Luke A J O neill

List of Publications by Citations

Source: https://exaly.com/author-pdf/4470465/luke-a-j-oneill-publications-by-citations.pdf
Version: 2024-04-26

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.

119 papers	19,496 citations	53 h-index	139 g-index
143 ext. papers	24,910 ext. citations	16.5 avg, IF	7.72 L-index

#	Paper	IF	Citations
119	The family of five: TIR-domain-containing adaptors in Toll-like receptor signalling. *Nature Reviews Immunology*, **2007**, 7, 353-64	36.5	1947
118	A small-molecule inhibitor of the NLRP3 inflammasome for the treatment of inflammatory diseases. *Nature Medicine*, **2015**, 21, 248-55	50.5	1354
117	A guide to immunometabolism for immunologists. *Nature Reviews Immunology*, **2016**, 16, 553-65	36.5	1275
116	The history of Toll-like receptors - redefining innate immunity. *Nature Reviews Immunology*, **2013**, 13, 453-60	36.5	1077
115	mTOR- and HIF-1-mediated aerobic glycolysis as metabolic basis for trained immunity. *Science*, **2014**, 345, 1250684	33.3	1020
114	Succinate Dehydrogenase Supports Metabolic Repurposing of Mitochondria to Drive Inflammatory Macrophages. *Cell*, **2016**, 167, 457-470.e13	56.2	878
113	Immunometabolism governs dendritic cell and macrophage function. *Journal of Experimental Medicine*, **2016**, 213, 15-23	16.6	813
112	Metabolism of inflammation limited by AMPK and pseudo-starvation. *Nature*, **2013**, 493, 346-55	50.4	765
111	A long noncoding RNA mediates both activation and repression of immune response genes. *Science* , **2013**, 341, 789-92	33.3	698
110	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. *Nature*, **2018**, 556, 113-117	50.4	609
109	Pyruvate kinase M2 regulates Hif-1-activity and IL-1-induction and is a critical determinant of the warburg effect in LPS-activated macrophages. *Cell Metabolism*, **2015**, 21, 65-80	24.6	565
108	How Toll-like receptors signal: what we know and what we don't know. *Current Opinion in Immunology*, **2006**, 18, 3-9	7.8	518
107	The interleukin-1 receptor/Toll-like receptor superfamily: 10 years of progress. *Immunological Reviews*, **2008**, 226, 10-8	11.3	493
106	Metabolic reprograming in macrophage polarization. *Frontiers in Immunology*, **2014**, 5, 420	8.4	468
105	Mitochondria are the powerhouses of immunity. *Nature Immunology*, **2017**, 18, 488-498	19.1	434
104	Circadian clock proteins and immunity. *Immunity*, **2014**, 40, 178-86	32.3	339
103	Therapeutic targeting of Toll-like receptors for infectious and inflammatory diseases and cancer. *Pharmacological Reviews*, **2009**, 61, 177-97	22.5	330

