

Ellen V Rothenberg

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145 papers	7,831 citations	52 h-index	85 g-index
179 ext. papers	9,002 ext. citations	13.3 avg, IF	6.5 L-index

#	Paper	IF	Citations
145	Launching the T-cell-lineage developmental programme. <i>Nature Reviews Immunology</i> , 2008 , 8, 9-21	36.5	323
144	An early T cell lineage commitment checkpoint dependent on the transcription factor Bcl11b. <i>Science</i> , 2010 , 329, 89-93	33.3	273
143	Dynamic transformations of genome-wide epigenetic marking and transcriptional control establish T cell identity. <i>Cell</i> , 2012 , 149, 467-82	56.2	255
142	Developmental and molecular characterization of emerging beta- and gammadelta-selected pre-T cells in the adult mouse thymus. <i>Immunity</i> , 2006 , 24, 53-64	32.3	235
141	Molecular genetics of T cell development. <i>Annual Review of Immunology</i> , 2005 , 23, 601-49	34.7	218
140	Developmental gene networks: a triathlon on the course to T cell identity. <i>Nature Reviews Immunology</i> , 2014 , 14, 529-45	36.5	204
139	GATA-3 expression is controlled by TCR signals and regulates CD4/CD8 differentiation. <i>Immunity</i> , 2003 , 19, 83-94	32.3	201
138	cAMP inhibits induction of interleukin 2 but not of interleukin 4 in T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 9353-7	11.5	198
137	Positive feedback between PU.1 and the cell cycle controls myeloid differentiation. <i>Science</i> , 2013 , 341, 670-3	33.3	182
136	High frequency of aberrant expression of Moloney murine leukemia virus in clonal infections. <i>Cell</i> , 1978 , 14, 601-9	56.2	176
135	A dynamic assembly of diverse transcription factors integrates activation and cell-type information for interleukin 2 gene regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 9358-65	11.5	165
134	Lck activity controls CD4/CD8 T cell lineage commitment. <i>Immunity</i> , 2000 , 12, 313-22	32.3	162
133	Mast cell lineage diversion of T lineage precursors by the essential T cell transcription factor GATA-3. <i>Nature Immunology</i> , 2007 , 8, 845-55	19.1	154
132	The development of functionally responsive T cells. <i>Advances in Immunology</i> , 1992 , 51, 85-214	5.6	142
131	Ordered transcription of RNA tumor virus genomes. <i>Journal of Molecular Biology</i> , 1976 , 106, 109-31	6.5	142
130	Constitutive expression of PU.1 in fetal hematopoietic progenitors blocks T cell development at the pro-T cell stage. <i>Immunity</i> , 2002 , 16, 285-96	32.3	138
129	Transcriptional control of early T and B cell developmental choices. <i>Annual Review of Immunology</i> , 2014 , 32, 283-321	34.7	134

