Tom Taghon

List of Publications by Year
in descending order

118 papers	6,046 citations	94269 37 h-index	79541 73 g-index
125 all docs	125 docs citations	125 times ranked	9349 citing authors

#	Article	IF	Citations
1	Stellate Cells, Hepatocytes, and Endothelial Cells Imprint the Kupffer Cell Identity on Monocytes Colonizing the Liver Macrophage Niche. Immunity, 2019, 51, 638-654.e9.	6.6	384
2	A cell atlas of human thymic development defines T cell repertoire formation. Science, 2020, 367, .	6.0	368
3	A novel tumour-suppressor function for the Notch pathway in myeloid leukaemia. Nature, 2011, 473, 230-233.	13.7	351
4	PHF6 mutations in T-cell acute lymphoblastic leukemia. Nature Genetics, 2010, 42, 338-342.	9.4	282
5	Developmental and Molecular Characterization of Emerging Î²- and Î³Î´-Selected Pre-T Cells in the Adult Mouse Thymus. Immunity, 2006, 24, 53-64.	6.6	278
6	A cooperative microRNA-tumor suppressor gene network in acute T-cell lymphoblastic leukemia (T-ALL). Nature Genetics, 2011, 43, 673-678.	9.4	244
7	MOLECULAR GENETICS OF T CELL DEVELOPMENT. Annual Review of Immunology, 2005, 23, 601-649.	9.5	240
8	ABT-199 mediated inhibition of BCL-2 as a novel therapeutic strategy in T-cell acute lymphoblastic leukemia. Blood, 2014, 124, 3738-3747.	0.6	198
9	Generation of T Cells from Human Embryonic Stem Cell-Derived Hematopoietic Zones. Journal of Immunology, 2009, 182, 6879-6888.	0.4	186
10	Mast cell lineage diversion of T lineage precursors by the essential T cell transcription factor GATA-3. Nature Immunology, 2007, 8, 845-855.	7.0	175
11	The H3K27me3 demethylase UTX is a gender-specific tumor suppressor in T-cell acute lymphoblastic leukemia. Blood, 2015, 125, 13-21.	0.6	168
12	Quantification of Reverse Transcriptase Activity by Real-Time PCR as a Fast and Accurate Method for Titration of HIV, Lenti- and Retroviral Vectors. PLoS ONE, 2012, 7, e50859.	1.1	165
13	Active Form of Notch Imposes T Cell Fate in Human Progenitor Cells. Journal of Immunology, 2002, 169, 3021-3029.	0.4	100
14	Notch/Delta signaling constrains reengineering of pro-T cells by PU.1. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11993-11998.	3.3	100
15	An early decrease in Notch activation is required for human TCR-Î±Î² lineage differentiation at the expense of TCR-Î³Î´ T cells. Blood, 2009, 113, 2988-2998.	0.6	97
16	Specific Notch receptorâ€“ligand interactions control human TCR-Î±Î²/Î³Î´ development by inducing differential Notch signal strength. Journal of Experimental Medicine, 2013, 210, 683-697.	4.2	95
17	MicroRNA-193b-3p acts as a tumor suppressor by targeting the MYB oncogene in T-cell acute lymphoblastic leukemia. Leukemia, 2015, 29, 798-806.	3.3	91
18	Molecular Dissection of Prethymic Progenitor Entry into the T Lymphocyte Developmental Pathway. Journal of Immunology, 2007, 179, 421-438.	0.4	89

