John O'Shea

List of Publications by Year
in descending order

100 papers	23,251 citations	27035 58 h-index	39744 98 g-index
116 all docs	116 docs citations	116 times ranked	32636 citing authors

#	Article	IF	Citations
1	JAKS AND STATS: Biological Implications. Annual Review of Immunology, 1998, 16, 293-322.	9.5	1,624
2	Generation of pathogenic TH17 cells in the absence of TGF-Î² signalling. Nature, 2010, 467, 967-971.	13.7	1,253
3	Mechanisms Underlying Lineage Commitment and Plasticity of Helper CD4 ⁺ T Cells. Science, 2010, 327, 1098-1102.	6.0	1,151
4	The JAK-STAT Pathway: Impact on Human Disease and Therapeutic Intervention. Annual Review of Medicine, 2015, 66, 311-328.	5.0	1,074
5	Janus kinases in immune cell signaling. Immunological Reviews, 2009, 228, 273-287.	2.8	982
6	Cytokine Signaling in 2002. Cell, 2002, 109, S121-S131.	13.5	978
7	JAK and STAT Signaling Molecules in Immunoregulation and Immune-Mediated Disease. Immunity, 2012, 36, 542-550.	6.6	933
8	Mechanisms and consequences of Jakâ€"STAT signaling in the immune system. Nature Immunology, 2017, 18, 374-384.	7.0	870
9	JAK inhibition as a therapeutic strategy for immune and inflammatory diseases. Nature Reviews Drug Discovery, 2017, 16, 843-862.	21.5	759
10	JAKs and STATs in Immunity, Immunodeficiency, and Cancer. New England Journal of Medicine, 2013, 368, 161-170.	13.9	738
11	Cytokine Signaling Modules in Inflammatory Responses. Immunity, 2008, 28, 477-487.	6.6	641
12	Prevention of Organ Allograft Rejection by a Specific Janus Kinase 3 Inhibitor. Science, 2003, 302, 875-878.	6.0	630
13	An activating NLRC4 inflammasome mutation causes autoinflammation with recurrent macrophage activation syndrome. Nature Genetics, 2014, 46, 1140-1146.	9.4	585
14	Cytokines and autoimmunity. Nature Reviews Immunology, 2002, 2, 37-45.	10.6	558
15	Opposing regulation of the locus encoding IL-17 through direct, reciprocal actions of STAT3 and STAT5. Nature Immunology, 2011, 12, 247-254.	7.0	522
16	Gene profiling reveals unknown enhancing and suppressive actions of glucocorticoids on immune cells. FASEB Journal, 2002, 16, 61-71.	0.2	510
17	Type I/II cytokines, JAKs, and new strategies for treating autoimmune diseases. Nature Reviews Rheumatology, 2016, 12, 25-36.	3.5	468
18	Mechanisms of Jak/STAT Signaling in Immunity and Disease. Journal of Immunology, 2015, 194, 21-27.	0.4	440