128	Delayed, asynchronous, and reversible T-lineage specification induced by Notch/Delta signaling. <i>Genes and Development</i> , 2005 , 19, 965-78	12.6	130
127	Analysis of a 5Tleader sequence on murine leukemia virus 21S RNA: heteroduplex mapping with long reverse transcriptase products. <i>Cell</i> , 1978 , 13, 435-51	56.2	130
126	Fine-scale staging of T cell lineage commitment in adult mouse thymus. <i>Journal of Immunology</i> , 2010 , 185, 284-93	5.3	103
125	Synthesis of long, representative DNA copies of the murine RNA tumor virus genome. <i>Journal of Virology</i> , 1975 , 17, 168-74	6.6	102
124	Notch/Delta signaling constrains reengineering of pro-T cells by PU.1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11993-8	11.5	93
123	A far downstream enhancer for murine Bcl11b controls its T-cell specific expression. <i>Blood</i> , 2013 , 122, 902-11	2.2	89
122	Transformation of Accessible Chromatin and 3D Nucleome Underlies Lineage Commitment of Early T Cells. <i>Immunity</i> , 2018 , 48, 227-242.e8	32.3	88
121	Asynchronous combinatorial action of four regulatory factors activates Bcl11b for T cell commitment. <i>Nature Immunology</i> , 2016 , 17, 956-65	19.1	85
120	Regulatory anatomy of the murine interleukin-2 gene. <i>Nucleic Acids Research</i> , 1990 , 18, 4523-33	20.1	84
119	Differentiation and cell division in the mammalian thymus. <i>Developmental Biology</i> , 1985 , 112, 1-17	3.1	84
118	TET proteins regulate the lineage specification and TCR-mediated expansion of iNKT cells. <i>Nature Immunology</i> , 2017 , 18, 45-53	19.1	80
117	Molecular dissection of prethymic progenitor entry into the T lymphocyte developmental pathway. <i>Journal of Immunology</i> , 2007 , 179, 421-38	5.3	79
116	Expression and function of a stem cell promoter for the murine CBFalpha2 gene: distinct roles and regulation in natural killer and T cell development. <i>Developmental Biology</i> , 2001 , 229, 363-82	3.1	78
115	Chromatin remodeling of the interleukin-2 gene: distinct alterations in the proximal versus distal enhancer regions. <i>Nucleic Acids Research</i> , 1998 , 26, 2923-34	20.1	78
114	In vitro synthesis of infectious DNA of murine leukaemia virus. <i>Nature</i> , 1977 , 269, 122-6	50.4	77
113	Negotiation of the T lineage fate decision by transcription-factor interplay and microenvironmental signals. <i>Immunity</i> , 2007 , 26, 690-702	32.3	76
112	A gene regulatory network armature for T lymphocyte specification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20100-5	11.5	75
111	Complex expression patterns of lymphocyte-specific genes during the development of cartilaginous fish implicate unique lymphoid tissues in generating an immune repertoire. <i>International Immunology</i> , 2001 , 13, 567-80	4.9	75

110	Localization of the domains in Runx transcription factors required for the repression of CD4 in thymocytes. <i>Journal of Immunology</i> , 2004 , 172, 4359-70	5.3	71
109	Stepwise specification of lymphocyte developmental lineages. <i>Current Opinion in Genetics and Development</i> , 2000 , 10, 370-9	4.9	67
108	Definition of regulatory network elements for T cell development by perturbation analysis with PU.1 and GATA-3. <i>Developmental Biology</i> , 2002 , 246, 103-21	3.1	66
107	Genetic polymorphism of murine beta 2-microglobulin detected biochemically. <i>Immunogenetics</i> , 1980 , 11, 93-5	3.2	63
106	Architecture of a lymphomyeloid developmental switch controlled by PU.1, Notch and Gata3. <i>Development (Cambridge)</i> , 2013 , 140, 1207-19	6.6	62
105	A new regulatory region of the IL-2 locus that confers position-independent transgene expression. <i>Journal of Immunology</i> , 2001 , 166, 1730-9	5.3	62
104	Multilayered specification of the T-cell lineage fate. <i>Immunological Reviews</i> , 2010 , 238, 150-68	11.3	60
103	The chromatin landscape and transcription factors in T cell programming. <i>Trends in Immunology</i> , 2014 , 35, 195-204	14.4	57
102	Transcriptional drivers of the T-cell lineage program. <i>Current Opinion in Immunology</i> , 2012 , 24, 132-8	7.8	57
101	T cell lineage commitment: identity and renunciation. <i>Journal of Immunology</i> , 2011 , 186, 6649-55	5.3	57
100	Transcription factor expression dynamics of early T-lymphocyte specification and commitment. <i>Developmental Biology</i> , 2009 , 325, 444-67	3.1	57
99	Core binding factors are necessary for natural killer cell development and cooperate with Notch signaling during T-cell specification. <i>Blood</i> , 2008 , 112, 480-92	2.2	56
98	A developmental transition in definitive erythropoiesis: erythropoietin expression is sequentially regulated by retinoic acid receptors and HNF4. <i>Genes and Development</i> , 2001 , 15, 889-901	12.6	55
97	The basic helix-loop-helix transcription factor HEBAIt is expressed in pro-T cells and enhances the generation of T cell precursors. <i>Journal of Immunology</i> , 2006 , 177, 109-19	5.3	54
96	Differential transcriptional regulation of individual TCR V beta segments before gene rearrangement. <i>Journal of Immunology</i> , 2001 , 166, 1771-80	5.3	53
95	Bcl11b and combinatorial resolution of cell fate in the T-cell gene regulatory network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5800-5807	11.5	52
94	Progression of regulatory gene expression states in fetal and adult pro-T-cell development. <i>Immunological Reviews</i> , 2006 , 209, 212-36	11.3	52
93	Regulatory coding of lymphoid lineage choice by hematopoietic transcription factors. <i>Current Opinion in Immunology</i> , 2003 , 15, 166-75	7.8	52

