

# Russell G Jones

## List of Publications by Year in descending order

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101  
papers

24,018  
citations

17405

63  
h-index

35952

97  
g-index

107  
all docs

107  
docs citations

107  
times ranked

32384  
citing authors

#	ARTICLE	IF	CITATIONS
1	Posttranscriptional Control of T Cell Effector Function by Aerobic Glycolysis. <i>Cell</i> , 2013, 153, 1239-1251.	13.5	1,715
2	AMP-Activated Protein Kinase Induces a p53-Dependent Metabolic Checkpoint. <i>Molecular Cell</i> , 2005, 18, 283-293.	4.5	1,431
3	Enhancing CD8 T-cell memory by modulating fatty acid metabolism. <i>Nature</i> , 2009, 460, 103-107.	13.7	1,316
4	Fueling Immunity: Insights into Metabolism and Lymphocyte Function. <i>Science</i> , 2013, 342, 1242-454.	6.0	1,070
5	Function of PI3K in Thymocyte Development, T Cell Activation, and Neutrophil Migration. <i>Science</i> , 2000, 287, 1040-1046.	6.0	1,003
6	Toll-like receptor-induced changes in glycolytic metabolism regulate dendritic cell activation. <i>Blood</i> , 2010, 115, 4742-4749.	0.6	998
7	Itaconate Links Inhibition of Succinate Dehydrogenase with Macrophage Metabolic Remodeling and Regulation of Inflammation. <i>Cell Metabolism</i> , 2016, 24, 158-166.	7.2	944
8	Tumor suppressors and cell metabolism: a recipe for cancer growth. <i>Genes and Development</i> , 2009, 23, 537-548.	2.7	868
9	TLR-driven early glycolytic reprogramming via the kinases TBK1-IRAK4 supports the anabolic demands of dendritic cell activation. <i>Nature Immunology</i> , 2014, 15, 323-332.	7.0	861
10	Systemic Treatment with the Antidiabetic Drug Metformin Selectively Impairs p53-Deficient Tumor Cell Growth. <i>Cancer Research</i> , 2007, 67, 6745-6752.	0.4	835
11	AMPK Is a Negative Regulator of the Warburg Effect and Suppresses Tumor Growth In Vivo. <i>Cell Metabolism</i> , 2013, 17, 113-124.	7.2	754
12	Hypoxia-Induced Energy Stress Regulates mRNA Translation and Cell Growth. <i>Molecular Cell</i> , 2006, 21, 521-531.	4.5	541
13	A roadmap for interpreting 13 C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , 2015, 34, 189-201.	3.3	513
14	The Energy Sensor AMPK Regulates T Cell Metabolic Adaptation and Effector Responses In Vivo. <i>Immunity</i> , 2015, 42, 41-54.	6.6	505
15	PDK1-Dependent Metabolic Reprogramming Dictates Metastatic Potential in Breast Cancer. <i>Cell Metabolism</i> , 2015, 22, 577-589.	7.2	430
16	Serine Is an Essential Metabolite for Effector T Cell Expansion. <i>Cell Metabolism</i> , 2017, 25, 345-357.	7.2	429
17	CD8 memory T cells have a bioenergetic advantage that underlies their rapid recall ability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14336-14341.	3.3	428
18	AMPK Maintains Cellular Metabolic Homeostasis through Regulation of Mitochondrial Reactive Oxygen Species. <i>Cell Reports</i> , 2017, 21, 1-9.	2.9	405

