Frank J T Staal

List of Publications by Year
in descending order

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	Stem Cell-Based Disease Models for Inborn Errors of Immunity. Cells, 2022, 11, 108.	4.1	1
2	Prolonged activation of nasal immune cell populations and development of tissue-resident SARS-CoV-2-specific CD8+ T cell responses following COVID-19. Nature Immunology, 2022, 23, 23-32.	14.5	74
3	The EHA Research Roadmap: Hematopoietic Stem Cells and Allotransplantation. HemaSphere, 2022, 6, e0714.	2.7	1
4	Dynamic clonal hematopoiesis and functional T-cell immunity in a supercentenarian. Leukemia, 2021, 35, 2125-2129.	7.2	9
5	The Route of Early T Cell Development: Crosstalk between Epigenetic and Transcription Factors. Cells, 2021, 10, 1074.	4.1	5
6	Combining Mobilizing Agents with Busulfan to Reduce Chemotherapy-Based Conditioning for Hematopoietic Stem Cell Transplantation. Cells, 2021, 10, 1077.	4.1	9
7	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.	10.5	6
8	Flow Cytometry and Confocal Imaging Analysis of Low Wnt Expression in Axin2-mTurquoise2 Reporter Thymocytes. Journal of Visualized Experiments, 2021, , .	0.3	1
9	Strategies for thymus regeneration and generating thymic organoids. Journal of Immunology and Regenerative Medicine, 2021, 14, 100052.	0.4	8
10	ImSpectR: R package to quantify immune repertoire diversity in spectratype and repertoire sequencing data. Bioinformatics, 2020, 36, 1930-1932.	4.1	3
11	Cell Signaling Pathway Reporters in Adult Hematopoietic Stem Cells. Cells, 2020, 9, 2264.	4.1	11
12	Functional definition of a transcription factor hierarchy regulating T cell lineage commitment. Science Advances, 2020, 6, eaaw7313.	10.3	30
13	An adequate human T cell repertoire from a single T cell progenitor: Lessons from an experiment of nature. EBioMedicine, 2020, 60, 103015.	6.1	1
14	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. Frontiers in Immunology, 2020, 11, 570018.	4.8	43
15	BETting on stem cell expansion. Blood, 2020, 136, 2364-2365.	1.4	1
16	Preclinical Development of Autologous Hematopoietic Stem Cell-Based Gene Therapy for Immune Deficiencies: A Journey from Mouse Cage to Bed Side. Pharmaceutics, 2020, 12, 549.	4.5	7
17	iPSC-Based Modeling of RAG2 Severe Combined Immunodeficiency Reveals Multiple T Cell Developmental Arrests. Stem Cell Reports, 2020, 14, 300-311.	4.8	18
18	Successful Preclinical Development of Gene Therapy for Recombinase-Activating Gene-1-Deficient SCID. Molecular Therapy - Methods and Clinical Development, 2020, 17, 666-682.	4.1	37