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19	Jagged2 acts as a Delta-like Notch ligand during early hematopoietic cell fate decisions. Blood, 2011, 117, 4449-4459.	0.6	89
20	Integrated scRNA-Seq Identifies Human Postnatal Thymus Seeding Progenitors and Regulatory Dynamics of Differentiating Immature Thymocytes. Immunity, 2020, 52, 1088-1104.e6.	6.6	79
21	ZEB2 drives immature T-cell lymphoblastic leukaemia development via enhanced tumour-initiating potential and IL-7 receptor signalling. Nature Communications, 2015, 6, 5794.	5.8	75
22	The RNA Atlas expands the catalog of human non-coding RNAs. Nature Biotechnology, 2021, 39, 1453-1465.	9.4	75
23	Safe targeting of T cell acute lymphoblastic leukemia by pathology-specific NOTCH inhibition. Science Translational Medicine, 2019, 11, .	5.8	74
24	Notch signaling is required for proliferation but not for differentiation at a well-defined Î²-selection checkpoint during human T-cell development. Blood, 2009, 113, 3254-3263.	0.6	70
25	HOX-A10 regulates hematopoietic lineage commitment: evidence for a monocyte-specific transcription factor. Blood, 2002, 99, 1197-1204.	0.6	64
26	Progression of regulatory gene expression states in fetal and adult pro-T-cell development. Immunological Reviews, 2006, 209, 212-236.	2.8	62
27	Epigenetics in Tâ€cell acute lymphoblastic leukemia. Immunological Reviews, 2015, 263, 50-67.	2.8	61
28	Homeobox gene expression profile in human hematopoietic multipotent stem cells and T-cell progenitors: implications for human T-cell development. Leukemia, 2003, 17, 1157-1163.	3.3	57
29	GATA3 induces human T-cell commitment by restraining Notch activity and repressing NK-cell fate. Nature Communications, 2016, 7, 11171.	5.8	57
30	MicroRNA-128-3p is a novel oncomiR targeting PHF6 in T-cell acute lymphoblastic leukemia. Haematologica, 2014, 99, 1326-1333.	1.7	55
31	Notch signaling induces cytoplasmic CD3Ïµ expression in human differentiating NK cells. Blood, 2007, 110, 2696-2703.	0.6	53
32	Molecular mechanisms that control mouse and human TCR-Î±Î² and TCR-Î³Î´ T cell development. Seminars in Immunopathology, 2008, 30, 383-398.	2.8	53
33	Notch Signaling During Human T cell Development. Current Topics in Microbiology and Immunology, 2012, 360, 75-97.	0.7	50
34	The Notch driven long non-coding RNA repertoire in T-cell acute lymphoblastic leukemia. Haematologica, 2014, 99, 1808-1816.	1.7	50
35	Comprehensive miRNA expression profiling in human T-cell acute lymphoblastic leukemia by small RNA-sequencing. Scientific Reports, 2017, 7, 7901.	1.6	49
36	Integrative Genomic and Transcriptomic Analysis Identified Candidate Genes Implicated in the Pathogenesis of Hepatosplenic T-Cell Lymphoma. PLoS ONE, 2014, 9, e102977.	1.1	48

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37	Functionally Mature CD4 and CD8 TCRÎ±Î² Cells Are Generated in OP9-DL1 Cultures from Human CD34+ Hematopoietic Cells. Journal of Immunology, 2009, 183, 4859-4870.	0.4	46
38	Distinct and temporary-restricted epigenetic mechanisms regulate human Î±Î² and Î³Î´ T cell development. Nature Immunology, 2020, 21, 1280-1292.	7.0	43
39	In vitro human embryonic stem cell hematopoiesis mimics MYB-independent yolk sac hematopoiesis. Haematologica, 2015, 100, 157-166.	1.7	40
40	The checkpoint for agonist selection precedes conventional selection in human thymus. Science Immunology, 2017, 2, .	5.6	40
41	Large-scale circular RNA deregulation in T-ALL: unlocking unique ectopic expression of molecular subtypes. Blood Advances, 2020, 4, 5902-5914.	2.5	39
42	Enforced Expression of GATA-3 Severely Reduces Human Thymic Cellularity. Journal of Immunology, 2001, 167, 4468-4475.	0.4	37
43	Posttranslational Regulation of the Exon Skipping Machinery Controls Aberrant Splicing in Leukemia. Cancer Discovery, 2020, 10, 1388-1409.	7.7	37
44	Characterization of a set of tumor suppressor microRNAs in T cell acute lymphoblastic leukemia. Science Signaling, 2014, 7, ra111.	1.6	36
45	T-lymphoid differentiation potential measured in vitro is higher in CD34+CD38-/lo hematopoietic stem cells from umbilical cord blood than from bone marrow and is an intrinsic property of the cells. Haematologica, 2011, 96, 646-654.	1.7	33
46	The transcription factor ETS1 is an important regulator of human NK cell development and terminal differentiation. Blood, 2020, 136, 288-298.	0.6	33
47	RHAMM/HMMR (CD168) is not an ideal target antigen for immunotherapy of acute myeloid leukemia. Haematologica, 2012, 97, 1539-1547.	1.7	32
48	Long noncoding RNA signatures define oncogenic subtypes in T-cell acute lymphoblastic leukemia. Leukemia, 2016, 30, 1927-1930.	3.3	32
49	NKT sublineage specification and survival requires the ubiquitin-modifying enzyme TNFAIP3/A20. Journal of Experimental Medicine, 2016, 213, 1973-1981.	4.2	31
50	Distinct Notch1 and BCL11B requirements mediate human Î³Î´/Î±Î² T cell development. EMBO Reports, 2020, 21, e49006.	2.0	31
51	Deletion 6q Drives T-cell Leukemia Progression by Ribosome Modulation. Cancer Discovery, 2018, 8, 1614-1631.	7.7	30
52	Human intrathymic development: a selective approach. Seminars in Immunopathology, 2008, 30, 411-423.	2.8	29
53	Targeting cytokine- and therapy-induced PIM1 activation in preclinical models of T-cell acute lymphoblastic leukemia and lymphoma. Blood, 2020, 135, 1685-1695.	0.6	28
54	CD27â€deficient mice show normal NKâ€cell differentiation but impaired function upon stimulation. Immunology and Cell Biology, 2011, 89, 803-811.	1.0	26

