

# Georg A Holländer

## List of Publications by Year in descending order

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111  
papers

9,550  
citations

43973

48  
h-index

38300

95  
g-index

118  
all docs

118  
docs citations

118  
times ranked

11014  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the immune system in humans from infancy to old age. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20143085.	1.2	1,054
2	Thymic selection threshold defined by compartmentalization of Ras/MAPK signalling. Nature, 2006, 444, 724-729.	13.7	531
3	Delta-like 4 is indispensable in thymic environment specific for T cell development. Journal of Experimental Medicine, 2008, 205, 2507-2513.	4.2	332
4	Population and single-cell genomics reveal the <i>Aire</i> dependency, relief from Polycomb silencing, and distribution of self-antigen expression in thymic epithelia. Genome Research, 2014, 24, 1918-1931.	2.4	308
5	$\hat{I}^2$ cells are responsible for CXCR3-mediated T-cell infiltration in insulinitis. Nature Medicine, 2002, 8, 1414-1420.	15.2	298
6	Autoimmune Polyendocrine Syndrome Type 1 and NALP5, a Parathyroid Autoantigen. New England Journal of Medicine, 2008, 358, 1018-1028.	13.9	270
7	Generation of a complete thymic microenvironment by MTS24+ thymic epithelial cells. Nature Immunology, 2002, 3, 635-642.	7.0	269
8	Developmental control point in induction of thymic cortex regulated by a subpopulation of prothymocytes. Nature, 1995, 373, 350-353.	13.7	268
9	Aire-dependent production of XCL1 mediates medullary accumulation of thymic dendritic cells and contributes to regulatory T cell development. Journal of Experimental Medicine, 2011, 208, 383-394.	4.2	262
10	Wnt glycoproteins regulate the expression of FoxN1, the gene defective in nude mice. Nature Immunology, 2002, 3, 1102-1108.	7.0	248
11	Normal Thymic Architecture and Negative Selection Are Associated with <i>Aire</i> Expression, the Gene Defective in the Autoimmune-Polyendocrinopathy-Candidiasis-Ectodermal Dystrophy (APECED). Journal of Immunology, 2000, 165, 1976-1983.	0.4	239
12	Matrix Metalloproteinase (MMP)-8 and MMP-9 in Cerebrospinal Fluid during Bacterial Meningitis: Association with Blood-Brain Barrier Damage and Neurological Sequelae. Clinical Infectious Diseases, 2000, 31, 80-84.	2.9	228
13	Monoallelic Expression of the Interleukin-2 Locus. Science, 1998, 279, 2118-2121.	6.0	223
14	Autoantigen-Specific Interactions with CD4+ Thymocytes Control Mature Medullary Thymic Epithelial Cell Cellularity. Immunity, 2008, 29, 451-463.	6.6	219
15	Sustained thymopoiesis and improvement in functional immunity induced by exogenous KGF administration in murine models of aging. Blood, 2007, 109, 2529-2537.	0.6	208
16	Keratinocyte growth factor preserves normal thymopoiesis and thymic microenvironment during experimental graft-versus-host disease. Blood, 2002, 100, 682-691.	0.6	197
17	Severe colitis in mice with aberrant thymic selection. Immunity, 1995, 3, 27-38.	6.6	186
18	Keratinocyte growth factor (KGF) enhances postnatal T-cell development via enhancements in proliferation and function of thymic epithelial cells. Blood, 2007, 109, 3803-3811.	0.6	185