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19	Carnitine palmitoyltransferase 1C promotes cell survival and tumor growth under conditions of metabolic stress. <i>Genes and Development</i> , 2011, 25, 1041-1051.	2.7	386
20	The eEF2 Kinase Confers Resistance to Nutrient Deprivation by Blocking Translation Elongation. <i>Cell</i> , 2013, 153, 1064-1079.	13.5	348
21	The glucose dependence of Akt-transformed cells can be reversed by pharmacologic activation of fatty acid $\beta$ -oxidation. <i>Oncogene</i> , 2005, 24, 4165-4173.	2.6	342
22	Signaling Kinase AMPK Activates Stress-Promoted Transcription via Histone H2B Phosphorylation. <i>Science</i> , 2010, 329, 1201-1205.	6.0	320
23	Protein Kinase B Regulates T Lymphocyte Survival, Nuclear Factor $\kappa$ B Activation, and Bcl-XL Levels in Vivo. <i>Journal of Experimental Medicine</i> , 2000, 191, 1721-1734.	4.2	309
24	Revving the Engine: Signal Transduction Fuels T Cell Activation. <i>Immunity</i> , 2007, 27, 173-178.	6.6	307
25	The AMP-activated protein kinase (AMPK) and cancer: Many faces of a metabolic regulator. <i>Cancer Letters</i> , 2015, 356, 165-170.	3.2	289
26	Etomoxir Actions on Regulatory and Memory T Cells Are Independent of Cpt1a-Mediated Fatty Acid Oxidation. <i>Cell Metabolism</i> , 2018, 28, 504-515.e7.	7.2	264
27	Memory CD8 + T Cells Require Increased Concentrations of Acetate Induced by Stress for Optimal Function. <i>Immunity</i> , 2016, 44, 1312-1324.	6.6	257
28	Metabolic Profiling Using Stable Isotope Tracing Reveals Distinct Patterns of Glucose Utilization by Physiologically Activated CD8+ T Cells. <i>Immunity</i> , 2019, 51, 856-870.e5.	6.6	250
29	Metabolic Plasticity as a Determinant of Tumor Growth and Metastasis. <i>Cancer Research</i> , 2016, 76, 5201-5208.	0.4	214
30	Loss of the tumor suppressor LKB1 promotes metabolic reprogramming of cancer cells via HIF-1 $\alpha$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2554-2559.	3.3	212
31	X-ray Crystal Structure of C3d: A C3 Fragment and Ligand for Complement Receptor 2. <i>Science</i> , 1998, 280, 1277-1281.	6.0	209
32	Cbl-b Is a Negative Regulator of Receptor Clustering and Raft Aggregation in T Cells. <i>Immunity</i> , 2000, 13, 463-473.	6.6	205
33	The Liver Kinase B1 Is a Central Regulator of T Cell Development, Activation, and Metabolism. <i>Journal of Immunology</i> , 2011, 187, 4187-4198.	0.4	202
34	Mitochondrial Phosphoenolpyruvate Carboxykinase Regulates Metabolic Adaptation and Enables Glucose-Independent Tumor Growth. <i>Molecular Cell</i> , 2015, 60, 195-207.	4.5	200
35	Oncogenic Myc Induces Expression of Glutamine Synthetase through Promoter Demethylation. <i>Cell Metabolism</i> , 2015, 22, 1068-1077.	7.2	189
36	Immunometabolic Interplay in the Tumor Microenvironment. <i>Cancer Cell</i> , 2021, 39, 28-37.	7.7	183

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37	Methionine Metabolism Shapes T Helper Cell Responses through Regulation of Epigenetic Reprogramming. <i>Cell Metabolism</i> , 2020, 31, 250-266.e9.	7.2	182
38	MenTORing Immunity: mTOR Signaling in the Development and Function of Tissue-Resident Immune Cells. <i>Immunity</i> , 2017, 46, 730-742.	6.6	179
39	Metformin Antagonizes Cancer Cell Proliferation by Suppressing Mitochondrial-Dependent Biosynthesis. <i>PLoS Biology</i> , 2015, 13, e1002309.	2.6	176
40	Glycolytic metabolism is essential for CCR7 oligomerization and dendritic cell migration. <i>Nature Communications</i> , 2018, 9, 2463.	5.8	144
41	Immature Low-Density Neutrophils Exhibit Metabolic Flexibility that Facilitates Breast Cancer Liver Metastasis. <i>Cell Reports</i> , 2019, 27, 3902-3915.e6.	2.9	144
42	Negative Regulation of T Cell Proliferation and Interleukin 2 Production by the Serine Threonine Kinase Gsk-3. <i>Journal of Experimental Medicine</i> , 2000, 192, 99-104.	4.2	142
43	The oncometabolite 2-hydroxyglutarate activates the mTOR signalling pathway. <i>Nature Communications</i> , 2016, 7, 12700.	5.8	134
44	PGC-1 $\alpha$ supports glutamine metabolism in breast cancer. <i>Cancer &amp; Metabolism</i> , 2013, 1, 22.	2.4	130
45	CD28-dependent Activation of Protein Kinase B/Akt Blocks Fas-mediated Apoptosis by Preventing Death-inducing Signaling Complex Assembly. <i>Journal of Experimental Medicine</i> , 2002, 196, 335-348.	4.2	128
46	The tumor suppressor folliculin regulates AMPK-dependent metabolic transformation. <i>Journal of Clinical Investigation</i> , 2014, 124, 2640-2650.	3.9	124
47	Differential effects of AMPK agonists on cell growth and metabolism. <i>Oncogene</i> , 2015, 34, 3627-3639.	2.6	121
48	Itaconate confers tolerance to late NLRP3 inflammasome activation. <i>Cell Reports</i> , 2021, 34, 108756.	2.9	105
49	The role of AMPK in T cell metabolism and function. <i>Current Opinion in Immunology</i> , 2017, 46, 45-52.	2.4	103
50	Fatty acid metabolism in CD8 <sup>+</sup> T cell memory: Challenging current concepts. <i>Immunological Reviews</i> , 2018, 283, 213-231.	2.8	103
51	Folliculin Regulates Ampk-Dependent Autophagy and Metabolic Stress Survival. <i>PLoS Genetics</i> , 2014, 10, e1004273.	1.5	102
52	Hypoxia-inducible factors in CD4 <sup>+</sup> T cells promote metabolism, switch cytokine secretion, and T cell help in humoral immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8975-8984.	3.3	100
53	The Proapoptotic Factors Bax and Bak Regulate T Cell Proliferation through Control of Endoplasmic Reticulum Ca <sup>2+</sup> Homeostasis. <i>Immunity</i> , 2007, 27, 268-280.	6.6	92
54	Oxidative metabolism enables <i>Salmonella</i> evasion of the NLRP3 inflammasome. <i>Journal of Experimental Medicine</i> , 2014, 211, 653-668.	4.2	92