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55	Notch induces human T-cell receptor Î³Î´+ thymocytes to differentiate along a parallel, highly proliferative and bipotent CD4 CD8 double-positive pathway. Leukemia, 2012, 26, 127-138.	3.3	26
56	T-ALL and thymocytes: a message of noncoding RNAs. Journal of Hematology and Oncology, 2017, 10, 66.	6.9	24
57	A Murine Intestinal Intraepithelial NKp46-Negative Innate Lymphoid Cell Population Characterized by Group 1 Properties. Cell Reports, 2017, 19, 1431-1443.	2.9	24
58	SHQ1 regulation of RNA splicing is required for T-lymphoblastic leukemia cell survival. Nature Communications, 2018, 9, 4281.	5.8	24
59	T-BET and EOMES Accelerate and Enhance Functional Differentiation of Human Natural Killer Cells. Frontiers in Immunology, 2021, 12, 732511.	2.2	24
60	Continuous CD27 triggering in vivo strongly reduces NK cell numbers. European Journal of Immunology, 2010, 40, 1107-1117.	1.6	23
61	Characterization of the genome-wide TLX1 binding profile in T-cell acute lymphoblastic leukemia. Leukemia, 2015, 29, 2317-2327.	3.3	23
62	hsa-miR-20b-5p and hsa-miR-363-3p Affect Expression of PTEN and BIM Tumor Suppressor Genes and Modulate Survival of T-ALL Cells In Vitro. Cells, 2020, 9, 1137.	1.8	23
63	Antigen receptor-redirected T cells derived from hematopoietic precursor cells lack expression of the endogenous TCR/CD3 receptor and exhibit specific antitumor capacities. OncoImmunology, 2017, 6, e1283460.	2.1	22
64	ZEB2 and LMO2 drive immature T-cell lymphoblastic leukemia via distinct oncogenic mechanisms. Haematologica, 2019, 104, 1608-1616.	1.7	22
65	Aging of Preleukemic Thymocytes Drives CpG Island Hypermethylation in T-cell Acute Lymphoblastic Leukemia. Blood Cancer Discovery, 2020, 1, 274-289.	2.6	21
66	Ly49E-dependent inhibition of natural killer cells by urokinase plasminogen activator. Blood, 2008, 112, 5046-5051.	0.6	20
67	EVI1â€mediated down regulation of MIR449A is essential for the survival of EVI1 positive leukaemic cells. British Journal of Haematology, 2011, 154, 337-348.	1.2	20
68	A comprehensive inventory of TLX1 controlled long non-coding RNAs in T-cell acute lymphoblastic leukemia through polyA+ and total RNA sequencing. Haematologica, 2018, 103, e585-e589.	1.7	20
69	HES1 and HES4 have non-redundant roles downstream of Notch during early human T-cell development. Haematologica, 2020, 106, 130-141.	1.7	20
70	Langerhans Cells That Have Matured In Vivo in the Absence of T Cells Are Fully Capable of Inducing a Helper CD4 as Well as a Cytotoxic CD8 Response. Journal of Immunology, 2000, 165, 645-653.	0.4	19
71	In vitro generation of mature, naive antigen-specific CD8+ T cells with a single T-cell receptor by agonist selection. Leukemia, 2014, 28, 830-841.	3.3	19
72	Abundant stage-dependent Ly49E expression by liver NK cells is not essential for their differentiation and function. Journal of Leukocyte Biology, 2013, 93, 699-711.	1.5	18