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19	Thymic T-cell development in allogeneic stem cell transplantation. <i>Blood</i> , 2011, 117, 6768-6776.	0.6	184
20	Cyclosporin A and FK506: molecular mechanisms of immunosuppression and probes for transplantation biology. <i>Current Opinion in Immunology</i> , 1993, 5, 763-773.	2.4	161
21	Foxn1 regulates key target genes essential for T cell development in postnatal thymic epithelial cells. <i>Nature Immunology</i> , 2016, 17, 1206-1215.	7.0	142
22	Aire-expressing thymic medullary epithelial cells originate from $\hat{I}25t$ -expressing progenitor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9885-9890.	3.3	135
23	Thymic microenvironments, 3-D versus 2-D?. <i>Seminars in Immunology</i> , 1999, 11, 57-64.	2.7	128
24	The role of CCL21 in recruitment of T-precursor cells to fetal thymi. <i>Blood</i> , 2005, 105, 31-39.	0.6	126
25	Expression of pro-inflammatory cytokines by $TCR\hat{I}2+T$ and $TCR\hat{I}3+T$ cells in an experimental model of colitis. <i>European Journal of Immunology</i> , 1997, 27, 17-25.	1.6	121
26	CD161 <sup>int</sup> CD8 <sup>+</sup> T cells: a novel population of highly functional, memory CD8 <sup>+</sup> T cells enriched within the gut. <i>Mucosal Immunology</i> , 2016, 9, 401-413.	2.7	121
27	$\hat{I}2$ cells are responsible for CXCR3-mediated T-cell infiltration in insulinitis. <i>Nature Medicine</i> , 2002, 8, 1414-1420.	15.2	113
28	Keratinocyte growth factor and androgen blockade work in concert to protect against conditioning regimen-induced thymic epithelial damage and enhance T-cell reconstitution after murine bone marrow transplantation. <i>Blood</i> , 2008, 111, 5734-5744.	0.6	107
29	Nitric oxide production and Fas surface expression mediate two independent pathways of cytokine-induced murine beta-cell damage. <i>Diabetes</i> , 2000, 49, 39-47.	0.3	106
30	Rituximab plus CHOP for treatment of diffuse large B-cell lymphoma during second trimester of pregnancy. <i>Lancet Oncology</i> , The, 2006, 7, 693-694.	5.1	104
31	Cellular and molecular events during early thymus development. <i>Immunological Reviews</i> , 2006, 209, 28-46.	2.8	102
32	Essential role for autophagy during invariant NKT cell development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5678-87.	3.3	95
33	Leucine-rich repeat containing 8A (LRRC8A) is essential for T lymphocyte development and function. <i>Journal of Experimental Medicine</i> , 2014, 211, 929-942.	4.2	95
34	CAR-T Cells: A Systematic Review and Mixed Methods Analysis of the Clinical Trial Landscape. <i>Molecular Therapy</i> , 2018, 26, 342-353.	3.7	95
35	GLI3 Constrains Digit Number by Controlling Both Progenitor Proliferation and BMP-Dependent Exit to Chondrogenesis. <i>Developmental Cell</i> , 2012, 22, 837-848.	3.1	94
36	Ageing compromises mouse thymus function and remodels epithelial cell differentiation. <i>ELife</i> , 2020, 9, .	2.8	92

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37	Donor T-cell alloreactivity against host thymic epithelium limits T-cell development after bone marrow transplantation. <i>Blood</i> , 2007, 109, 4080-4088.	0.6	87
38	Stabilized $\beta$ -Catenin in Thymic Epithelial Cells Blocks Thymus Development and Function. <i>Journal of Immunology</i> , 2009, 182, 2997-3007.	0.4	72
39	Impaired thymic expression of tissue-restricted antigens licenses the de novo generation of autoreactive CD4+ T cells in acute GVHD. <i>Blood</i> , 2015, 125, 2720-2723.	0.6	69
40	Adult Thymic Medullary Epithelium Is Maintained and Regenerated by Lineage-Restricted Cells Rather Than Bipotent Progenitors. <i>Cell Reports</i> , 2015, 13, 1432-1443.	2.9	69
41	Emerging strategies to boost thymic function. <i>Current Opinion in Pharmacology</i> , 2010, 10, 443-453.	1.7	67
42	Short-term inhibition of p53 combined with keratinocyte growth factor improves thymic epithelial cell recovery and enhances T-cell reconstitution after murine bone marrow transplantation. <i>Blood</i> , 2010, 115, 1088-1097.	0.6	66
43	IL-7 Produced by Thymic Epithelial Cells Plays a Major Role in the Development of Thymocytes and TCR $\beta$ + Intraepithelial Lymphocytes. <i>Journal of Immunology</i> , 2013, 190, 6173-6179.	0.4	63
44	Biologically indeterminate yet ordered promiscuous gene expression in single medullary thymic epithelial cells. <i>EMBO Journal</i> , 2020, 39, e101828.	3.5	63
45	A regulatory role for TGF- $\beta$ signaling in the establishment and function of the thymic medulla. <i>Nature Immunology</i> , 2014, 15, 554-561.	7.0	60
46	Induction of alloantigen-specific tolerance by B cells from CD40-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 4994-4998.	3.3	59
47	High-resolution 3D imaging uncovers organ-specific vascular control of tissue aging. <i>Science Advances</i> , 2021, 7, .	4.7	59
48	Dynamic spatio-temporal contribution of single $\beta$ 25t+ cortical epithelial precursors to the thymus medulla. <i>European Journal of Immunology</i> , 2016, 46, 846-856.	1.6	56
49	Intrathymic expression of Flt3 ligand enhances thymic recovery after irradiation. <i>Journal of Experimental Medicine</i> , 2008, 205, 523-531.	4.2	54
50	MicroRNAs Control the Maintenance of Thymic Epithelia and Their Competence for T Lineage Commitment and Thymocyte Selection. <i>Journal of Immunology</i> , 2012, 189, 3894-3904.	0.4	54
51	RANK links thymic regulatory T cells to fetal loss and gestational diabetes in pregnancy. <i>Nature</i> , 2021, 589, 442-447.	13.7	52
52	A critical epithelial survival axis regulated by MCL-1 maintains thymic function in mice. <i>Blood</i> , 2017, 130, 2504-2515.	0.6	40
53	Phosphatidylinositol 3-Kinase Signaling in Thymocytes: The Need for Stringent Control. <i>Science Signaling</i> , 2010, 3, re5.	1.6	39
54	Maturing Human CD127+ CCR7+ PDL1+ Dendritic Cells Express AIRE in the Absence of Tissue Restricted Antigens. <i>Frontiers in Immunology</i> , 2018, 9, 2902.	2.2	38

