

# Frank J T Staal

## List of Publications by Year in descending order

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96  
papers

6,446  
citations

87888

38  
h-index

66911

78  
g-index

102  
all docs

102  
docs citations

102  
times ranked

9251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insertional mutagenesis combined with acquired somatic mutations causes leukemogenesis following gene therapy of SCID-X1 patients. <i>Journal of Clinical Investigation</i> , 2008, 118, 3143-3150.	8.2	1,069
2	WNT signalling in the immune system: WNT is spreading its wings. <i>Nature Reviews Immunology</i> , 2008, 8, 581-593.	22.7	489
3	Integrated Transcript and Genome Analyses Reveal NKX2-1 and MEF2C as Potential Oncogenes in T Cell Acute Lymphoblastic Leukemia. <i>Cancer Cell</i> , 2011, 19, 484-497.	16.8	322
4	New insights on human T cell development by quantitative T cell receptor gene rearrangement studies and gene expression profiling. <i>Journal of Experimental Medicine</i> , 2005, 201, 1715-1723.	8.5	318
5	WNT signalling and haematopoiesis: a WNTâ€“WNT situation. <i>Nature Reviews Immunology</i> , 2005, 5, 21-30.	22.7	293
6	Wnt signals are transmitted through Nâ€“terminally dephosphorylated Î²â€“catenin. <i>EMBO Reports</i> , 2002, 3, 63-68.	4.5	291
7	Canonical Wnt Signaling Regulates Hematopoiesis in a Dosage-Dependent Fashion. <i>Cell Stem Cell</i> , 2011, 9, 345-356.	11.1	277
8	Canonical Wnt Signaling Negatively Modulates Regulatory T Cell Function. <i>Immunity</i> , 2013, 39, 298-310.	14.3	183
9	Wnt signaling is required for thymocyte development and activates Tcf-1 mediated transcription. <i>European Journal of Immunology</i> , 2001, 31, 285-293.	2.9	182
10	Wnt3a deficiency irreversibly impairs hematopoietic stem cell self-renewal and leads to defects in progenitor cell differentiation. <i>Blood</i> , 2009, 113, 546-554.	1.4	171
11	Somatic mutations found in the healthy blood compartment of a 115-yr-old woman demonstrate oligoclonal hematopoiesis. <i>Genome Research</i> , 2014, 24, 733-742.	5.5	136
12	The canonical Wnt signaling pathway plays an important role in lymphopoiesis and hematopoiesis. <i>European Journal of Immunology</i> , 2008, 38, 1788-1794.	2.9	118
13	Wnt signaling in the thymus is regulated by differential expression of intracellular signaling molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3322-3326.	7.1	105
14	Wnt Target Genes Identified by DNA Microarrays in Immature CD34+ Thymocytes Regulate Proliferation and Cell Adhesion. <i>Journal of Immunology</i> , 2004, 172, 1099-1108.	0.8	99
15	Human thymus contains multipotent progenitors with T/B lymphoid, myeloid, and erythroid lineage potential. <i>Blood</i> , 2006, 107, 3131-3137.	1.4	94
16	New Insights and Unresolved Issues Regarding Insertional Mutagenesis in X-linked SCID Gene Therapy. <i>Molecular Therapy</i> , 2007, 15, 1910-1916.	8.2	92
17	Wnt signaling in the thymus. <i>Current Opinion in Immunology</i> , 2003, 15, 204-208.	5.5	77
18	Contrasting Responses of Lymphoid Progenitors to Canonical and Noncanonical Wnt Signals. <i>Journal of Immunology</i> , 2008, 181, 3955-3964.	0.8	76

