

# Alejandro Villarino

## List of Publications by Year in descending order

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110  
papers

23,639  
citations

17440

63  
h-index

25787

108  
g-index

114  
all docs

114  
docs citations

114  
times ranked

28820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Posttranscriptional Control of T Cell Effector Function by Aerobic Glycolysis. <i>Cell</i> , 2013, 153, 1239-1251.	28.9	1,715
2	Interleukin-2 Signaling via STAT5 Constrains T Helper 17 Cell Generation. <i>Immunity</i> , 2007, 26, 371-381.	14.3	1,317
3	Generation of pathogenic TH17 cells in the absence of TGF- $\beta$ 2 signalling. <i>Nature</i> , 2010, 467, 967-971.	27.8	1,253
4	The JAK-STAT Pathway: Impact on Human Disease and Therapeutic Intervention. <i>Annual Review of Medicine</i> , 2015, 66, 311-328.	12.2	1,074
5	Impaired TH17 cell differentiation in subjects with autosomal dominant hyper-IgE syndrome. <i>Nature</i> , 2008, 452, 773-776.	27.8	1,046
6	The interleukin 23 receptor is essential for the terminal differentiation of interleukin 17-producing effector T helper cells in vivo. <i>Nature Immunology</i> , 2009, 10, 314-324.	14.5	921
7	Interleukin 27 negatively regulates the development of interleukin 17-producing T helper cells during chronic inflammation of the central nervous system. <i>Nature Immunology</i> , 2006, 7, 937-945.	14.5	874
8	Mechanisms and consequences of Jak-STAT signaling in the immune system. <i>Nature Immunology</i> , 2017, 18, 374-384.	14.5	870
9	JAK inhibition as a therapeutic strategy for immune and inflammatory diseases. <i>Nature Reviews Drug Discovery</i> , 2017, 16, 843-862.	46.4	759
10	Interleukins 27 and 6 induce STAT3-mediated T cell production of interleukin 10. <i>Nature Immunology</i> , 2007, 8, 1363-1371.	14.5	733
11	Role of T-bet in Commitment of T $\text{H}$ 1 Cells Before IL-12-Dependent Selection. <i>Science</i> , 2001, 292, 1907-1910.	12.6	730
12	Diverse Targets of the Transcription Factor STAT3 Contribute to T Cell Pathogenicity and Homeostasis. <i>Immunity</i> , 2010, 32, 605-615.	14.3	605
13	An activating NLR4 inflammasome mutation causes autoinflammation with recurrent macrophage activation syndrome. <i>Nature Genetics</i> , 2014, 46, 1140-1146.	21.4	585
14	Selective regulatory function of Socs3 in the formation of IL-17-secreting T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8137-8142.	7.1	580
15	IL-21 Is Produced by Th17 Cells and Drives IL-17 Production in a STAT3-dependent Manner. <i>Journal of Biological Chemistry</i> , 2007, 282, 34605-34610.	3.4	549
16	Opposing regulation of the locus encoding IL-17 through direct, reciprocal actions of STAT3 and STAT5. <i>Nature Immunology</i> , 2011, 12, 247-254.	14.5	522
17	Nonredundant roles for Stat5a/b in directly regulating Foxp3. <i>Blood</i> , 2007, 109, 4368-4375.	1.4	488
18	Mechanisms of Jak/STAT Signaling in Immunity and Disease. <i>Journal of Immunology</i> , 2015, 194, 21-27.	0.8	440