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55	Clearing the AIRE: On the Pathophysiological Basis of the Autoimmune Polyendocrinopathy Syndrome Type-1. <i>Endocrinology and Metabolism Clinics of North America</i> , 2009, 38, 273-288.	1.2	35
56	Promoter IV of the class II transactivator gene is essential for positive selection of CD4+ T cells. <i>Blood</i> , 2003, 101, 3550-3559.	0.6	34
57	Requirement of Stat3 Signaling in the Postnatal Development of Thymic Medullary Epithelial Cells. <i>PLoS Genetics</i> , 2016, 12, e1005776.	1.5	33
58	Sonic Hedgehog regulates thymic epithelial cell differentiation. <i>Journal of Autoimmunity</i> , 2016, 68, 86-97.	3.0	32
59	Natural killer cell development is blocked in the context of aberrant T lymphocyte ontogeny. <i>International Immunology</i> , 1996, 8, 939-951.	1.8	31
60	Gene Modification and Three-Dimensional Scaffolds as Novel Tools to Allow the Use of Postnatal Thymic Epithelial Cells for Thymus Regeneration Approaches. <i>Stem Cells Translational Medicine</i> , 2019, 8, 1107-1122.	1.6	31
61	TRAF3 enforces the requirement for T cell cross-talk in thymic medullary epithelial development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 21107-21112.	3.3	30
62	The thymus in GVHD pathophysiology. <i>Best Practice and Research in Clinical Haematology</i> , 2008, 21, 119-128.	0.7	29
63	Development and function of T lymphocytes and natural killer cells after bone marrow transplantation of severely immunodeficient mice. <i>Immunological Reviews</i> , 1997, 157, 53-60.	2.8	28
64	Functional IL-18 Is Produced by Primary Pancreatic Mouse Islets and NIT-1 Beta Cells and Participates in the Progression towards Destructive Insulinitis. <i>Hormone Research in Paediatrics</i> , 2002, 57, 94-104.	0.8	28
65	Open Access Could Transform Drug Discovery: A Case Study of JQ1. <i>Expert Opinion on Drug Discovery</i> , 2016, 11, 321-332.	2.5	28
66	Deletion of PKB $\pm$ /Akt1 Affects Thymic Development. <i>PLoS ONE</i> , 2007, 2, e992.	1.1	26
67	On the Relevance of TCR Rearrangement Circles as Molecular Markers for Thymic Output during Experimental Graft-versus-Host Disease. <i>Journal of Immunology</i> , 2004, 172, 7359-7367.	0.4	25
68	The role of thymic tolerance in CNS autoimmune disease. <i>Nature Reviews Neurology</i> , 2018, 14, 723-734.	4.9	25
69	DISRUPTION OF T CELL DEVELOPMENT AND REPERTOIRE SELECTION BY CALCINEURIN INHIBITION IN VIVO. <i>Transplantation</i> , 1994, 58, 1037-1043.	0.5	23
70	Overexpression of Lymphotoxin in T Cells Induces Fulminant Thymic Involution. <i>American Journal of Pathology</i> , 2008, 172, 1555-1570.	1.9	22
71	Molecular and biological actions of cyclosporin A and FK506 on T cell development and function. <i>Transfusion Science</i> , 1994, 15, 207-220.	0.6	20
72	Selection of peripheral and intestinal T lymphocytes lacking CD3 $\zeta$ . <i>International Immunology</i> , 1995, 7, 287-293.	1.8	18