#	Article	IF	Citations
19	Genomic Engineering in Human Hematopoietic Stem Cells: Hype or Hope?. Frontiers in Genome Editing, 2020, 2, 615619.	5.2	5
20	A Small Key for a Heavy Door: Genetic Therapies for the Treatment of Hemoglobinopathies. Frontiers in Genome Editing, 2020, 2, 617780.	5.2	7
21	Inflammation and Wnt Signaling: Target for Immunomodulatory Therapy?. Frontiers in Cell and Developmental Biology, 2020, 8, 615131.	3.7	49
22	De novo generation of a functional human thymus from induced pluripotent stem cells. Journal of Allergy and Clinical Immunology, 2019, 144, 1416-1419.e7.	2.9	26
23	Gfi1b regulates the level of Wnt/Î²-catenin signaling in hematopoietic stem cells and megakaryocytes. Nature Communications, 2019, 10, 1270.	12.8	31
24	Ex Vivo Expansion of Hematopoietic Stem Cells for Therapeutic Purposes: Lessons from Development and the Niche. Cells, 2019, 8, 169.	4.1	72
25	Autologous Stem-Cell-Based Gene Therapy for Inherited Disorders: State of the Art and Perspectives. Frontiers in Pediatrics, 2019, 7, 443.	1.9	66
26	Development of an<i>in vivo</i>model to study clonal lineage relationships in hematopoietic cells using<i>Brainbow2.1/Confetti</i>mice. Future Science OA, 2019, 5, FSO427.	1.9	6
27	Hematopoiesis and Lymphocyte Development: An Introduction. , 2019, , 9-21.		0
28	Cell intrinsic regulation of external hematopoietic stem cell stress. Stem Cell Investigation, 2018, 5, 16-16.	3.0	1
29	B-1 cells and B-1 cell precursors prompt different responses to Wnt signaling. PLoS ONE, 2018, 13, e0199332.	2.5	7
30	JDP2: An oncogenic bZIP transcription factor in T cell acute lymphoblastic leukemia. Journal of Experimental Medicine, 2018, 215, 1929-1945.	8.5	22
31	Activation of the LMO2 oncogene through a somatically acquired neomorphic promoter in T-cell acute lymphoblastic leukemia. Blood, 2017, 129, 3221-3226.	1.4	61
32	The development of T cells from stem cells in mice and humans. Future Science OA, 2017, 3, FSO186.	1.9	64
33	Axin2â€mTurquoise2: A novel reporter mouse model for the detection of canonical Wnt signalling. Genesis, 2017, 55, e23068.	1.6	12
34	The Effects of Selective Hematopoietic Expression of Human IL-37 on Systemic Inflammation and Atherosclerosis in LDLr-Deficient Mice. International Journal of Molecular Sciences, 2017, 18, 1672.	4.1	12
35	Loss of CD44dim Expression from Early Progenitor Cells Marks T-Cell Lineage Commitment in the Human Thymus. Frontiers in Immunology, 2017, 8, 32.	4.8	53
36	Wnt signalling meets epigenetics. Stem Cell Investigation, 2016, 3, 38-38.	3.0	5

#	Article	IF	Citations
37	Aberrant Wnt Signaling in Leukemia. Cancers, 2016, 8, 78.	3.7	67
38	Wnt Signaling as Master Regulator of T-Lymphocyte Responses. Transplantation, 2016, 100, 2584-2592.	1.0	19
39	High Levels of Canonical Wnt Signaling Lead to Loss of Stemness and Increased Differentiation in Hematopoietic Stem Cells. Stem Cell Reports, 2016, 6, 652-659.	4.8	53
40	The non-canonical Wnt receptor Ryk regulates hematopoietic stem cell repopulation in part by controlling proliferation and apoptosis. Cell Death and Disease, 2016, 7, e2479-e2479.	6.3	22
41	The functional relationship between hematopoietic stem cells and developing T lymphocytes. Annals of the New York Academy of Sciences, 2016, 1370, 36-44.	3.8	6
42	Overexpression of LMO2 causes aberrant human T-Cell development inÂvivo by three potentially distinct cellular mechanisms. Experimental Hematology, 2016, 44, 838-849.e9.	0.4	10
43	The composition and differentiation potential of the duodenal intraepithelial innate lymphocyte compartment is altered in coeliac disease. Gut, 2016, 65, 1269-1278.	12.1	34
44	Visualizing Human Hematopoietic Stem Cell Trafficking In Vivo Using a Zebrafish Xenograft Model. Stem Cells and Development, 2016, 25, 360-365.	2.1	30
45	Caught in a Wnt storm: Complexities of Wnt signaling in hematopoiesis. Experimental Hematology, 2016, 44, 451-457.	0.4	47
46	Identification of checkpoints in human T-cell development using severe combined immunodeficiency stem cells. Journal of Allergy and Clinical Immunology, 2016, 137, 517-526.e3.	2.9	26
47	An integrated approach of gene expression and DNA-methylation profiles of WNT signaling genes uncovers novel prognostic markers in Acute Myeloid Leukemia. BMC Bioinformatics, 2015, 16, S4.	2.6	17
48	Development of a diverse human T-cell repertoire despite stringent restriction of hematopoietic clonality in the thymus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6020-7.	7.1	34
49	The Quantity of Autocrine IL-2 Governs the Expansion Potential of CD8+ T Cells. Journal of Immunology, 2015, 195, 4792-4801.	0.8	34
50	Thyrotropin Acts as a T-Cell Developmental Factor in Mice and Humans. Thyroid, 2014, 24, 1051-1061.	4.5	35
51	Somatic mutations found in the healthy blood compartment of a 115-yr-old woman demonstrate oligoclonal hematopoiesis. Genome Research, 2014, 24, 733-742.	5.5	136
52	T Cell Factor 1 Represses CD8+ Effector T Cell Formation and Function. Journal of Immunology, 2014, 193, 5480-5487.	0.8	46
53	Sustained Engraftment of Cryopreserved Human Bone Marrow CD34⁺Cells in Young Adult NSG Mice. BioResearch Open Access, 2014, 3, 110-116.	2.6	30
54	Successful RAG1-SCID gene therapy depends on the level of RAG1 expression. Journal of Allergy and Clinical Immunology, 2014, 134, 242-243.	2.9	20