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19	Single-cell RNA-seq reveals TOX as a key regulator of CD8+ T cell persistence in chronic infection. Nature Immunology, 2019, 20, 890-901.	7.0	361
20	Janus kinase inhibitors in autoimmune diseases. Annals of the Rheumatic Diseases, 2013, 72, ii111-ii115.	0.5	350
21	BACH2 represses effector programs to stabilize Treg-mediated immune homeostasis. Nature, 2013, 498, 506-510.	13.7	332
22	Stat5a/b are essential for normal lymphoid development and differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1000-1005.	3.3	331
23	Super-enhancers delineate disease-associated regulatory nodes in T cells. Nature, 2015, 520, 558-562.	13.7	323
24	Non-classical Immunity Controls Microbiota Impact on Skin Immunity and Tissue Repair. Cell, 2018, 172, 784-796.e18.	13.5	323
25	Regulation of MicroRNA Expression and Abundance during Lymphopoiesis. Immunity, 2010, 32, 828-839.	6.6	307
26	A new modality for immunosuppression: targeting the JAK/STAT pathway. Nature Reviews Drug Discovery, 2004, 3, 555-564.	21.5	275
27	Developmental Acquisition of Regulomes Underlies Innate Lymphoid Cell Functionality. Cell, 2016, 165, 1120-1133.	13.5	273
28	Th17 cells: a new fate for differentiating helper T cells. Immunologic Research, 2008, 41, 87-102.	1.3	271
29	Genomic views of STAT function in CD4+ T helper cell differentiation. Nature Reviews Immunology, 2011, 11, 239-250.	10.6	251
30	The Î³c Family of Cytokines: Basic Biology to Therapeutic Ramifications. Immunity, 2019, 50, 832-850.	6.6	248
31	BRD4 assists elongation of both coding and enhancer RNAs by interacting with acetylated histones. Nature Structural and Molecular Biology, 2014, 21, 1047-1057.	3.6	247
32	The functional plasticity of T cell subsets. Nature Reviews Immunology, 2009, 9, 811-816.	10.6	241
33	Interleukin-27 Priming of T Cells Controls IL-17 Production In trans via Induction of the Ligand PD-L1. Immunity, 2012, 36, 1017-1030.	6.6	229
34	BACH2 regulates CD8+ T cell differentiation by controlling access of AP-1 factors to enhancers. Nature Immunology, 2016, 17, 851-860.	7.0	221
35	Commensal-specific T cell plasticity promotes rapid tissue adaptation to injury. Science, 2019, 363, .	6.0	219
36	Janus kinase-targeting therapies in rheumatology: a mechanisms-based approach. Nature Reviews Rheumatology, 2022, 18, 133-145.	3.5	193

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37	T-cell-expressed proprotein convertase furin is essential for maintenance of peripheral immune tolerance. Nature, 2008, 455, 246-250.	13.7	183
38	Tofacitinib Ameliorates Murine Lupus and Its Associated Vascular Dysfunction. Arthritis and Rheumatology, 2017, 69, 148-160.	2.9	183
39	Distinct requirements for T-bet in gut innate lymphoid cells. Journal of Experimental Medicine, 2012, 209, 2331-2338.	4.2	160
40	Asymmetric Action of STAT Transcription Factors Drives Transcriptional Outputs and Cytokine Specificity. Immunity, 2015, 42, 877-889.	6.6	137
41	Translational and clinical advances in JAK-STAT biology: The present and future of jakinibs. Journal of Leukocyte Biology, 2018, 104, 499-514.	1.5	122
42	BACH2 immunodeficiency illustrates an association between super-enhancers and haploinsufficiency. Nature Immunology, 2017, 18, 813-823.	7.0	113
43	Janus kinases to jakinibs: from basic insights to clinical practice. Rheumatology, 2019, 58, i4-i16.	0.9	111
44	Back to the future: oral targeted therapy for RA and other autoimmune diseases. Nature Reviews Rheumatology, 2013, 9, 173-182.	3.5	106
45	Celastrol, a Chinese herbal compound, controls autoimmune inflammation by altering the balance of pathogenic and regulatory T cells in the target organ. Clinical Immunology, 2015, 157, 228-238.	1.4	106
46	The macrophage-specific V-ATPase subunit ATP6V0D2 restricts inflammasome activation and bacterial infection by facilitating autophagosome-lysosome fusion. Autophagy, 2019, 15, 960-975.	4.3	101
47	Signaling by IL-2 and related cytokines: JAKs, STATs, and relationship to immunodeficiency. Journal of Leukocyte Biology, 1996, 60, 441-452.	1.5	97
48	Helper T-cell differentiation and plasticity: insights from epigenetics. Immunology, 2011, 134, 235-245.	2.0	96
49	Phase 1 double-blind randomized safety trial of the Janus kinase inhibitor tofacitinib in systemic lupus erythematosus. Nature Communications, 2021, 12, 3391.	5.8	93
50	Subset- and tissue-defined STAT5 thresholds control homeostasis and function of innate lymphoid cells. Journal of Experimental Medicine, 2017, 214, 2999-3014.	4.2	85
51	Inhibition of IL-2 responsiveness by IL-6 is required for the generation of GC-T _{FH} cells. Science Immunology, 2019, 4, .	5.6	84
52	Selective targeting of JAK/STAT signaling is potentiated by Bcl-xL blockade in IL-2â€“dependent adult T-cell leukemia. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12480-12485.	3.3	81
53	The Transcription Factor T-bet Limits Amplification of Type I IFN Transcriptome and Circuitry in T Helper 1 Cells. Immunity, 2017, 46, 983-991.e4.	6.6	79
54	Transcriptional and epigenetic networks of helper T and innate lymphoid cells. Immunological Reviews, 2014, 261, 23-49.	2.8	76