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19	Tcf-1-mediated transcription in T lymphocytes: differential role for glycogen synthase kinase-3 in fibroblasts and T cells. <i>International Immunology</i> , 1999, 11, 317-323.	4.0	74
20	Prolonged activation of nasal immune cell populations and development of tissue-resident SARS-CoV-2-specific CD8+ T cell responses following COVID-19. <i>Nature Immunology</i> , 2022, 23, 23-32.	14.5	74
21	Ex Vivo Expansion of Hematopoietic Stem Cells for Therapeutic Purposes: Lessons from Development and the Niche. <i>Cells</i> , 2019, 8, 169.	4.1	72
22	Age-related changes in the cellular composition of the thymus in children. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 115, 834-840.	2.9	71
23	Transcriptional Control of T Lymphocyte Differentiation. <i>Stem Cells</i> , 2001, 19, 165-179.	3.2	68
24	The Nuclear Effector of Wnt-Signaling, Tcf1, Functions as a T-Cell-Specific Tumor Suppressor for Development of Lymphomas. <i>PLoS Biology</i> , 2012, 10, e1001430.	5.6	67
25	Aberrant Wnt Signaling in Leukemia. <i>Cancers</i> , 2016, 8, 78.	3.7	67
26	Autologous Stem-Cell-Based Gene Therapy for Inherited Disorders: State of the Art and Perspectives. <i>Frontiers in Pediatrics</i> , 2019, 7, 443.	1.9	66
27	Wnt signaling in hematopoiesis: Crucial factors for self-renewal, proliferation, and cell fate decisions. <i>Journal of Cellular Biochemistry</i> , 2010, 109, 844-849.	2.6	65
28	The development of T cells from stem cells in mice and humans. <i>Future Science OA</i> , 2017, 3, FSO186.	1.9	64
29	Activation of the LMO2 oncogene through a somatically acquired neomorphic promoter in T-cell acute lymphoblastic leukemia. <i>Blood</i> , 2017, 129, 3221-3226.	1.4	61
30	Endothelial Progenitor Cell Dysfunction in Type 1 Diabetes: Another Consequence of Oxidative Stress?. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 1468-1475.	5.4	59
31	High Levels of Canonical Wnt Signaling Lead to Loss of Stemness and Increased Differentiation in Hematopoietic Stem Cells. <i>Stem Cell Reports</i> , 2016, 6, 652-659.	4.8	53
32	Loss of CD44dim Expression from Early Progenitor Cells Marks T-Cell Lineage Commitment in the Human Thymus. <i>Frontiers in Immunology</i> , 2017, 8, 32.	4.8	53
33	Biology and novel treatment options for XLA, the most common monogenetic immunodeficiency in man. <i>Expert Opinion on Therapeutic Targets</i> , 2011, 15, 1003-1021.	3.4	51
34	Inflammation and Wnt Signaling: Target for Immunomodulatory Therapy?. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 615131.	3.7	49
35	T-sing progenitors to commit. <i>Trends in Immunology</i> , 2006, 27, 125-131.	6.8	48
36	Is IL2RG oncogenic in T-cell development?. <i>Nature</i> , 2006, 443, E5-E5.	27.8	48

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37	Caught in a Wnt storm: Complexities of Wnt signaling in hematopoiesis. <i>Experimental Hematology</i> , 2016, 44, 451-457.	0.4	47
38	CD4+ T-cell counts and interleukin-8 and CCL-5 plasma concentrations discriminate disease severity in children with RSV infection. <i>Pediatric Research</i> , 2013, 73, 187-193.	2.3	46
39	T Cell Factor 1 Represses CD8+ Effector T Cell Formation and Function. <i>Journal of Immunology</i> , 2014, 193, 5480-5487.	0.8	46
40	Blocking of the High-Affinity Interaction-Synapse Between SARS-CoV-2 Spike and Human ACE2 Proteins Likely Requires Multiple High-Affinity Antibodies: An Immune Perspective. <i>Frontiers in Immunology</i> , 2020, 11, 570018.	4.8	43
41	TCF-1-mediated Wnt signaling regulates Paneth cell innate immune defense effectors HD-5 and -6: implications for Crohn's disease. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, G487-G498.	3.4	41
42	Successful Preclinical Development of Gene Therapy for Recombinase-Activating Gene-1-Deficient SCID. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 17, 666-682.	4.1	37
43	Wnt3a nonredundantly controls hematopoietic stem cell function and its deficiency results in complete absence of canonical Wnt signaling. <i>Blood</i> , 2010, 116, 496-497.	1.4	36
44	Thyrotropin Acts as a T-Cell Developmental Factor in Mice and Humans. <i>Thyroid</i> , 2014, 24, 1051-1061.	4.5	35
45	Development of a diverse human T-cell repertoire despite stringent restriction of hematopoietic clonality in the thymus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6020-7.	7.1	34
46	The Quantity of Autocrine IL-2 Governs the Expansion Potential of CD8+ T Cells. <i>Journal of Immunology</i> , 2015, 195, 4792-4801.	0.8	34
47	The composition and differentiation potential of the duodenal intraepithelial innate lymphocyte compartment is altered in coeliac disease. <i>Gut</i> , 2016, 65, 1269-1278.	12.1	34
48	Gfi1b regulates the level of Wnt/ $\beta$ -catenin signaling in hematopoietic stem cells and megakaryocytes. <i>Nature Communications</i> , 2019, 10, 1270.	12.8	31
49	Sustained Engraftment of Cryopreserved Human Bone Marrow CD34 <sup>+</sup> Cells in Young Adult NSG Mice. <i>BioResearch Open Access</i> , 2014, 3, 110-116.	2.6	30
50	Visualizing Human Hematopoietic Stem Cell Trafficking In Vivo Using a Zebrafish Xenograft Model. <i>Stem Cells and Development</i> , 2016, 25, 360-365.	2.1	30
51	Functional definition of a transcription factor hierarchy regulating T cell lineage commitment. <i>Science Advances</i> , 2020, 6, eaaw7313.	10.3	30
52	Identification of checkpoints in human T-cell development using severe combined immunodeficiency stem cells. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 517-526.e3.	2.9	26
53	De novo generation of a functional human thymus from induced pluripotent stem cells. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 1416-1419.e7.	2.9	26
54	The non-canonical Wnt receptor Ryk regulates hematopoietic stem cell repopulation in part by controlling proliferation and apoptosis. <i>Cell Death and Disease</i> , 2016, 7, e2479-e2479.	6.3	22