#	Article	IF	Citations
55	TCF-1-mediated Wnt signaling regulates Paneth cell innate immune defense effectors HD-5 and -6: implications for Crohn's disease. American Journal of Physiology - Renal Physiology, 2014, 307, G487-G498.	3.4	41
56	Canonical Wnt Signaling Negatively Modulates Regulatory T Cell Function. Immunity, 2013, 39, 298-310.	14.3	183
57	CD4+ T-cell counts and interleukin-8 and CCL-5 plasma concentrations discriminate disease severity in children with RSV infection. Pediatric Research, 2013, 73, 187-193.	2.3	46
58	Combined TCRG and TCRA TREC analysis reveals increased peripheral T-lymphocyte but constant intra-thymic proliferative history upon ageing. Molecular Immunology, 2013, 53, 302-312.	2.2	14
59	Wnt signaling in leukemias and myeloma: T-cell factors are in control. Future Oncology, 2013, 9, 1757-1772.	2.4	10
60	The Nuclear Effector of Wnt-Signaling, Tcf1, Functions as a T-Cellâ€"Specific Tumor Suppressor for Development of Lymphomas. PLoS Biology, 2012, 10, e1001430.	5.6	67
61	Differential requirements for Wnt and Notch signaling in hematopoietic versus thymic niches. Annals of the New York Academy of Sciences, 2012, 1266, 78-93.	3.8	15
62	Induced pluripotent stem cells and severe combined immunodeficiency: merely disease modeling or potentially a novel cure?. Pediatric Research, 2012, 71, 427-432.	2.3	6
63	Tales of the Unexpected: Tcf1 Functions as a Tumor Suppressor for Leukemias. Immunity, 2012, 37, 761-763.	14.3	8
64	Wnt cross-talk in the niche. Blood, 2012, 119, 1618-1619.	1.4	0
65	Canonical Wnt Signaling Regulates Hematopoiesis in a Dosage-Dependent Fashion. Cell Stem Cell, 2011, 9, 345-356.	11.1	277
66	Integrated Transcript and Genome Analyses Reveal NKX2-1 and MEF2C as Potential Oncogenes in T Cell Acute Lymphoblastic Leukemia. Cancer Cell, 2011, 19, 484-497.	16.8	322
67	Biology and novel treatment options for XLA, the most common monogenetic immunodeficiency in man. Expert Opinion on Therapeutic Targets, 2011, 15, 1003-1021.	3.4	51
68	Wnt3a nonredundantly controls hematopoietic stem cell function and its deficiency results in complete absence of canonical Wnt signaling. Blood, 2010, 116, 496-497.	1.4	36
69	Wnt signaling in hematopoiesis: Crucial factors for selfâ€renewal, proliferation, and cell fate decisions. Journal of Cellular Biochemistry, 2010, 109, 844-849.	2.6	65
70	Wnt3a deficiency irreversibly impairs hematopoietic stem cell self-renewal and leads to defects in progenitor cell differentiation. Blood, 2009, 113, 546-554.	1.4	171
71	WNT Proteins: Environmental Factors Regulating HSC Fate in the Niche. Annals of the New York Academy of Sciences, 2009, 1176, 70-76.	3.8	12
72	The canonical Wnt signaling pathway plays an important role in lymphopoiesis and hematopoiesis. European Journal of Immunology, 2008, 38, 1788-1794.	2.9	118