102	Succinate: a metabolic signal in inflammation. *Trends in Cell Biology*, **2014**, 24, 313-20	18.3	323
101	T helper 1 immunity requires complement-driven NLRP3 inflammasome activity in CD4+ T cells. *Science*, **2016**, 352, aad1210	33.3	268
100	Myocardial ischemia/reperfusion injury is mediated by leukocytic toll-like receptor-2 and reduced by systemic administration of a novel anti-toll-like receptor-2 antibody. *Circulation*, **2010**, 121, 80-90	16.7	267
99	BCG-induced trained immunity: can it offer protection against COVID-19?. *Nature Reviews Immunology*, **2020**, 20, 335-337	36.5	256
98	Role for NLRP3 Inflammasome-mediated, IL-1β-Dependent Responses in Severe, Steroid-Resistant Asthma. *American Journal of Respiratory and Critical Care Medicine*, **2017**, 196, 283-297	10.2	206
97	Myeloid-derived miR-223 regulates intestinal inflammation via repression of the NLRP3 inflammasome. *Journal of Experimental Medicine*, **2017**, 214, 1737-1752	16.6	205
96	New insights into the regulation of TLR signaling. *Journal of Leukocyte Biology*, **2006**, 80, 220-6	6.5	185
95	Metformin Inhibits the Production of Reactive Oxygen Species from NADH:Ubiquinone Oxidoreductase to Limit Induction of Interleukin-1β (IL-1β) and Boosts Interleukin-10 (IL-10) in Lipopolysaccharide (LPS)-activated Macrophages. *Journal of Biological Chemistry*, **2015**, 290, 20348-59	5.4	184
94	Circadian control of innate immunity in macrophages by miR-155 targeting Bmal1. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7231-6	11.5	183
93	The NLRP3 inflammasome functions as a driver of the myelodysplastic syndrome phenotype. *Blood*, **2016**, 128, 2960-2975	2.2	162
92	Itaconate: the poster child of metabolic reprogramming in macrophage function. *Nature Reviews Immunology*, **2019**, 19, 273-281	36.5	158
91	Coupling Krebs cycle metabolites to signalling in immunity and cancer. *Nature Metabolism*, **2019**, 1, 16-33	14.6	148
90	Metabolic regulation of NLRP3. *Immunological Reviews*, **2018**, 281, 88-98	11.3	147
89	Therapeutic targeting of Toll-like receptors for inflammatory and infectious diseases. *Current Opinion in Pharmacology*, **2003**, 3, 396-403	5.1	138
88	Inflammasomes in inflammatory disorders: the role of TLRs and their interactions with NLRs. *Seminars in Immunopathology*, **2007**, 29, 239-48	12	132
87	Krebs Cycle Reimagined: The Emerging Roles of Succinate and Itaconate as Signal Transducers. *Cell*, **2018**, 174, 780-784	56.2	131
86	The Cellular and Molecular Basis of Translational Immunometabolism. *Immunity*, **2015**, 43, 421-34	32.3	123
85	Targeting immunometabolism as an anti-inflammatory strategy. *Cell Research*, **2020**, 30, 300-314	24.7	119

84	The inflammasome in atherosclerosis and type 2 diabetes. *Science Translational Medicine*, **2011**, 3, 81ps17	17.5	118
83	Toll-like receptors and chronic inflammation in rheumatic diseases: new developments. *Nature Reviews Rheumatology*, **2016**, 12, 344-57	8.1	114
82	A broken krebs cycle in macrophages. *Immunity*, **2015**, 42, 393-4	32.3	113
81	Circadian clock protein BMAL1 regulates IL-1β in macrophages via NRF2. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8460-E8468	11.5	109
80	Biochemical regulation of the inflammasome. *Critical Reviews in Biochemistry and Molecular Biology*, **2012**, 47, 424-43	8.7	100
79	The Immunomodulatory Metabolite Itaconate Modifies NLRP3 and Inhibits Inflammasome Activation. *Cell Metabolism*, **2020**, 32, 468-478.e7	24.6	86
78	Inflammasomes in the lung. *Molecular Immunology*, **2017**, 86, 44-55	4.3	85
77	Trained immunity, tolerance, priming and differentiation: distinct immunological processes. *Nature Immunology*, **2021**, 22, 2-6	19.1	85
76	Krebs Cycle Reborn in Macrophage Immunometabolism. *Annual Review of Immunology*, **2020**, 38, 289-313	34.7	83
75	Endosomal NOX2 oxidase exacerbates virus pathogenicity and is a target for antiviral therapy. *Nature Communications*, **2017**, 8, 69	17.4	75
74	Treatment with OPN-305, a humanized anti-Toll-Like receptor-2 antibody, reduces myocardial ischemia/reperfusion injury in pigs. *Circulation: Cardiovascular Interventions*, **2012**, 5, 279-87	6	75
73	The Role of HIF in Immunity and Inflammation. *Cell Metabolism*, **2020**, 32, 524-536	24.6	71
72	A critical role for citrate metabolism in LPS signalling. *Biochemical Journal*, **2011**, 438, e5-6	3.8	70
71	The intracellular chloride channel proteins CLIC1 and CLIC4 induce IL-1β transcription and activate the NLRP3 inflammasome. *Journal of Biological Chemistry*, **2017**, 292, 12077-12087	5.4	67
70	The Immunomodulatory Potential of the Metabolite Itaconate. *Trends in Immunology*, **2019**, 40, 687-698	14.4	65
69	The role of Ets2 transcription factor in the induction of microRNA-155 (miR-155) by lipopolysaccharide and its targeting by interleukin-10. *Journal of Biological Chemistry*, **2014**, 289, 4316-25	5.4	65
68	Loss of the molecular clock in myeloid cells exacerbates T cell-mediated CNS autoimmune disease. *Nature Communications*, **2017**, 8, 1923	17.4	61
67	The Induction of Pro-IL-1β by Lipopolysaccharide Requires Endogenous Prostaglandin E Production. *Journal of Immunology*, **2017**, 198, 3558-3564	5.3	53