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55	BACH2 enforces the transcriptional and epigenetic programs of stem-like CD8+ T cells. Nature Immunology, 2021, 22, 370-380.	7.0	75
56	Memory Stem T Cells in Autoimmune Disease: High Frequency of Circulating CD8+ Memory Stem Cells in Acquired Aplastic Anemia. Journal of Immunology, 2016, 196, 1568-1578.	0.4	74
57	Signal transducer and activator of transcription 5 (STAT5) paralog dose governs T cell effector and regulatory functions. ELife, 2016, 5, .	2.8	74
58	Thrombopoietin (TPO) induces tyrosine phosphorylation and activation of STAT5 and STAT3. FEBS Letters, 1995, 370, 63-68.	1.3	70
59	STAM2, a new member of the STAM family, binding to the Janus kinases. FEBS Letters, 2000, 477, 55-61.	1.3	61
60	Reversal of CD8 T-Cellâ€"Mediated Mucocutaneous Graft-Versus-Host-Like Disease by the JAK Inhibitor Tofacitinib. Journal of Investigative Dermatology, 2014, 134, 992-1000.	0.3	61
61	Type 1 IFNs and regulation of TH1 responses: enigmas both resolved and emerge. Nature Immunology, 2000, 1, 17-19.	7.0	59
62	The transcription factors STAT5A/B regulate GM-CSFâ€"mediated granulopoiesis. Blood, 2009, 114, 4721-4728.	0.6	58
63	New strategies for immunosuppression: interfering with cytokines by targeting the Jak/Stat pathway. Current Opinion in Rheumatology, 2005, 17, 305-311.	2.0	56
64	Signal transduction and Th17 cell differentiation. Microbes and Infection, 2009, 11, 599-611.	1.0	52
65	The Histone Variant MacroH2A1.2 Is Necessary for the Activation of Muscle Enhancers and Recruitment of the Transcription Factor Pbx1. Cell Reports, 2016, 14, 1156-1168.	2.9	49
66	JAK inhibitors: Ten years after. European Journal of Immunology, 2021, 51, 1615-1627.	1.6	49
67	The kinase DYRK1A reciprocally regulates the differentiation of Th17 and regulatory T cells. ELife, 2015, 4, .	2.8	48
68	Targeting cytokine signaling in autoimmunity: back to the future and beyond. Current Opinion in Immunology, 2016, 43, 89-97.	2.4	47
69	Rapid Enhancer Remodeling and Transcription Factor Repurposing Enable High Magnitude Gene Induction upon Acute Activation of NK Cells. Immunity, 2020, 53, 745-758.e4.	6.6	46
70	Advances in the understanding of cytokine signal transduction: the role of Jaks and STATs in immunoregulation and the pathogenesis of immunodeficiency. Journal of Clinical Immunology, 1997, 17, 431-447.	2.0	45
71	An autoregulatory enhancer controls mammary-specific STAT5 functions. Nucleic Acids Research, 2016, 44, 1052-1063.	6.5	44
72	A Decade of JAK Inhibitors: What Have We Learned and What May Be the Future?. Arthritis and Rheumatology, 2021, 73, 2166-2178.	2.9	43