#	Article	IF	Citations
73	WNT signalling in the immune system: WNT is spreading its wings. Nature Reviews Immunology, 2008, 8, 581-593.	22.7	489
74	Contrasting Responses of Lymphoid Progenitors to Canonical and Noncanonical Wnt Signals. Journal of Immunology, 2008, 181, 3955-3964.	0.8	76
75	Insertional mutagenesis combined with acquired somatic mutations causes leukemogenesis following gene therapy of SCID-X1 patients. Journal of Clinical Investigation, 2008, 118, 3143-3150.	8.2	1,069
76	New Insights and Unresolved Issues Regarding Insertional Mutagenesis in X-linked SCID Gene Therapy. Molecular Therapy, 2007, 15, 1910-1916.	8.2	92
77	Uncontrolled Wnt signaling causes leukemia. Blood, 2007, 109, 5073-5074.	1.4	0
78	Novel insights into the development of T-cell acute lymphoblastic leukemia. Current Hematologic Malignancy Reports, 2007, 2, 176-182.	2.3	7
79	Comparative Analysis of Gene Expression Profiles between Diagnosis and Relapse of Childhood Acute Lymphoblastic Leukemia.. Blood, 2007, 110, 2809-2809.	1.4	0
80	Human thymus contains multipotent progenitors with T/B lymphoid, myeloid, and erythroid lineage potential. Blood, 2006, 107, 3131-3137.	1.4	94
81	T-sing progenitors to commit. Trends in Immunology, 2006, 27, 125-131.	6.8	48
82	Is IL2RG oncogenic in T-cell development?. Nature, 2006, 443, E5-E5.	27.8	48
83	Wnt signaling in the thymus is regulated by differential expression of intracellular signaling molecules. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3322-3326.	7.1	105
84	WNT signalling and haematopoiesis: a WNTâ€"WNT situation. Nature Reviews Immunology, 2005, 5, 21-30.	22.7	293
85	New insights on human T cell development by quantitative T cell receptor gene rearrangement studies and gene expression profiling. Journal of Experimental Medicine, 2005, 201, 1715-1723.	8.5	318
86	Age-related changes in the cellular composition of the thymus in children. Journal of Allergy and Clinical Immunology, 2005, 115, 834-840.	2.9	71
87	Endothelial Progenitor Cell Dysfunction in Type 1 Diabetes: Another Consequence of Oxidative Stress?. Antioxidants and Redox Signaling, 2005, 7, 1468-1475.	5.4	59
88	Wnt Target Genes Identified by DNA Microarrays in Immature CD34+ Thymocytes Regulate Proliferation and Cell Adhesion. Journal of Immunology, 2004, 172, 1099-1108.	0.8	99
89	Differential Effects of Delta1 and Jagged1 in Early Human Myelopoiesis: Correlation with Distinct Gene-Expression Profiles in CD34+ Cells.. Blood, 2004, 104, 2786-2786.	1.4	0
90	Gene expression profiling in acute lymphoblastic leukemia (ALL). Laboratory Hematology: Official Publication of the International Society for Laboratory Hematology, 2004, 10, 178-81.	1.2	1

#	Article	IF	Citations
91	Wnt signaling in the thymus. Current Opinion in Immunology, 2003, 15, 204-208.	5.5	77
92	Wnt signals are transmitted through Nâ€terminally dephosphorylated Î²â€catenin. EMBO Reports, 2002, 3, 63-68.	4.5	291
93	Wnt signaling is required for thymocyte development and activates Tcf-1 mediated transcription. European Journal of Immunology, 2001, 31, 285-293.	2.9	182
94	Transcriptional Control of T Lymphocyte Differentiation. Stem Cells, 2001, 19, 165-179.	3.2	68
95	Regulation of Lineage Commitment during Lymphocyte Development. International Reviews of Immunology, 2001, 20, 45-64.	3.3	6
96	Tcf-1-mediated transcription in T lymphocytes: differential role for glycogen synthase kinase-3 in fibroblasts and T cells. International Immunology, 1999, 11, 317-323.	4.0	74