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19	The IL-27R (WSX-1) Is Required to Suppress T Cell Hyperactivity during Infection. <i>Immunity</i> , 2003, 19, 645-655.	14.3	439
20	Retinoic acid inhibits Th17 polarization and enhances FoxP3 expression through a Stat-3/Stat-5 independent signaling pathway. <i>Blood</i> , 2008, 111, 1013-1020.	1.4	392
21	Non-classical Immunity Controls Microbiota Impact on Skin Immunity and Tissue Repair. <i>Cell</i> , 2018, 172, 784-796.e18.	28.9	323
22	Regulation of MicroRNA Expression and Abundance during Lymphopoiesis. <i>Immunity</i> , 2010, 32, 828-839.	14.3	307
23	Genomic views of STAT function in CD4+ T helper cell differentiation. <i>Nature Reviews Immunology</i> , 2011, 11, 239-250.	22.7	251
24	Signal transduction pathways and transcriptional regulation in the control of Th17 differentiation. <i>Seminars in Immunology</i> , 2007, 19, 400-408.	5.6	231
25	Interleukin-27 Priming of T Cells Controls IL-17 Production In trans via Induction of the Ligand PD-L1. <i>Immunity</i> , 2012, 36, 1017-1030.	14.3	229
26	The IL-27 Receptor (WSX-1) Is an Inhibitor of Innate and Adaptive Elements of Type 2 Immunity. <i>Journal of Immunology</i> , 2004, 173, 5626-5634.	0.8	226
27	Selectivity and therapeutic inhibition of kinases: to be or not to be?. <i>Nature Immunology</i> , 2009, 10, 356-360.	14.5	218
28	Understanding the Pro- and Anti-Inflammatory Properties of IL-27. <i>Journal of Immunology</i> , 2004, 173, 715-720.	0.8	210
29	Role of IL-17 and regulatory T lymphocytes in a systemic autoimmune disease. <i>Journal of Experimental Medicine</i> , 2006, 203, 2785-2791.	8.5	210
30	IL-27 Limits IL-2 Production during Th1 Differentiation. <i>Journal of Immunology</i> , 2006, 176, 237-247.	0.8	196
31	Signal transduction pathways and transcriptional regulation in Th17 cell differentiation. <i>Cytokine and Growth Factor Reviews</i> , 2010, 21, 425-434.	7.2	195
32	T cell activation induces proteasomal degradation of Argonaute and rapid remodeling of the microRNA repertoire. <i>Journal of Experimental Medicine</i> , 2013, 210, 417-432.	8.5	180
33	STAT3 Transcription Factor Promotes Instability of nTreg Cells and Limits Generation of iTreg Cells during Acute Murine Graft-versus-Host Disease. <i>Immunity</i> , 2012, 37, 209-222.	14.3	164
34	Distinct requirements for T-bet in gut innate lymphoid cells. <i>Journal of Experimental Medicine</i> , 2012, 209, 2331-2338.	8.5	160
35	Positive and Negative Regulation of the IL-27 Receptor during Lymphoid Cell Activation. <i>Journal of Immunology</i> , 2005, 174, 7684-7691.	0.8	154
36	SARS-CoV-2 drives JAK1/2-dependent local complement hyperactivation. <i>Science Immunology</i> , 2021, 6, .	11.9	144