92	GATA-3 dose-dependent checkpoints in early T cell commitment. <i>Journal of Immunology</i> , 2014 , 193, 3470-3481	5.91	51
91	Transcription Factor PU.1 Represses and Activates Gene Expression in Early T Cells by Redirecting Partner Transcription Factor Binding. <i>Immunity</i> , 2018 , 48, 1119-1134.e7	32.3	47
90	Heteroduplex analysis of the nonhomology region between Moloney MuLV and the dual host range derivative HIX virus. <i>Cell</i> , 1978 , 14, 959-70	56.2	47
89	Regulation of early T-lineage gene expression and developmental progression by the progenitor cell transcription factor PU.1. <i>Genes and Development</i> , 2015 , 29, 832-48	12.6	45
88	Molecular mechanisms that control mouse and human TCR-alphabeta and TCR-gammadelta T cell development. <i>Seminars in Immunopathology</i> , 2008 , 30, 383-98	12	45
87	Lineage plasticity and commitment in T-cell development. <i>Immunological Reviews</i> , 2002 , 187, 96-115	11.3	45
86	Bcl11b sets pro-T cell fate by site-specific cofactor recruitment and by repressing Id2 and Zbtb16. <i>Nature Immunology</i> , 2018 , 19, 1427-1440	19.1	45
85	Cell-type-specific activation and repression of PU.1 by a complex of discrete, functionally specialized cis-regulatory elements. <i>Molecular and Cellular Biology</i> , 2010 , 30, 4922-39	4.8	43
84	Preferential activation of an IL-2 regulatory sequence transgene in TCR gamma delta and NKT cells: subset-specific differences in IL-2 regulation. <i>Journal of Immunology</i> , 2004 , 172, 4691-9	5.3	43
83	A stochastic epigenetic switch controls the dynamics of T-cell lineage commitment. <i>ELife</i> , 2018 , 7,	8.9	42
82	Cytokines, Transcription Factors, and the Initiation of T-Cell Development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018 , 10,	10.2	41
81	Cell lineage regulators in B and T cell development. <i>Nature Immunology</i> , 2007 , 8, 441-4	19.1	41
80	Proliferation of thymic stem cells with and without receptors for interleukin 2. Implications for intrathymic antigen recognition. <i>Journal of Experimental Medicine</i> , 1985 , 161, 1048-62	16.6	41
79	Forging T-Lymphocyte Identity: Intersecting Networks of Transcriptional Control. <i>Advances in Immunology</i> , 2016 , 129, 109-74	5.6	41
78	How transcription factors drive choice of the T cell fate. <i>Nature Reviews Immunology</i> , 2021 , 21, 162-176	36.5	41
77	Subversion of T lineage commitment by PU.1 in a clonal cell line system. <i>Developmental Biology</i> , 2005 , 280, 448-66	3.1	40
76	Evolutionary origins of lymphocytes: ensembles of T cell and B cell transcriptional regulators in a cartilaginous fish. <i>Journal of Immunology</i> , 2004 , 172, 5851-60	5.3	40
75	Death and transfiguration of cortical thymocytes: a reconsideration. <i>Trends in Immunology</i> , 1990 , 11, 116-9		39