66	The emerging role of metabolic regulation in the functioning of Toll-like receptors and the NOD-like receptor Nlrp3. *FEBS Letters*, **2011**, 585, 1568-72	3.8	53
65	Glutathione transferase omega 1 is required for the lipopolysaccharide-stimulated induction of NADPH oxidase 1 and the production of reactive oxygen species in macrophages. *Free Radical Biology and Medicine*, **2014**, 73, 318-27	7.8	50
64	Cytokine-like Roles for Metabolites in Immunity. *Molecular Cell*, **2020**, 78, 814-823	17.6	46
63	The GOLD domain-containing protein TMED7 inhibits TLR4 signalling from the endosome upon LPS stimulation. *Nature Communications*, **2012**, 3, 707	17.4	44
62	GSTO1-1 modulates metabolism in macrophages activated through the LPS and TLR4 pathway. *Journal of Cell Science*, **2015**, 128, 1982-90	5.3	42
61	The RNA-binding protein Tristetraprolin (TTP) is a critical negative regulator of the NLRP3 inflammasome. *Journal of Biological Chemistry*, **2017**, 292, 6869-6881	5.4	39
60	A vaccine for colorectral cancer. *Trends in Immunology*, **2001**, 22, 354	14.4	38
59	Bruton's tyrosine kinase mediates the synergistic signalling between TLR9 and the B cell receptor by regulating calcium and calmodulin. *PLoS ONE*, **2013**, 8, e74103	3.7	36
58	Trypanosoma brucei metabolite indolepyruvate decreases HIF-1α and glycolysis in macrophages as a mechanism of innate immune evasion. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E7778-E7787	11.5	35
57	Glutathione Transferase Omega-1 Regulates NLRP3 Inflammasome Activation through NEK7 Deglutathionylation. *Cell Reports*, **2019**, 29, 151-161.e5	10.6	34
56	Mal and MyD88: adapter proteins involved in signal transduction by Toll-like receptors. *Journal of Endotoxin Research*, **2003**, 9, 55-9		34
55	Glycolytic reprogramming by TLRs in dendritic cells. *Nature Immunology*, **2014**, 15, 314-5	19.1	33
54	The circadian protein BMAL1 in myeloid cells is a negative regulator of allergic asthma. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2017**, 312, L855-L860	5.8	32
53	A Potent Anti-Inflammatory Response in Bat Macrophages May Be Linked to Extended Longevity and Viral Tolerance. *Acta Chiropterologica*, **2017**, 19, 219-228	1	29
52	The MyD88+ phenotype is an adverse prognostic factor in epithelial ovarian cancer. *PLoS ONE*, **2014** , 9, e100816	3.7	29
51	Spontaneous atopic dermatitis in mice with a defective skin barrier is independent of ILC2 and mediated by IL-1α. *Allergy: European Journal of Allergy and Clinical Immunology*, **2019**, 74, 1920-1933	9.3	28
50	Solution structure of the TLR adaptor MAL/TIRAP reveals an intact BB loop and supports MAL Cys91 glutathionylation for signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E6480-E6489	11.5	28
49	Caspase-11 promotes allergic airway inflammation. *Nature Communications*, **2020**, 11, 1055	17.4	26