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37	Mechanisms underlying helper T-cell plasticity: Implications for immune-mediated disease. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 131, 1276-1287.	2.9	138
38	Lactate inhibits ATP6V0d2 expression in tumor-associated macrophages to promote HIF-2Î±-mediated tumor progression. <i>Journal of Clinical Investigation</i> , 2019, 129, 631-646.	8.2	138
39	Asymmetric Action of STAT Transcription Factors Drives Transcriptional Outputs and Cytokine Specificity. <i>Immunity</i> , 2015, 42, 877-889.	14.3	137
40	EZH2 is crucial for both differentiation of regulatory T cells and T effector cell expansion. <i>Scientific Reports</i> , 2015, 5, 10643.	3.3	129
41	Targeting JAK/STAT signalling in inflammatory skin diseases with small molecule inhibitors. <i>European Journal of Immunology</i> , 2017, 47, 1096-1107.	2.9	127
42	Translational and clinical advances in JAK-STAT biology: The present and future of jakinibs. <i>Journal of Leukocyte Biology</i> , 2018, 104, 499-514.	3.3	122
43	BACH2 immunodeficiency illustrates an association between super-enhancers and haploinsufficiency. <i>Nature Immunology</i> , 2017, 18, 813-823.	14.5	113
44	Helper T cell IL-2 production is limited by negative feedback and STAT-dependent cytokine signals. <i>Journal of Experimental Medicine</i> , 2007, 204, 65-71.	8.5	112
45	New insights into the roles of Stat5a/b and Stat3 in T cell development and differentiation. <i>Seminars in Cell and Developmental Biology</i> , 2008, 19, 394-400.	5.0	109
46	Celastrol, a Chinese herbal compound, controls autoimmune inflammation by altering the balance of pathogenic and regulatory T cells in the target organ. <i>Clinical Immunology</i> , 2015, 157, 228-238.	3.2	106
47	Autocrine vitamin D signaling switches off pro-inflammatory programs of TH1 cells. <i>Nature Immunology</i> , 2022, 23, 62-74.	14.5	105
48	PD-1 Inhibitory Receptor Downregulates Asparaginyl Endopeptidase and Maintains Foxp3 Transcription Factor Stability in Induced Regulatory T Cells. <i>Immunity</i> , 2018, 49, 247-263.e7.	14.3	104
49	STAT1-Activating Cytokines Limit Th17 Responses through Both T-bet-Dependent and -Independent Mechanisms. <i>Journal of Immunology</i> , 2010, 185, 6461-6471.	0.8	103
50	The macrophage-specific V-ATPase subunit ATP6V0D2 restricts inflammasome activation and bacterial infection by facilitating autophagosome-lysosome fusion. <i>Autophagy</i> , 2019, 15, 960-975.	9.1	101
51	Cutting Edge: The Th1 Response Inhibits the Generation of Peripheral Regulatory T Cells. <i>Journal of Immunology</i> , 2010, 184, 30-34.	0.8	100
52	Cutting Edge: Early IL-4 Production Governs the Requirement for IL-27-WSX-1 Signaling in the Development of Protective Th1 Cytokine Responses following <i>Leishmania major</i> Infection. <i>Journal of Immunology</i> , 2004, 172, 4672-4675.	0.8	97
53	Induction of Cytotoxic T Lymphocyte Antigen 4 (Ctla-4) Restricts Clonal Expansion of Helper T Cells. <i>Journal of Experimental Medicine</i> , 2001, 194, 893-902.	8.5	95
54	Helper T-cell identity and evolution of differential transcriptomes and epigenomes. <i>Immunological Reviews</i> , 2013, 252, 24-40.	6.0	90

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55	Human retinoic acid-regulated CD161+ regulatory T cells support wound repair in intestinal mucosa. <i>Nature Immunology</i> , 2018, 19, 1403-1414.	14.5	86
56	JAK Kinases in Health and Disease: An Update. <i>Open Rheumatology Journal</i> , 2012, 6, 232-244.	0.2	85
57	Subset- and tissue-defined STAT5 thresholds control homeostasis and function of innate lymphoid cells. <i>Journal of Experimental Medicine</i> , 2017, 214, 2999-3014.	8.5	85
58	Inhibition of IL-2 responsiveness by IL-6 is required for the generation of GC-T <sub>H</sub> cells. <i>Science Immunology</i> , 2019, 4, .	11.9	84
59	Transcriptional and epigenetic networks of helper T and innate lymphoid cells. <i>Immunological Reviews</i> , 2014, 261, 23-49.	6.0	76
60	Duration of antigen receptor signaling determines T-cell tolerance or activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18085-18090.	7.1	75
61	Signal transducer and activator of transcription 5 (STAT5) paralog dose governs T cell effector and regulatory functions. <i>ELife</i> , 2016, 5, .	6.0	74
62	A mouse model of HIES reveals pro- and anti-inflammatory functions of STAT3. <i>Blood</i> , 2014, 123, 2978-2987.	1.4	71
63	TLR Ligands Can Activate Dendritic Cells to Provide a MyD88-Dependent Negative Signal for Th2 Cell Development. <i>Journal of Immunology</i> , 2005, 174, 742-751.	0.8	70
64	Dominant-negative mutations in human <i>IL6ST</i> underlie hyper-IgE syndrome. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	64
65	Cell cycle controlling the silencing and functioning of mammalian activators. <i>Current Biology</i> , 2001, 11, 1695-1699.	3.9	63
66	Biallelic interferon regulatory factor 8 mutation: A complex immunodeficiency syndrome with dendritic cell deficiency, monocytopenia, and immune dysregulation. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 2234-2248.	2.9	63
67	The Magnitude of IFN- $\beta$ Responses Is Fine-Tuned by DNA Architecture and the Non-coding Transcript of <i>lfn-g-as1</i> . <i>Molecular Cell</i> , 2019, 75, 1229-1242.e5.	9.7	58
68	Group 1 Innate Lymphoid Cell Lineage Identity Is Determined by a cis-Regulatory Element Marked by a Long Non-coding RNA. <i>Immunity</i> , 2017, 47, 435-449.e8.	14.3	57
69	The role of IL-27 in the development of T-cell responses during parasitic infections. <i>Immunological Reviews</i> , 2004, 202, 106-114.	6.0	56
70	Posttranscriptional Silencing of Effector Cytokine mRNA Underlies the Anergic Phenotype of Self-Reactive T Cells. <i>Immunity</i> , 2011, 34, 50-60.	14.3	56
71	Retinoic Acid Receptor Alpha Represses a Th9 Transcriptional and Epigenomic Program to Reduce Allergic Pathology. <i>Immunity</i> , 2019, 50, 106-120.e10.	14.3	54
72	SnapShot: Jak-STAT Signaling II. <i>Cell</i> , 2020, 181, 1696-1696.e1.	28.9	53