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55	JDP2: An oncogenic bZIP transcription factor in T cell acute lymphoblastic leukemia. <i>Journal of Experimental Medicine</i> , 2018, 215, 1929-1945.	8.5	22
56	Successful RAG1-SCID gene therapy depends on the level of RAG1 expression. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 134, 242-243.	2.9	20
57	Wnt Signaling as Master Regulator of T-Lymphocyte Responses. <i>Transplantation</i> , 2016, 100, 2584-2592.	1.0	19
58	iPSC-Based Modeling of RAG2 Severe Combined Immunodeficiency Reveals Multiple T Cell Developmental Arrests. <i>Stem Cell Reports</i> , 2020, 14, 300-311.	4.8	18
59	An integrated approach of gene expression and DNA-methylation profiles of WNT signaling genes uncovers novel prognostic markers in Acute Myeloid Leukemia. <i>BMC Bioinformatics</i> , 2015, 16, S4.	2.6	17
60	Differential requirements for Wnt and Notch signaling in hematopoietic versus thymic niches. <i>Annals of the New York Academy of Sciences</i> , 2012, 1266, 78-93.	3.8	15
61	Combined TCRG and TCRA TREC analysis reveals increased peripheral T-lymphocyte but constant intra-thymic proliferative history upon ageing. <i>Molecular Immunology</i> , 2013, 53, 302-312.	2.2	14
62	WNT Proteins: Environmental Factors Regulating HSC Fate in the Niche. <i>Annals of the New York Academy of Sciences</i> , 2009, 1176, 70-76.	3.8	12
63	Axin2 $\rightarrow$ Turquoise2: A novel reporter mouse model for the detection of canonical Wnt signalling. <i>Genesis</i> , 2017, 55, e23068.	1.6	12
64	The Effects of Selective Hematopoietic Expression of Human IL-37 on Systemic Inflammation and Atherosclerosis in LDLr-Deficient Mice. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1672.	4.1	12
65	Cell Signaling Pathway Reporters in Adult Hematopoietic Stem Cells. <i>Cells</i> , 2020, 9, 2264.	4.1	11
66	Wnt signaling in leukemias and myeloma: T-cell factors are in control. <i>Future Oncology</i> , 2013, 9, 1757-1772.	2.4	10
67	Overexpression of LMO2 causes aberrant human T-Cell development in vivo by three potentially distinct cellular mechanisms. <i>Experimental Hematology</i> , 2016, 44, 838-849.e9.	0.4	10
68	Dynamic clonal hematopoiesis and functional T-cell immunity in a supercentenarian. <i>Leukemia</i> , 2021, 35, 2125-2129.	7.2	9
69	Combining Mobilizing Agents with Busulfan to Reduce Chemotherapy-Based Conditioning for Hematopoietic Stem Cell Transplantation. <i>Cells</i> , 2021, 10, 1077.	4.1	9
70	Tales of the Unexpected: Tcf1 Functions as a Tumor Suppressor for Leukemias. <i>Immunity</i> , 2012, 37, 761-763.	14.3	8
71	Strategies for thymus regeneration and generating thymic organoids. <i>Journal of Immunology and Regenerative Medicine</i> , 2021, 14, 100052.	0.4	8
72	Novel insights into the development of T-cell acute lymphoblastic leukemia. <i>Current Hematologic Malignancy Reports</i> , 2007, 2, 176-182.	2.3	7