48	Camelpox virus encodes a schlafen-like protein that affects orthopoxvirus virulence. *Journal of General Virology*, **2007**, 88, 1667-1676	4.9	26
47	A Metabolic Roadblock in Inflammatory Macrophages. *Cell Reports*, **2016**, 17, 625-626	10.6	26
46	GSTO1-1 plays a pro-inflammatory role in models of inflammation, colitis and obesity. *Scientific Reports*, **2017**, 7, 17832	4.9	25
45	Loss of MicroRNA-21 Influences the Gut Microbiota, Causing Reduced Susceptibility in a Murine Model of Colitis. *Journal of Crohn's and Colitis*, **2018**, 12, 835-848	1.5	24
44	A Common Variant in the Adaptor Mal Regulates Interferon Gamma Signaling. *Immunity*, **2016**, 44, 368-79	32.3	23
43	Cardiolipin and the Nlrp3 inflammasome. *Cell Metabolism*, **2013**, 18, 610-2	24.6	19
42	The powerstroke and camshaft of the RIG-I antiviral RNA detection machine. *Cell*, **2011**, 147, 259-61	56.2	19
41	Distinct mechanisms for induction and tolerance regulate the immediate early genes encoding interleukin 1β and tumor necrosis factor α. *PLoS ONE*, **2013**, 8, e70622	3.7	18
40	Glutathione and Glutathione Transferase Omega 1 as Key Posttranslational Regulators in Macrophages. *Microbiology Spectrum*, **2017**, 5,	8.9	15
39	How Low Cholesterol Is Good for Anti-viral Immunity. *Cell*, **2015**, 163, 1572-4	56.2	14
38	Dimethyl fumarate: targeting glycolysis to treat MS. *Cell Research*, **2018**, 28, 613-615	24.7	14
37	Biochemistry: succinate strikes. *Nature*, **2014**, 515, 350-1	50.4	13
36	Influenza A virus causes maternal and fetal pathology via innate and adaptive vascular inflammation in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 24964-24973	11.5	12
35	Immunity's Early-Warning System. *Scientific American*, **2005**, 292, 38-45	0.5	11
34	"Transflammation": when innate immunity meets induced pluripotency. *Cell*, **2012**, 151, 471-3	56.2	10
33	Staurosporine, but not Ro 31-8220, induces interleukin 2 production and synergizes with interleukin 1alpha in EL4 thymoma cells. *Biochemical Journal*, **1997**, 325 (Pt 1), 39-45	3.8	10
32	Vitamin C inhibits NF kappa B activation in endothelial cells. *Biochemical Society Transactions*, **1997**, 25, 131S	5.1	10
31	Mechanism of NF kappa B activation by interleukin-1 and tumour necrosis factor in endothelial cells. *Biochemical Society Transactions*, **1996**, 24, 2S	5.1	8