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55	The Transcription Factors TFEB and TFE3 Link the FLCN-AMPK Signaling Axis to Innate Immune Response and Pathogen Resistance. <i>Cell Reports</i> , 2019, 26, 3613-3628.e6.	2.9	91
56	PKC $\delta$ Signals Activation versus Tolerance In Vivo. <i>Journal of Experimental Medicine</i> , 2004, 199, 743-752.	4.2	82
57	Depletion of the novel p53-target gene carnitine palmitoyltransferase 1C delays tumor growth in the neurofibromatosis type I tumor model. <i>Cell Death and Differentiation</i> , 2013, 20, 659-668.	5.0	81
58	GAM: a web-service for integrated transcriptional and metabolic network analysis. <i>Nucleic Acids Research</i> , 2016, 44, W194-W200.	6.5	81
59	Expression of Active Protein Kinase B in T Cells Perturbs Both T and B Cell Homeostasis and Promotes Inflammation. <i>Journal of Immunology</i> , 2001, 167, 42-48.	0.4	80
60	A Kinome RNAi Screen Identified AMPK as Promoting Poxvirus Entry through the Control of Actin Dynamics. <i>PLoS Pathogens</i> , 2010, 6, e1000954.	2.1	79
61	The TGF- $\beta$ 2-Smad3 pathway inhibits CD28-dependent cell growth and proliferation of CD4 T cells. <i>Genes and Immunity</i> , 2013, 14, 115-126.	2.2	74
62	Translational control in the tumor microenvironment promotes lung metastasis: Phosphorylation of eIF4E in neutrophils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2202-E2209.	3.3	73
63	Polarizing Macrophages through Reprogramming of Glucose Metabolism. <i>Cell Metabolism</i> , 2012, 15, 793-795.	7.2	69
64	<sc>LKB</sc>1 and <sc>AMPK</sc>: central regulators of lymphocyte metabolism and function. <i>Immunological Reviews</i> , 2012, 249, 59-71.	2.8	65
65	Translational and HIF-1 $\alpha$ -Dependent Metabolic Reprogramming Underpin Metabolic Plasticity and Responses to Kinase Inhibitors and Biguanides. <i>Cell Metabolism</i> , 2018, 28, 817-832.e8.	7.2	61
66	The miR-17 $\sim$ 1/4 92 microRNA Cluster Is a Global Regulator of Tumor Metabolism. <i>Cell Reports</i> , 2016, 16, 1915-1928.	2.9	58
67	The <sc>AMPK</sc> agonist 5- $\alpha$ -aminoimidazole-4- $\alpha$ -carboxamide ribonucleotide (AICAR), but not metformin, prevents inflammation-associated cachectic muscle wasting. <i>EMBO Molecular Medicine</i> , 2018, 10, .	3.3	58
68	Mitochondrial cyclophilin D regulates T cell metabolic responses and disease tolerance to tuberculosis. <i>Science Immunology</i> , 2018, 3, .	5.6	57
69	p53 mediates loss of hematopoietic stem cell function and lymphopenia in Mym1 deficiency. <i>Blood</i> , 2015, 125, 2344-2348.	0.6	53
70	Attenuation of AMPK signaling by ROQUIN promotes T follicular helper cell formation. <i>ELife</i> , 2015, 4, .	2.8	52
71	CD4+ and CD8+ T Cell Survival Is Regulated Differentially by Protein Kinase C $\delta$ , c-Rel, and Protein Kinase B. <i>Journal of Immunology</i> , 2007, 178, 2932-2939.	0.4	49
72	LKB1 deficiency in T cells promotes the development of gastrointestinal polyposis. <i>Science</i> , 2018, 361, 406-411.	6.0	47