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73	New complexities in helper T cell fate determination and the implications for autoimmune diseases. Modern Rheumatology, 2008, 18, 533-541.	0.9	42
74	In Search of Magic Bullets: The Golden Age of Immunotherapeutics. Cell, 2014, 157, 227-240.	13.5	40
75	Environmental arginine controls multinuclear giant cell metabolism and formation. Nature Communications, 2020, 11, 431.	5.8	37
76	Super-enhancers: Asset management in immune cell genomes. Trends in Immunology, 2015, 36, 519-526.	2.9	36
77	New complexities in helper T cell fate determination and the implications for autoimmune diseases. Modern Rheumatology, 2008, 18, 533-541.	0.9	34
78	NCR⁺ ILC3 maintain larger STAT4 reservoir via Tâ€BET to regulate type 1 features upon ILâ€23 stimulation in mice. European Journal of Immunology, 2018, 48, 1174-1180.	1.6	33
79	Divergent Role for STAT5 in the Adaptive Responses of Natural Killer Cells. Cell Reports, 2020, 33, 108498.	2.9	32
80	STAT5B: A Differential Regulator of the Life and Death of CD4+ Effector Memory T Cells. Journal of Immunology, 2018, 200, 110-118.	0.4	29
81	Epigenomic Views of Innate Lymphoid Cells. Frontiers in Immunology, 2017, 8, 1579.	2.2	26
82	IL-10 induces a STAT3-dependent autoregulatory loop in T _H 2 cells that promotes Blimp-1 restriction of cell expansion via antagonism of STAT5 target genes. Science Immunology, 2016, 1, .	5.6	26
83	Transcription factors and <scp>CD</scp>4 T cells seeking identity: masters, minions, setters and spikers. Immunology, 2013, 139, 294-298.	2.0	25
84	Severe combined immune deficiencies due to defects of the common ? chain-JAK3 signaling pathway. Seminars in Immunopathology, 1998, 19, 401-415.	4.0	18
85	Jakinibs of All Trades: Inhibiting Cytokine Signaling in Immune-Mediated Pathologies. Pharmaceuticals, 2022, 15, 48.	1.7	16
86	Tissue Inhibitor of Metalloproteinase 1 Is Preferentially Expressed in Th1 and Th17 T-Helper Cell Subsets and Is a Direct Stat Target Gene. PLoS ONE, 2013, 8, e59367.	1.1	15
87	Compromised counterselection by FAS creates an aggressive subtype of germinal center lymphoma. Journal of Experimental Medicine, 2021, 218, .	4.2	14
88	The Gene Encoding the Hematopoietic Stem Cell Regulator CCN3/NOV Is under Direct Cytokine Control through the Transcription Factors STAT5A/B*. Journal of Biological Chemistry, 2010, 285, 32704-32709.	1.6	13
89	Multi-Dimensional Gene Regulation in Innate and Adaptive Lymphocytes: A View From Regulomes. Frontiers in Immunology, 2021, 12, 655590.	2.2	12
90	Signal Transduction by Interleukin-12 and Interleukin-2.. Annals of the New York Academy of Sciences, 1996, 795, 41-59.	1.8	11

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91	Enhancing the understanding of asthma. Nature Immunology, 2014, 15, 701-703.	7.0	10
92	PAPST, a User Friendly and Powerful Java Platform for ChIP-Seq Peak Co-Localization Analysis and Beyond. PLoS ONE, 2015, 10, e0127285.	1.1	10
93	A Metabolic Switch for Th17 Pathogenicity. Cell, 2015, 163, 1308-1310.	13.5	9
94	Cholesterol 25-hydroxylase is a metabolic switch to constrain T cellâ€“mediated inflammation in the skin. Science Immunology, 2021, 6, eabb6444.	5.6	7
95	JAK Inhibition Differentially Affects NK Cell and ILC1 Homeostasis. Frontiers in Immunology, 2019, 10, 2972.	2.2	6
96	Evolving Views of Long Noncoding RNAs and Epigenomic Control of Lymphocyte State and Memory. Cold Spring Harbor Perspectives in Biology, 2022, 14, a037952.	2.3	6
97	MicroRNA-directed pathway discovery elucidates an miR-221/222â€“mediated regulatory circuit in class switch recombination. Journal of Experimental Medicine, 2021, 218, .	4.2	6
98	Phosphorylation of the T cell antigen receptor: Multiple signal transduction pathways. Journal of Cellular Physiology, 1987, 133, 49-51.	2.0	3
99	Molecular Basis of Severe Combined Immunodeficiency: Lessons from Cytokine Signaling Pathways. , 0, , 279-305.		0
100	Immunology Lessons from the SARS-CoV-2 Pandemic. Annual Review of Immunology, 2021, 39, v-vii.	9.5	0