	Biochemical Underpinnings of Immune Cell Metabolic Phenotypes. <i>Immunity</i> , 2017, 46, 703-713.	14.3	107
45	Dysfunctional T cell metabolism in the tumor microenvironment. <i>Cytokine and Growth Factor Reviews</i> , 2017, 35, 7-14.	7.2	101
46	Impaired enolase 1 glycolytic activity restrains effector functions of tumor-infiltrating CD8 <sup>+</sup> T cells. <i>Science Immunology</i> , 2019, 4, .	11.9	95
47	Metabolic stress is a barrier to Epstein-Barr virus-mediated B-cell immortalization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E782-90.	7.1	94
48	Anabolism-Associated Mitochondrial Stasis Driving Lymphocyte Differentiation over Self-Renewal. <i>Cell Reports</i> , 2016, 17, 3142-3152.	6.4	90
49	A guide to interrogating immunometabolism. <i>Nature Reviews Immunology</i> , 2021, 21, 637-652.	22.7	87
50	MTHFD2 is a metabolic checkpoint controlling effector and regulatory T cell fate and function. <i>Immunity</i> , 2022, 55, 65-81.e9.	14.3	74
51	Single-cell analysis by mass cytometry reveals metabolic states of early-activated CD8 <sup>+</sup> T cells during the primary immune response. <i>Immunity</i> , 2021, 54, 829-844.e5.	14.3	68
52	GLUT1 Expression in Tumor-Associated Neutrophils Promotes Lung Cancer Growth and Resistance to Radiotherapy. <i>Cancer Research</i> , 2021, 81, 2345-2357.	0.9	65
53	Combination immunotherapy and radiotherapy causes an abscopal treatment response in a mouse model of castration resistant prostate cancer. , 2019, 7, 218.		64
54	The Complex Integration of T-cell Metabolism and Immunotherapy. <i>Cancer Discovery</i> , 2021, 11, 1636-1643.	9.4	64

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55	Fine tuning of immunometabolism for the treatment of rheumatic diseases. <i>Nature Reviews Rheumatology</i> , 2017, 13, 313-320.	8.0	58
56	Nutrients and the microenvironment to feed a T cell army. <i>Seminars in Immunology</i> , 2016, 28, 505-513.	5.6	57
57	Metabolism and autophagy in the immune system: immunometabolism comes of age. <i>Immunological Reviews</i> , 2012, 249, 5-13.	6.0	54
58	CD28 costimulation drives tumor-infiltrating T cell glycolysis to promote inflammation. <i>JCI Insight</i> , 2020, 5, .	5.0	52
59	A Glucose-to-Gene Link. <i>Science</i> , 2009, 324, 1021-1022.	12.6	51
60	Hedgehog Signaling Regulates Metabolism and Polarization of Mammary Tumor-Associated Macrophages. <i>Cancer Research</i> , 2021, 81, 5425-5437.	0.9	50
61	Fluorescence-based measurement of cystine uptake through xCT shows requirement for ROS detoxification in activated lymphocytes. <i>Journal of Immunological Methods</i> , 2016, 438, 51-58.	1.4	49
62	ER $\pm$ Signaling Increased IL-17A Production in Th17 Cells by Upregulating IL-23R Expression, Mitochondrial Respiration, and Proliferation. <i>Frontiers in Immunology</i> , 2019, 10, 2740.	4.8	45
63	Glycolysis-dependent histone deacetylase 4 degradation regulates inflammatory cytokine production. <i>Molecular Biology of the Cell</i> , 2014, 25, 3300-3307.	2.1	42
64	HIF-1 Alpha Regulates the Response of Primary Sarcomas to Radiation Therapy through a Cell Autonomous Mechanism. <i>Radiation Research</i> , 2015, 183, 594.	1.5	41
65	The therapeutic implications of immunosuppressive tumor aerobic glycolysis. <i>Cellular and Molecular Immunology</i> , 2022, 19, 46-58.	10.5	39
66	Microenvironmental influences on T cell immunity in cancer and inflammation. <i>Cellular and Molecular Immunology</i> , 2022, 19, 316-326.	10.5	38
67	Obesity, Immunity, and Cancer. <i>New England Journal of Medicine</i> , 2021, 384, 1160-1162.	27.0	36