74	Cell-type-specific epigenetic marking of the IL2 gene at a distal cis-regulatory region in competent, nontranscribing T-cells. <i>Nucleic Acids Research</i> , 2005 , 33, 3200-10	20.1	37
73	Single-Cell Analysis Reveals Regulatory Gene Expression Dynamics Leading to Lineage Commitment in Early T Cell Development. <i>Cell Systems</i> , 2019 , 9, 321-337.e9	10.6	36
72	How T cells count. <i>Science</i> , 1996 , 273, 78-9	33.3	36
71	Programming for T-lymphocyte fates: modularity and mechanisms. <i>Genes and Development</i> , 2019 , 33, 1117-1135	12.6	35
70	A two-amino-acid substitution in the transcription factor ROR γ disrupts its function in T17 differentiation but not in thymocyte development. <i>Nature Immunology</i> , 2017 , 18, 1128-1138	19.1	35
69	Elements of transcription factor network design for T-lineage specification. <i>Developmental Biology</i> , 2002 , 246, 29-44	3.1	35
68	Transcriptional regulation of lymphocyte lineage commitment. <i>BioEssays</i> , 1999 , 21, 726-42	4.1	35
67	GATA3 induces human T-cell commitment by restraining Notch activity and repressing NK-cell fate. <i>Nature Communications</i> , 2016 , 7, 11171	17.4	35
66	Origins of lymphocyte developmental programs: transcription factor evidence. <i>Seminars in Immunology</i> , 2004 , 16, 227-38	10.7	33
65	Regulatory gene network circuits underlying T cell development from multipotent progenitors. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012 , 4, 79-102	6.6	32
64	Competition and collaboration: GATA-3, PU.1, and Notch signaling in early T-cell fate determination. <i>Seminars in Immunology</i> , 2008 , 20, 236-46	10.7	32
63	Cross-lineage expression of Ig-beta (B29) in thymocytes: positive and negative gene regulation to establish T cell identity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 6831-6	11.5	32
62	Expression of differentiation antigens in subpopulations of mouse thymocytes: regulation at the level of de novo synthesis. <i>Cell</i> , 1980 , 20, 1-9	56.2	32
61	Mechanisms of Action of Hematopoietic Transcription Factor PU.1 in Initiation of T-Cell Development. <i>Frontiers in Immunology</i> , 2019 , 10, 228	8.4	28
60	Deranged early T cell development in immunodeficient strains of nonobese diabetic mice. <i>Journal of Immunology</i> , 2004 , 173, 5381-91	5.3	28
59	T-lineage specification and commitment: a gene regulation perspective. <i>Seminars in Immunology</i> , 2002 , 14, 431-40	10.7	28
58	Spontaneous expression of interleukin-2 in vivo in specific tissues of young mice. <i>Autoimmunity</i> , 1998 , 5, 223-45		27
57	Cell type-specific actions of Bcl11b in early T-lineage and group 2 innate lymphoid cells. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	27

56	Evolution of hematopoiesis: Three members of the PU.1 transcription factor family in a cartilaginous fish, <i>Raja eglanteria</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 553-8	11.5	26
55	Computational modelling of T-cell formation kinetics: output regulated by initial proliferation-linked deferral of developmental competence. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20120774	4.1	25
54	Molecular indices of functional competence in developing T cells. <i>Immunological Reviews</i> , 1988 , 104, 29-53	11.3	25
53	Pioneering, chromatin remodeling, and epigenetic constraint in early T-cell gene regulation by SPI1 (PU.1). <i>Genome Research</i> , 2018 , 28, 1508-1519	9.7	24
52	Ikaro represses and activates PU.1 cell-type-specifically through the multifunctional Sfpi1 URE and a myeloid specific enhancer. <i>Oncogene</i> , 2012 , 31, 4647-54	9.2	23
51	Precocious expression of T cell functional response genes in vivo in primitive thymocytes before T lineage commitment. <i>International Immunology</i> , 1998 , 10, 1623-35	4.9	23
50	Hematopoiesis and T-cell specification as a model developmental system. <i>Immunological Reviews</i> , 2016 , 271, 72-97	11.3	23
49	Multiclass Weighted Loss for Instance Segmentation of Cluttered Cells 2018 ,		21
48	Specific regulation of fos family transcription factors in thymocytes at two developmental checkpoints. <i>International Immunology</i> , 1999 , 11, 677-88	4.9	18
47	Differential transient and long-term expression of DNA sequences introduced into T-lymphocyte lines. <i>DNA and Cell Biology</i> , 1986 , 5, 439-51		17
46	Structure and expression of glycoproteins controlled by the Qa-1a allele. <i>Immunogenetics</i> , 1981 , 14, 455-68		17
45	Transcription factor expression in lymphocyte development: clues to the evolutionary origins of lymphoid cell lineages?. <i>Current Topics in Microbiology and Immunology</i> , 2000 , 248, 137-55	3.3	15
44	T-cell identity and epigenetic memory. <i>Current Topics in Microbiology and Immunology</i> , 2012 , 356, 117-43	3.3	13
43	Regulatory factors for initial T lymphocyte lineage specification. <i>Current Opinion in Hematology</i> , 2007 , 14, 322-9	3.3	13
42	Transcriptional establishment of cell-type identity: dynamics and causal mechanisms of T-cell lineage commitment. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2013 , 78, 31-41	3.9	12
41	Developmental and anatomical patterns of IL-2 gene expression in vivo in the murine thymus. <i>Autoimmunity</i> , 1993 , 3, 85-102		12
40	Costimulation by interleukin-1 of multiple activation responses in a developmentally restricted subset of immature thymocytes. <i>European Journal of Immunology</i> , 1994 , 24, 24-33	6.1	12
39	Causal Gene Regulatory Network Modeling and Genomics: Second-Generation Challenges. <i>Journal of Computational Biology</i> , 2019 , 26, 703-718	1.7	11