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73	Notch3 Activation Is Sufficient but Not Required for Inducing Human T-Lineage Specification. Journal of Immunology, 2014, 193, 5997-6004.	0.4	17
74	A quantitative proteomics approach identifies ETV6 and IKZF1 as new regulators of anERG-driven transcriptional network. Nucleic Acids Research, 2016, 44, 10644-10661.	6.5	17
75	Persistentrotavirusdiarrhea post-transplant in a novelJAK3-SCID patient after vaccination. Pediatric Allergy and Immunology, 2016, 27, 93-96.	1.1	17
76	Inhibitory receptors specific for MHC class I educate murine NK cells but not CD8Î±Î± intestinal intraepithelial T lymphocytes. Blood, 2011, 118, 339-347.	0.6	15
77	Generation of adult human T-cell progenitors for immunotherapeutic applications. Journal of Allergy and Clinical Immunology, 2018, 141, 1491-1494.e4.	1.5	15
78	A Tumor Suppressor Enhancer ofPTENin T-cell Development and Leukemia. Blood Cancer Discovery, 2021, 2, 92-109.	2.6	15
79	DifferentialLy49eExpression Pathways in Resting versus TCR-Activated Intraepithelial Î³Î´ T Cells. Journal of Immunology, 2013, 190, 1982-1990.	0.4	12
80	PRL3 enhances T-cell acute lymphoblastic leukemia growth through suppressing T-cell signaling pathways and apoptosis. Leukemia, 2021, 35, 679-690.	3.3	11
81	Langerhans cells are not required for epidermal VÎ³3 T cell homeostasis and function. Journal of Leukocyte Biology, 2011, 90, 61-68.	1.5	10
82	Ly49E Expression on CD8Î±Î±-Expressing Intestinal Intraepithelial Lymphocytes Plays No Detectable Role in the Development and Progression of Experimentally Induced Inflammatory Bowel Diseases. PLoS ONE, 2014, 9, e110015.	1.1	9
83	In vitro generation of immune cells from pluripotent stem cells. Frontiers in Bioscience - Landmark, 2011, 16, 1488.	3.0	8
84	PHF6 Expression Levels Impact Human Hematopoietic Stem Cell Differentiation. Frontiers in Cell and Developmental Biology, 2020, 8, 599472.	1.8	8
85	Thymic Epithelial Cell Alterations and Defective Thymopoiesis Lead to Central and Peripheral Tolerance Perturbation in MHCII Deficiency. Frontiers in Immunology, 2021, 12, 669943.	2.2	8
86	Small-scale manufacturing of neoantigen-encoding messenger RNA for early-phase clinical trials. Cytotherapy, 2022, 24, 213-222.	0.3	8
87	Expression of the inhibitory Ly49E receptor is not critically involved in the immune response against cutaneous, pulmonary or liver tumours. Scientific Reports, 2016, 6, 30564.	1.6	7
88	ZEB2 in T-cells and T-ALL. Advances in Biological Regulation, 2019, 74, 100639.	1.4	7
89	Human Thymic CD10+ PD-1+ Intraepithelial Lymphocyte Precursors Acquire Interleukin-15 Responsiveness at the CD1aâ€“ CD95+ CD28â€“ CCR7â€“ Developmental Stage. International Journal of Molecular Sciences, 2020, 21, 8785.	1.8	7
90	Tumor necrosis factor promotes T-cell at the expense of B-cell lymphoid development from cultured human CD34+ cord blood cells. Experimental Hematology, 2007, 35, 1272-1278.	0.2	6