68	Asymmetric PI3K Activity in Lymphocytes Organized by a PI3K-Mediated Polarity Pathway. <i>Cell Reports</i> , 2018, 22, 860-868.	6.4	31
69	Single-cell profiling of the antigen-specific response to BNT162b2 SARS-CoV-2 RNA vaccine. <i>Nature Communications</i> , 2022, 13, .	12.8	28
70	Mutant KRAS Exosomes Alter the Metabolic State of Recipient Colonic Epithelial Cells. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2018, 5, 627-629.e6.	4.5	27
71	Computational Immune Monitoring Reveals Abnormal Double-Negative T Cells Present across Human Tumor Types. <i>Cancer Immunology Research</i> , 2019, 7, 86-99.	3.4	27
72	MRI of tumor T cell infiltration in response to checkpoint inhibitor therapy. , 2020, 8, e000328.		25

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73	Metabolic Signaling Drives IFN- $\beta$ . <i>Cell Metabolism</i> , 2016, 24, 651-652.	16.2	24
74	Macrophages Promote Aortic Valve Cell Calcification and Alter STAT3 Splicing. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, e153-e165.	2.4	24
75	IgG-Immune Complexes Promote B Cell Memory by Inducing BAFF. <i>Journal of Immunology</i> , 2016, 196, 196-206.	0.8	23
76	BAFF promotes heightened BCR responsiveness and manifestations of chronic GVHD after allogeneic stem cell transplantation. <i>Blood</i> , 2021, 137, 2544-2557.	1.4	23
77	Metabolic Alterations Contribute to Enhanced Inflammatory Cytokine Production in <i>Irgm1</i> -deficient Macrophages. <i>Journal of Biological Chemistry</i> , 2017, 292, 4651-4662.	3.4	22
78	T Cell Metabolism. <i>Immunity</i> , 2011, 35, 845-846.	14.3	20
79	Combined deletion of <i>Glut1</i> and <i>Glut3</i> impairs lung adenocarcinoma growth. <i>ELife</i> , 2020, 9, .	6.0	18
80	Leptin Augments Antitumor Immunity in Obesity by Repolarizing Tumor-Associated Macrophages. <i>Journal of Immunology</i> , 2021, 207, 3122-3130.	0.8	18
81	CD4 T cells differentially express cellular machinery for serotonin signaling, synthesis, and metabolism. <i>International Immunopharmacology</i> , 2020, 88, 106922.	3.8	17
82	BET Inhibition Enhances the Antileukemic Activity of Low-dose Venetoclax in Acute Myeloid Leukemia. <i>Clinical Cancer Research</i> , 2021, 27, 598-607.	7.0	16
83	Targeting In Vivo Metabolic Vulnerabilities of Th2 and Th17 Cells Reduces Airway Inflammation. <i>Journal of Immunology</i> , 2021, 206, 1127-1139.	0.8	16
84	B-cell homeostasis: digital survival or analog growth?. <i>Immunological Reviews</i> , 2004, 197, 116-128.	6.0	14
85	A Spontaneous Deletion within the Desmoglein 3 Extracellular Domain of Mice Results in Hypomorphic Protein Expression, Immunodeficiency, and a Wasting Disease Phenotype. <i>American Journal of Pathology</i> , 2015, 185, 617-630.	3.8	14
86	Characterization of metabolic alterations of chronic lymphocytic leukemia in the lymph node microenvironment. <i>Blood</i> , 2022, 140, 630-643.	1.4	14
87	HIF1 $\alpha$ and HIF2 $\alpha$ Exert Distinct Nutrient Preferences in Renal Cells. <i>PLoS ONE</i> , 2014, 9, e98705.	2.5	13
88	PKCs Sweeten Cell Metabolism by Phosphorylation of <i>Glut1</i> . <i>Molecular Cell</i> , 2015, 58, 711-712.	9.7	13
89	Mitochondrial Homeostasis in AML and Gasping for Response in Resistance to BCL2 Blockade. <i>Cancer Discovery</i> , 2019, 9, 831-833.	9.4	13
90	Stimulating TAM-mediated anti-tumor immunity with mannose-decorated nanoparticles in ovarian cancer. <i>BMC Cancer</i> , 2022, 22, 497.	2.6	13

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91	Editorial overview: Metabolism of T cells: integrating nutrients, signals, and cell fate. <i>Current Opinion in Immunology</i> , 2017, 46, viii-xi.	5.5	12