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73	Leydig cell injury as a consequence of an acute graft-versus-host reaction. <i>Blood</i> , 2005, 105, 2988-2990.	0.6	18
74	Flt3 ligandâ€“receptor interaction is important for maintenance of early thymic progenitor numbers in steadyâ€“state thymopoiesis. <i>European Journal of Immunology</i> , 2010, 40, 81-90.	1.6	18
75	Learning to be tolerant: how T cells keep out of trouble. <i>Journal of Internal Medicine</i> , 2009, 265, 541-561.	2.7	17
76	Thymic cysts originate from Foxn1 positive thymic medullary epithelium. <i>Molecular Immunology</i> , 2010, 47, 1106-1113.	1.0	17
77	TGF-Î² type II receptor expression in thymic epithelial cells inhibits the development of Hassallâ€™s corpuscles in mice. <i>International Immunology</i> , 2013, 25, 633-642.	1.8	17
78	Comprehensively Profiling the Chromatin Architecture of Tissue Restricted Antigen Expression in Thymic Epithelial Cells Over Development. <i>Frontiers in Immunology</i> , 2018, 9, 2120.	2.2	17
79	Claudins provide a breath of fresh Aire. <i>Nature Immunology</i> , 2007, 8, 234-236.	7.0	16
80	The crystal structure of human forkhead box N1 in complex with DNA reveals the structural basis for forkhead box family specificity. <i>Journal of Biological Chemistry</i> , 2020, 295, 2948-2958.	1.6	16
81	Thymus Extracellular Matrixâ€“Derived Scaffolds Support Graftâ€“Resident Thymopoiesis and Longâ€“Term In Vitro Culture of Adult Thymic Epithelial Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2010747.	7.8	16
82	CONTRIBUTION OF CD40-CD154-MEDIATED COSTIMULATION TO AN ALLORESPONSE IN VIVO1. <i>Transplantation</i> , 1999, 67, 1284-1287.	0.5	16
83	Retinoic Acid Signaling in Thymic Epithelial Cells Regulates Thymopoiesis. <i>Journal of Immunology</i> , 2018, 201, 524-532.	0.4	15
84	A subpopulation of CD103 <sup>pos</sup> ICOS <sup>pos</sup> Treg cells occurs at high frequency in lymphopenic mice and represents a lymph node specific differentiation stage. <i>European Journal of Immunology</i> , 2015, 45, 1760-1771.	1.6	13
85	Expanding the Nude SCID/CID Phenotype Associated with FOXN1 Homozygous, Compound Heterozygous, or Heterozygous Mutations. <i>Journal of Clinical Immunology</i> , 2021, 41, 756-768.	2.0	13
86	Deficiency of the Metalloproteinase-Disintegrin ADAM8 Is Associated with Thymic Hyper-Cellularity. <i>PLoS ONE</i> , 2010, 5, e12766.	1.1	11
87	In situ functional dissection of RNA cis-regulatory elements by multiplex CRISPR-Cas9 genome engineering. <i>Nature Communications</i> , 2017, 8, 2109.	5.8	11
88	The role of the thymus in allogeneic hematopoietic stem cell transplantation. <i>Swiss Medical Weekly</i> , 2010, 140, w13051.	0.8	11
89	Spatial (Tbata) expression in mature medullary thymic epithelial cells. <i>European Journal of Immunology</i> , 2010, 40, 530-538.	1.6	10
90	FOXN1 forms higher-order nuclear condensates displaced by mutations causing immunodeficiency. <i>Science Advances</i> , 2021, 7, eabj9247.	4.7	10