30	Targeting immunometabolism to treat COVID-19. *Immunotherapy Advances*, **2021**, 1, ltab013		8
29	How should we talk about metabolism?. *Nature Immunology*, **2020**, 21, 713-715	19.1	7
28	GOTcha: lncRNA-ACOD1 targets metabolism during viral infection. *Cell Research*, **2018**, 28, 137-138	24.7	7
27	Immunometabolism and the land of milk and honey. *Nature Reviews Immunology*, **2017**, 17, 217	36.5	6
26	ACLY Nuclear Translocation in Human Macrophages Drives Proinflammatory Gene Expression by NF-B Acetylation. *Cells*, **2021**, 10,	7.9	6
25	Role for Retinoic Acid-Related Orphan Receptor Alpha (ROR)Expressing Macrophages in Diet-Induced Obesity. *Frontiers in Immunology*, **2020**, 11, 1966	8.4	6
24	Plant science. Innate immunity in plants goes to the PUB. *Science*, **2011**, 332, 1386-7	33.3	5
23	Autocrine regulation of the transcription factor NF kappa B by TNF alpha in the human T cell lymphoma line Hut 78. *Biochemical Society Transactions*, **1995**, 23, 113S	5.1	5
22	The role of the electron transport chain in immunity. *FASEB Journal*, **2021**, 35, e21974	0.9	5
21	4-Octyl-Itaconate and Dimethyl Fumarate Inhibit COX2 Expression and Prostaglandin Production in Macrophages. *Journal of Immunology*, **2021**, 207, 2561-2569	5.3	5
20	Metabolic regulation of RA macrophages is distinct from RA fibroblasts and blockade of glycolysis alleviates inflammatory phenotype in both cell types. *Cellular and Molecular Life Sciences*, **2021**, 78, 7693-7707	10.2	5
19	Itaconate and itaconate derivatives target JAK1 to suppress alternative activation of macrophages.. *Cell Metabolism*, **2022**, 34, 487-501.e8	24.6	5
18	Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response.. *IScience*, **2022**, 25, 103827	6.1	4
17	SARS-CoV-2 targets MAVS for immune evasion. *Nature Cell Biology*, **2021**, 23, 682-683	23.4	4
16	Macrophages Remember Cheeseburgers and Promote Inflammation via NLRP3. *Trends in Molecular Medicine*, **2018**, 24, 335-337	11.5	3
15	Counter-regulation in the IKK family. *Biochemical Journal*, **2011**, 434, e1-2	3.8	3
14	Studies into the mechanism of NF kappa B activation by IL1, TNF and H2O2 in primary and transformed endothelial cells. *Biochemical Society Transactions*, **1997**, 25, 125S	5.1	3
13	Immune-mediated inflammation across disease boundaries: breaking down research silos. *Nature Immunology*, **2021**, 22, 1344-1348	19.1	3

12	Pseudomonas Persists by Feeding off Itaconate. *Cell Metabolism*, **2020**, 31, 1045-1047	24.6	2
11	MyD88 is an essential component of retinoic acid-induced differentiation in human pluripotent embryonal carcinoma cells. *Cell Death and Differentiation*, **2017**, 24, 1975-1986	12.7	2
10	Dioxins damage dendritic cells. *Trends in Immunology*, **2001**, 22, 296	14.4	2
9	Targeting mitochondria to beat HIV-1. *Nature Immunology*, **2021**, 22, 398-399	19.1	2
8	Immunothrombosis and the molecular control of tissue factor by pyroptosis: prospects for new anticoagulants.. *Biochemical Journal*, **2022**, 479, 731-750	3.8	2
7	The Hunger Games: Salmonella, Anorexia, and NLRP3. *Cell Metabolism*, **2017**, 25, 225-226	24.6	1
6	Sustained activation of NF kappa B and transient I kappa B alpha degradation induced by tumour necrosis factor in 1321N1 human astrocytoma. *Biochemical Society Transactions*, **1995**, 23, 597S	5.1	1
5	Glutathione and Glutathione Transferase Omega 1 as Key Posttranslational Regulators in Macrophages787-801		1
4	Targeting macrophage immunometabolism to prevent atherosclerosis. *Nature Metabolism*, **2019**, 1, 1173-1174	14.6	1
3	Bridging the gap - a new role for STAT3 in TLR4-mediated metabolic reprogramming. *Immunology and Cell Biology*, **2021**, 99, 122-125	5	1
2	Glutathione transferase Omega 1 confers protection against azoxymethane-induced colorectal tumour formation. *Carcinogenesis*, **2021**, 42, 853-863	4.6	1
1	What is Life? The next fifty years. An introduction **1995**, 1-4		0