92	Oligodeoxynucleotides ODN 2006 and M362 Exert Potent Adjuvant Effect through TLR-9/-6 Synergy to Exaggerate Mammaglobin-A Peptide Specific Cytotoxic CD8+T Lymphocyte Responses against Breast Cancer Cells. <i>Cancers</i> , 2019, 11, 672.	3.7	12
93	Macrophage-Derived MicroRNA-21 Drives Overwhelming Glycolytic and Inflammatory Response during Sepsis via Repression of the PGE2/IL-10 Axis. <i>Journal of Immunology</i> , 2021, 207, 902-912.	0.8	12
94	Cardiosphere-Derived Cells Demonstrate Metabolic Flexibility That Is Influenced by Adhesion Status. <i>JACC Basic To Translational Science</i> , 2017, 2, 543-560.	4.1	11
95	Clinical Features and Multiplatform Molecular Analysis Assist in Understanding Patient Response to Anti-PD-1/PD-L1 in Renal Cell Carcinoma. <i>Cancers</i> , 2021, 13, 1475.	3.7	10
96	Recent Metabolic Advances for Preventing and Treating Acute and Chronic Graft Versus Host Disease. <i>Frontiers in Immunology</i> , 2021, 12, 757836.	4.8	10
97	Filling a GAP(DH) in Caspase-Independent Cell Death. <i>Cell</i> , 2007, 129, 861-863.	28.9	9
98	Retinoic acid signaling acts as a rheostat to balance Treg function. , 2022, 19, 820-833.		8
99	AI Is "Always In Fashion" for T Cells. <i>Immunity</i> , 2016, 44, 11-13.	14.3	7
100	Integrative computational immunogenomic profiling of cortisol-secreting adrenocortical carcinoma. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 10061-10072.	3.6	6
101	Targeting Glycolysis in Alloreactive T Cells to Prevent Acute Graft-Versus-Host Disease While Preserving Graft-Versus-Leukemia Effect. <i>Frontiers in Immunology</i> , 2022, 13, 751296.	4.8	6
102	Ex Vivo High Salt Activated Tumor-Primed CD4+T Lymphocytes Exert a Potent Anti-Cancer Response. <i>Cancers</i> , 2021, 13, 1690.	3.7	5
103	Altered Mitochondrial Homeostasis during Systemic Lupus Erythematosus Impairs Neutrophil Extracellular Trap Formation Rendering Neutrophils Ineffective at Combating <i>Staphylococcus aureus</i> . <i>Journal of Immunology</i> , 2022, 208, 454-463.	0.8	5
104	Recipient-Derived BAFF and Alloantigen Synergistically Activate B Cells in Murine Chronic Gvhd. <i>Blood</i> , 2016, 128, 498-498.	1.4	4
105	Multiplatform computational analysis of mast cells in adrenocortical carcinoma tumor microenvironment. <i>Surgery</i> , 2022, 171, 111-118.	1.9	3
106	Systems Immunology Analyses of STAT1 Gain-of-Function Immune Phenotypes Reveal Heterogeneous Response to IL-6 and Broad Immunometabolic Roles for STAT1. <i>ImmunoHorizons</i> , 2022, 6, 447-464.	1.8	3
107	Low-Salt Diet Reduces Anti-CTLA4 Mediated Systemic Immune-Related Adverse Events while Retaining Therapeutic Efficacy against Breast Cancer. <i>Biology</i> , 2022, 11, 810.	2.8	2
108	Linking Microenvironmental Signals to Metabolic Switches and Drug Responses in Chronic Lymphocytic Leukemia. <i>Blood</i> , 2019, 134, 479-479.	1.4	1

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109	Akt and mTOR Pathways Differentially Regulate the Development of Natural and Inducible IL-17-Producing CD4+ T Cells. Blood, 2012, 120, 838-838.	1.4	0
110	The Metabolic Signature of CLL: Enhanced Glucose Metabolism in A Subset of High-Risk CLL Patients. Blood, 2012, 120, 1785-1785.	1.4	0
111	Acute and Chronic Lymphocytic Leukemia Induces Exhaustion and Suppresses Metabolic Reprogramming in T Cell Activation. Blood, 2014, 124, 4121-4121.	1.4	0
112	The BET Inhibitor INCB054329 Primes AML Cells for Venetoclax-Induced Apoptosis. Blood, 2018, 132, 4074-4074.	1.4	0
113	T Cell Metabolism and Memory. Blood, 2018, 132, SCI-6-SCI-6.	1.4	0
114	906â€¦Immunogenomic evaluation of clear cell renal carcinoma uncovers HK3 as a myeloid specific metabolic enzyme. , 2021, 9, A951-A951.		0