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91	Regulatory barriers to the advancement of precision medicine. <i>Expert Review of Precision Medicine and Drug Development</i> , 2016, 1, 319-329.	0.4	7
92	Indispensable epigenetic control of thymic epithelial cell development and function by polycomb repressive complex 2. <i>Nature Communications</i> , 2021, 12, 3933.	5.8	7
93	The chaperonin CCT8 controls proteostasis essential for T cell maturation, selection, and function. <i>Communications Biology</i> , 2021, 4, 681.	2.0	6
94	Combined immunodeficiency with autoimmunity caused by a homozygous missense mutation in inhibitor of nuclear factor $\kappa$ B kinase alpha (IKK $\alpha$ ). <i>Science Immunology</i> , 2021, 6, eabf6723.	5.6	6
95	Developmental dynamics of the neural crestâ€“mesenchymal axis in creating the thymic microenvironment. <i>Science Advances</i> , 2022, 8, eabm9844.	4.7	6
96	21 <sup>st</sup> Century Cures Act: An Act of Cure or Diagnosis?. <i>Rejuvenation Research</i> , 2015, 18, 295-298.	0.9	5
97	P63 targeted deletion under the FOXP1 promoter disrupts pre-and post-natal thymus development, function and maintenance as well as induces severe hair loss. <i>PLoS ONE</i> , 2022, 17, e0261770.	1.1	5
98	Lymphoid reconstitution following hematopoietic stem cell transplantation. <i>Seminars in Immunopathology</i> , 2008, 30, 369-370.	2.8	4
99	Thymic stromal lymphopoietin is not necessary or sufficient to mediate the thymopoietic effects of keratinocyte growth factor. <i>Blood</i> , 2008, 111, 969-970.	0.6	4
100	Thymic Epithelial Cell Support of Thymopoiesis Does Not Require Klotho. <i>Journal of Immunology</i> , 2018, 201, 3320-3328.	0.4	4
101	Comment on â€œIdentification of an Intronic Regulatory Element Necessary for Tissue-Specific Expression of <i>Foxp1</i> in Thymic Epithelial Cellsâ€•. <i>Journal of Immunology</i> , 2019, 203, 2355-2355.	0.4	4
102	Cadherin 17 mutation associated with leaky severe combined immune deficiency is corrected by HSCT. <i>Blood Advances</i> , 2017, 1, 2083-2087.	2.5	3
103	Despite high levels of expression in thymic epithelial cells, miR-181a1 and miR-181b1 are not required for thymic development. <i>PLoS ONE</i> , 2018, 13, e0198871.	1.1	3
104	A short primer on early molecular and cellular events in thymus organogenesis and replacement. <i>Swiss Medical Weekly</i> , 2006, 136, 365-9.	0.8	3
105	Violation of the 12/23 rule of genomic V(D)J recombination is common in lymphocytes. <i>Genome Research</i> , 2015, 25, 226-234.	2.4	2
106	Keratinocyte Growth Factor Increases Thymic Output of Naïve T-Cells after Total Body Irradiation and Autologous Peripheral Blood Progenitor Cell Transplantation in Rhesus Macaques.. <i>Blood</i> , 2005, 106, 187-187.	0.6	2
107	RBFOX splicing factors contribute to a broad but selective recapitulation of peripheral tissue splicing patterns in the thymus. <i>Genome Research</i> , 2021, 31, 2022-2034.	2.4	2
108	Introduction: thymus development and function in health and disease. <i>Seminars in Immunopathology</i> , 2021, 43, 1-3.	2.8	0

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109	Induction of Endogenous Repair Mechanisms by Single-Stranded DNA Oligonucleotide Therapy for Correction of the DNA-PK Mutation in Murine Severe Combined Immune Deficiency.. Blood, 2006, 108, 454-454.	0.6	0
110	The Role of the Thymus in Hematopoietic Stem Cell Transplantation. , 2010, , 303-350.		0
111	Alloreactive Natural Killer Cells Initiate a Unique Cellular and Molecular Pathway That Greatly Accelerates Immune Reconstitution after Allogeneic Bone Marrow Transplantation. Blood, 2016, 128, 548-548.	0.6	0