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73	1-Methylnicotinamide is an immune regulatory metabolite in human ovarian cancer. <i>Science Advances</i> , 2021, 7, .	4.7	46
74	Stomatin-like Protein 2 Deficiency in T Cells Is Associated with Altered Mitochondrial Respiration and Defective CD4+ T Cell Responses. <i>Journal of Immunology</i> , 2012, 189, 4349-4360.	0.4	44
75	LKB1 is a central regulator of tumor initiation and pro-growth metabolism in ErbB2-mediated breast cancer. <i>Cancer &amp; Metabolism</i> , 2013, 1, 18.	2.4	44
76	Activation of Peroxisome Proliferator-Activated Receptors $\alpha$ and $\beta$ Synergizes with Inflammatory Signals to Enhance Adoptive Cell Therapy. <i>Cancer Research</i> , 2019, 79, 445-451.	0.4	43
77	NF- $\kappa$ B Couples Protein Kinase B/Akt Signaling to Distinct Survival Pathways and the Regulation of Lymphocyte Homeostasis In Vivo. <i>Journal of Immunology</i> , 2005, 175, 3790-3799.	0.4	42
78	Structure of an AMPK complex in an inactive, ATP-bound state. <i>Science</i> , 2021, 373, 413-419.	6.0	42
79	Differential Control of CD28-Regulated In Vivo Immunity by the E3 Ligase Cbl-b. <i>Journal of Immunology</i> , 2005, 174, 1472-1478.	0.4	41
80	SDHA gain-of-function engages inflammatory mitochondrial retrograde signaling via KEAP1- $\kappa$ Nrf2. <i>Nature Immunology</i> , 2019, 20, 1311-1321.	7.0	39
81	Memory CD8+ T Cells Balance Pro- and Anti-inflammatory Activity by Reprogramming Cellular Acetate Handling at Sites of Infection. <i>Cell Metabolism</i> , 2020, 32, 457-467.e5.	7.2	37
82	Signals involved in thymocyte positive and negative selection. <i>Seminars in Immunology</i> , 1999, 11, 263-272.	2.7	32
83	Rubbing salt in the wound. <i>Nature</i> , 2013, 496, 437-439.	13.7	32
84	Amino Acids Fuel T Cell-Mediated Inflammation. <i>Immunity</i> , 2014, 40, 635-637.	6.6	28
85	Immunometabolism in the Tumor Microenvironment. <i>Annual Review of Cancer Biology</i> , 2021, 5, 137-159.	2.3	28
86	Glucose-dependent partitioning of arginine to the urea cycle protects $\beta$ 2-cells from inflammation. <i>Nature Metabolism</i> , 2020, 2, 432-446.	5.1	27
87	Oncogenic Biogenesis of pri-miR-17 <sup>~1</sup> /492 Reveals Hierarchy and Competition among Polycistronic MicroRNAs. <i>Molecular Cell</i> , 2019, 75, 340-356.e10.	4.5	26
88	LKB1 couples glucose metabolism to insulin secretion in mice. <i>Diabetologia</i> , 2015, 58, 1513-1522.	2.9	22
89	Interrogating in vivo T-cell metabolism in mice using stable isotope labeling metabolomics and rapid cell sorting. <i>Nature Protocols</i> , 2021, 16, 4494-4521.	5.5	20
90	Potential Benefit of the Charge-Stabilized Nanostructure Saline RNS60 for Myelin Maintenance and Repair. <i>Scientific Reports</i> , 2016, 6, 30020.	1.6	19

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91	Repression of LKB1 by miR-17 <sup>a</sup> /492 Sensitizes MYC-Dependent Lymphoma to Biguanide Treatment. Cell Reports Medicine, 2020, 1, 100014.	3.3	16
92	The roles, mechanisms, and controversies of autophagy in mammalian biology. F1000 Biology Reports, 2009, 1, 68.	4.0	13
93	Creatine transport and creatine kinase activity is required for CD8+ T cell immunity. Cell Reports, 2022, 38, 110446.	2.9	11
94	Methotrexate elicits pro-respiratory and anti-growth effects by promoting AMPK signaling. Scientific Reports, 2020, 10, 7838.	1.6	10
95	(TORC)ing up purine biosynthesis. Science, 2016, 351, 670-671.	6.0	8
96	MicroRNA-9 Fine-Tunes Dendritic Cell Function by Suppressing Negative Regulators in a Cell-Type-Specific Manner. Cell Reports, 2020, 31, 107585.	2.9	8
97	Factors Contributing to Autoimmune Disease. Advances in Experimental Medicine and Biology, 2001, 490, 7-19.	0.8	0
98	Abstract 491: Selective killing of oncogenically transformed cells by arsenic trioxide and trolox. , 2014, , .		0
99	Abstract 3367: Understanding the role of metabolic reprogramming in breast cancer progression and metastasis. , 2014, , .		0
100	Abstract IA22: Regulation of metabolic plasticity in effector T cells. , 2015, , .		0
101	Intestinal Epithelial AMPK Does Not Protect Against High Dose DSS-Induced Colitis in Mice. FASEB Journal, 2018, 32, 873.10.	0.2	0