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73	B-1 cells and B-1 cell precursors prompt different responses to Wnt signaling. <i>PLoS ONE</i> , 2018, 13, e0199332.	2.5	7
74	Preclinical Development of Autologous Hematopoietic Stem Cell-Based Gene Therapy for Immune Deficiencies: A Journey from Mouse Cage to Bed Side. <i>Pharmaceutics</i> , 2020, 12, 549.	4.5	7
75	A Small Key for a Heavy Door: Genetic Therapies for the Treatment of Hemoglobinopathies. <i>Frontiers in Genome Editing</i> , 2020, 2, 617780.	5.2	7
76	Regulation of Lineage Commitment during Lymphocyte Development. <i>International Reviews of Immunology</i> , 2001, 20, 45-64.	3.3	6
77	Induced pluripotent stem cells and severe combined immunodeficiency: merely disease modeling or potentially a novel cure?. <i>Pediatric Research</i> , 2012, 71, 427-432.	2.3	6
78	The functional relationship between hematopoietic stem cells and developing T lymphocytes. <i>Annals of the New York Academy of Sciences</i> , 2016, 1370, 36-44.	3.8	6
79	Development of an <i>in vivo</i> model to study clonal lineage relationships in hematopoietic cells using <i>Brainbow2.1/Confetti</i> mice. <i>Future Science OA</i> , 2019, 5, FSO427.	1.9	6
80	A DL-4- and TNF $\pm$ -based culture system to generate high numbers of nonmodified or genetically modified immunotherapeutic human T-lymphoid progenitors. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1662-1676.	10.5	6
81	Wnt signalling meets epigenetics. <i>Stem Cell Investigation</i> , 2016, 3, 38-38.	3.0	5
82	Genomic Engineering in Human Hematopoietic Stem Cells: Hype or Hope?. <i>Frontiers in Genome Editing</i> , 2020, 2, 615619.	5.2	5
83	The Route of Early T Cell Development: Crosstalk between Epigenetic and Transcription Factors. <i>Cells</i> , 2021, 10, 1074.	4.1	5
84	ImSpectR: R package to quantify immune repertoire diversity in spectratype and repertoire sequencing data. <i>Bioinformatics</i> , 2020, 36, 1930-1932.	4.1	3
85	Cell intrinsic regulation of external hematopoietic stem cell stress. <i>Stem Cell Investigation</i> , 2018, 5, 16-16.	3.0	1
86	An adequate human T cell repertoire from a single T cell progenitor: Lessons from an experiment of nature. <i>EBioMedicine</i> , 2020, 60, 103015.	6.1	1
87	BETting on stem cell expansion. <i>Blood</i> , 2020, 136, 2364-2365.	1.4	1
88	Flow Cytometry and Confocal Imaging Analysis of Low Wnt Expression in Axin2-mTurquoise2 Reporter Thymocytes. <i>Journal of Visualized Experiments</i> , 2021, . .	0.3	1
89	Gene expression profiling in acute lymphoblastic leukemia (ALL). <i>Laboratory Hematology: Official Publication of the International Society for Laboratory Hematology</i> , 2004, 10, 178-81.	1.2	1
90	Stem Cell-Based Disease Models for Inborn Errors of Immunity. <i>Cells</i> , 2022, 11, 108.	4.1	1

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91	The EHA Research Roadmap: Hematopoietic Stem Cells and Allogeneic Transplantation. <i>HemaSphere</i> , 2022, 6, e0714.	2.7	1
92	Uncontrolled Wnt signaling causes leukemia. <i>Blood</i> , 2007, 109, 5073-5074.	1.4	0
93	Wnt cross-talk in the niche. <i>Blood</i> , 2012, 119, 1618-1619.	1.4	0
94	Differential Effects of Delta1 and Jagged1 in Early Human Myelopoiesis: Correlation with Distinct Gene-Expression Profiles in CD34+ Cells. <i>Blood</i> , 2004, 104, 2786-2786.	1.4	0
95	Comparative Analysis of Gene Expression Profiles between Diagnosis and Relapse of Childhood Acute Lymphoblastic Leukemia. <i>Blood</i> , 2007, 110, 2809-2809.	1.4	0
96	Hematopoiesis and Lymphocyte Development: An Introduction. , 2019, , 9-21.		0