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73	Biology of recently discovered cytokines: discerning the pro- and anti-inflammatory properties of interleukin-27. <i>Arthritis Research</i> , 2004, 6, 225.	2.0	52
74	Signal transduction and Th17 cell differentiation. <i>Microbes and Infection</i> , 2009, 11, 599-611.	1.9	52
75	Global analysis of DNA methylation in hepatocellular carcinoma by a liquid hybridization capture-based bisulfite sequencing approach. <i>Clinical Epigenetics</i> , 2015, 7, 86.	4.1	48
76	IL-27R deficiency delays the onset of colitis and protects from helminth-induced pathology in a model of chronic IBD. <i>International Immunology</i> , 2008, 20, 739-752.	4.0	47
77	TFEB Mediates Immune Evasion and Resistance to mTOR Inhibition of Renal Cell Carcinoma via Induction of PD-L1. <i>Clinical Cancer Research</i> , 2019, 25, 6827-6838.	7.0	47
78	Rapid Enhancer Remodeling and Transcription Factor Repurposing Enable High Magnitude Gene Induction upon Acute Activation of NK Cells. <i>Immunity</i> , 2020, 53, 745-758.e4.	14.3	46
79	An autoregulatory enhancer controls mammary-specific STAT5 functions. <i>Nucleic Acids Research</i> , 2016, 44, 1052-1063.	14.5	44
80	Absence of GP130 cytokine receptor signaling causes extended Stã¼ve-Wiedemann syndrome. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	41
81	IL-13-producing Th1 and Th17 cells characterize adaptive responses to both self and foreign antigens. <i>European Journal of Immunology</i> , 2012, 42, 2322-2328.	2.9	39
82	Divergent Role for STAT5 in the Adaptive Responses of Natural Killer Cells. <i>Cell Reports</i> , 2020, 33, 108498.	6.4	32
83	IL-23 and IL-2 activation of STAT5 is required for optimal IL-22 production in ILC3s during colitis. <i>Science Immunology</i> , 2020, 5, .	11.9	32
84	STAT5B: A Differential Regulator of the Life and Death of CD4+ Effector Memory T Cells. <i>Journal of Immunology</i> , 2018, 200, 110-118.	0.8	29
85	TNF overproduction impairs epithelial staphylococcal response in hyper IgE syndrome. <i>Journal of Clinical Investigation</i> , 2018, 128, 3595-3604.	8.2	28
86	IL-10 induces a STAT3-dependent autoregulatory loop in T <sub>H</sub> 2 cells that promotes Blimp-1 restriction of cell expansion via antagonism of STAT5 target genes. <i>Science Immunology</i> , 2016, 1, .	11.9	26
87	STAT3-independent production of IL-17 by mouse innate-like T cells controls ocular infection. <i>Journal of Experimental Medicine</i> , 2018, 215, 1079-1090.	8.5	25
88	Inborn errors of IL-6 family cytokine responses. <i>Current Opinion in Immunology</i> , 2021, 72, 135-145.	5.5	25
89	Characterization of a candidate <i>Trypanosoma brucei</i> U1 small nuclear RNA gene. <i>Molecular and Biochemical Parasitology</i> , 2001, 113, 109-115.	1.1	24
90	A variant in IL6ST with a selective IL-11 signaling defect in human and mouse. <i>Bone Research</i> , 2020, 8, 24.	11.4	21