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91	T-cell acute lymphoblastic leukemias express a unique truncated FAT1 isoform that cooperates with NOTCH1 in leukemia development. Haematologica, 2019, 104, e204-e207.	1.7	6
92	A DL-4- and TNFÎ±-based culture system to generate high numbers of nonmodified or genetically modified immunotherapeutic human T-lymphoid progenitors. Cellular and Molecular Immunology, 2021, 18, 1662-1676.	4.8	6
93	The Ly49E Receptor Inhibits the Immune Control of Acute Trypanosoma cruzi Infection. Frontiers in Immunology, 2016, 7, 472.	2.2	5
94	Primate lentiviral Nef proteins deregulate T-cell development by multiple mechanisms. Retrovirology, 2013, 10, 137.	0.9	4
95	Contribution of the Ly49E Natural Killer Receptor in the Immune Response to Plasmodium berghei Infection and Control of Hepatic Parasite Development. PLoS ONE, 2014, 9, e87463.	1.1	4
96	The role of Ly49E receptor expression on murine intraepithelial lymphocytes in intestinal cancer development and progression. Cancer Immunology, Immunotherapy, 2016, 65, 1365-1375.	2.0	4
97	T-cells with a single tumor antigen-specific T-cell receptor can be generated in vitro from clinically relevant stem cell sources. OncoImmunology, 2020, 9, 1727078.	2.1	4
98	Characterization and Isolation of Human T Cell Progenitors. Methods in Molecular Biology, 2016, 1323, 221-237.	0.4	3
99	Conventional and Computational Flow Cytometry Analyses Reveal Sustained Human Intrathymic T Cell Development From Birth Until Puberty. Frontiers in Immunology, 2020, 11, 1659.	2.2	3
100	In vitro OP9-DL1 co-culture and subsequent maturation in the presence of IL-21 generates tumor antigen-specific T cells with a favorable less-differentiated phenotype and enhanced functionality. OncoImmunology, 2021, 10, 1954800.	2.1	3
101	Approaches to Study Human T Cell Development. Methods in Molecular Biology, 2016, 1323, 239-251.	0.4	2
102	Modeling of human T cell developmentin vitroas a read-out for hematopoietic stem cell multipotency. Biochemical Society Transactions, 2021, 49, 2113-2122.	1.6	2
103	Human T cell development notched up a level. Nature Methods, 2017, 14, 477-478.	9.0	1
104	Treatment of a patient with severe cytomegalovirus (CMV) infection after haploidentical stem cell transplantation with donor-derived CMV-specific T cells. Acta Clinica Belgica, 2020, 76, 1-5.	0.5	1
105	MicroRNA signatures in Genetic Subtypes of T-Cell Acute Lymphoblastic Leukemia.. Blood, 2008, 112, 3360-3360.	0.6	1
106	CD4 and CD8 TCRÎ±Î² Cells Are selected On MHC Expressed On Thymocyte Precursors in OP9-DL1 Cultures.. Blood, 2009, 114, 3670-3670.	0.6	1
107	Chimeric Antigen Receptor Transgenic, T Cell Receptor/CD3 Negative Monospecific T Cells Generated from Cord Blood CD34 Positive Cells. Blood, 2015, 126, 3087-3087.	0.6	1
108	Multiomics to investigate the mechanisms contributing to repression of PTPRC and SOCS2 in pediatric Tâ€ALL: Focus on miRâ€363â€3p and promoter methylation. Genes Chromosomes and Cancer, 0, , .	1.5	1

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109	Stageâ€dependent molecular changes in Notch signaling are critical for normal human T cell development. FASEB Journal, 2008, 22, 844.3.	0.2	0
110	Generation of T Cells from Human Embryonic Stem Cells.. Blood, 2008, 112, 1527-1527.	0.6	0
111	Regulatory Networks Governed by MicroRNAs in T-ALL Oncogenesis and Normal T-Cell Development. Blood, 2011, 118, 1366-1366.	0.6	0
112	Specific Notch receptorâ€“ligand interactions control human TCR-ab/gd development by inducing differential Notch signal strength. Journal of Cell Biology, 2013, 201, i2-i2.	2.3	0
113	The NOTCH1 Driven Long Non-Coding RNA Repertoire in T-Cell Acute Lymphoblastic Leukemia. Blood, 2014, 124, 900-900.	0.6	0
114	Transcriptional Antagonism Between the Cooperative Oncogenes TLX1 and NOTCH1 in T-Cell Acute Lymphoblastic Leukemia. Blood, 2014, 124, 3588-3588.	0.6	0
115	S860 TARGETING ABERRANT DNA METHYLATION AS A NOVEL AND UNIFORM THERAPEUTIC STRATEGY FOR THE TREATMENT OF Tâ€CELL ACUTE LYMPHOBLASTIC LEUKEMIA AND LYMPHOMA. HemaSphere, 2019, 3, 384-385.	1.2	0
116	PS920ÂPHF6ÂLOSS DRIVES IL7R ONCOGENE ADDICTION IN TLX1 DRIVEN Tâ€ALL. HemaSphere, 2019, 3, 414-415	1.2	0
117	T-BET and EOMES Accelerate and Enhance Functional Differentiation of Human Natural Killer Cells. Frontiers in Immunology, 2021, 12, 732511.	2.2	0
118	Regulation of early T cell development in mouse and human by Notch. Verhandelingen - Koninklijke Academie Voor Geneeskunde Van BelgiÃ«, 2009, 71, 301-14.	0.2	0