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91	Functional and structural analysis of cytokine-selective IL6ST defects that cause recessive hyper-IgE syndrome. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 585-598.	2.9	20
92	T Helper Plasticity Is Orchestrated by STAT3, Bcl6, and Blimp-1 Balancing Pathology and Protection in Malaria. <i>iScience</i> , 2020, 23, 101310.	4.1	17
93	IL-7-dependent STAT1 activation limits homeostatic CD4+ T cell expansion. <i>JCI Insight</i> , 2017, 2, .	5.0	15
94	Loss of 11 $\beta$ HSD1 enhances glycolysis, facilitates intrahepatic metastasis, and indicates poor prognosis in hepatocellular carcinoma. <i>Oncotarget</i> , 2016, 7, 2038-2053.	1.8	13
95	PI3K $\gamma$ coordinates transcriptional, chromatin, and metabolic changes to promote effector CD8+ T cells at the expense of central memory. <i>Cell Reports</i> , 2021, 37, 109804.	6.4	13
96	IL-6 enhances CD4 cell motility by sustaining mitochondrial Ca <sup>2+</sup> through the noncanonical STAT3 pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
97	Tbet is a critical modulator of FoxP3 expression in autoimmune graft-versus-host disease. <i>Haematologica</i> , 2017, 102, 1446-1456.	3.5	8
98	MicroRNA-29a attenuates CD8 T cell exhaustion and induces memory-like CD8 T cells during chronic infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2106083119.	7.1	7
99	IL-1 watches the watchmen. <i>Nature Immunology</i> , 2015, 16, 226-227.	14.5	6
100	Interleukin 27 and viral hepatitis: Smarter than the average cytokine. <i>Hepatology</i> , 2009, 50, 358-360.	7.3	3
101	Dynamics of genomic and immune responses during primary immunotherapy resistance in mismatch repair-deficient tumors. <i>Journal of Physical Education and Sports Management</i> , 2020, 6, a005678.	1.2	3
102	Pembrolizumab for the treatment of progressive multifocal leukoencephalopathy following anti-CD19 CAR-T therapy: a case report. <i>EJHaem</i> , 2021, 2, 848-853.	1.0	3
103	Progressive multifocal leukoencephalopathy in the era of chimeric antigen receptor T-cell therapy. <i>Lancet Haematology</i> , 2021, 8, e870-e873.	4.6	3
104	Frequency of Blast Crisis after Achieving Complete Cytogenetic Remission in First Chronic Phase CML Patients Who Received Imatinib Therapy within Six Months of Diagnosis. <i>Blood</i> , 2004, 104, 1021-1021.	1.4	2
105	IL-27 shakes up the establishment of ectopic lymphoid structures. <i>Journal of Experimental Medicine</i> , 2015, 212, 1757-1757.	8.5	1
106	ATP6V0d2 Suppresses Alveoli Macrophage Alternative Polarization and Allergic Asthma via Degradation of PU.1. <i>Allergy, Asthma and Immunology Research</i> , 2021, 13, 479.	2.9	1
107	Extraordinary effects of unnatural pairings. <i>ELife</i> , 2017, 6, .	6.0	1
108	Signal Transduction and TH17 Cell Differentiation. , 2011, , 157-182.		0

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109	Function of JAKs and STATs in Lymphocytes: Bench to Bedside. , 2012, , 205-237.		0
110	T cell activation induces proteasomal degradation of Argonaute and rapid remodeling of the microRNA repertoire. Journal of Cell Biology, 2013, 200, i9-i9.	5.2	0