38	Mapping of complex regulatory elements by pufferfish/zebrafish transgenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 6540-2	11.5	10
37	Signaling mechanisms in thymocyte selection. <i>Current Opinion in Immunology</i> , 1994 , 6, 257-65	7.8	10
36	Epigenetic mechanisms and developmental choice hierarchies in T-lymphocyte development. <i>Briefings in Functional Genomics</i> , 2013 , 12, 512-24	4.9	9
35	Runx1 and Runx3 drive progenitor to T-lineage transcriptome conversion in mouse T cell commitment via dynamic genomic site switching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
34	Lineage determination in the immune system. <i>Immunological Reviews</i> , 2010 , 238, 5-11	11.3	8
33	Lineage divergence at the first TCR-dependent checkpoint: preferential α and impaired β cell development in nonobese diabetic mice. <i>Journal of Immunology</i> , 2011 , 186, 826-37	5.3	8
32	Radiation leukemia virus and X-irradiation induce in C57BL/6 mice two distinct T-cell neoplasms: a growth factor-dependent lymphoma and a growth factor-independent lymphoma. <i>Leukemia Research</i> , 1987 , 11, 223-39	2.7	8
31	Dynamic control of the T-cell specification gene regulatory network. <i>Current Opinion in Systems Biology</i> , 2019 , 18, 62-76	3.2	7
30	GATA-3 locks the door to the B-cell option. <i>Blood</i> , 2013 , 121, 1673-4	2.2	6
29	Decision by committee: new light on the CD4/CD8-lineage choice. <i>Immunology and Cell Biology</i> , 2009 , 87, 109-12	5	6
28	Acquisition of mature functional responsiveness in T cells: programming for function via signaling. <i>Advances in Experimental Medicine and Biology</i> , 1991 , 292, 71-83	3.6	6
27	Multiple Curricula for B Cell Developmental Programming. <i>Immunity</i> , 2016 , 45, 457-458	32.3	5
26	Notch2 complements Notch1 to mediate inductive signaling that initiates early T cell development. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	5
25	Irreversibility of T-Cell Specification: Insights from Computational Modelling of a Minimal Network Architecture. <i>PLoS ONE</i> , 2016 , 11, e0161260	3.7	5
24	Gene Regulation in T-Cell Lineage Commitment 1998 , 337-365		5
23	The long road to functional maturity for developing T cells. <i>Trends in Immunology</i> , 1989 , 10, 116-7		4
22	Epigenetic Dynamics in the Function of T-Lineage Regulatory Factor Bcl11b. <i>Frontiers in Immunology</i> , 2021 , 12, 669498	8.4	4
21	Loss of T cell progenitor checkpoint control underlies leukemia initiation in Rag1-deficient nonobese diabetic mice. <i>Journal of Immunology</i> , 2013 , 190, 3276-88	5.3	3

20	Single-cell insights into the hematopoietic generation of T-lymphocyte precursors in mouse and human. <i>Experimental Hematology</i> , 2021 , 95, 1-12	3.1	3
19	Multi-scale Dynamical Modeling of T Cell Development from an Early Thymic Progenitor State to Lineage Commitment. <i>Cell Reports</i> , 2021 , 34, 108622	10.6	3
18	Fitting structure to function in gene regulatory networks. <i>History and Philosophy of the Life Sciences</i> , 2017 , 39, 37	1	2
17	IMMUNOLOGY: Enhanced: Thymic Regulation-Hidden in Plain Sight. <i>Science</i> , 2005 , 307, 858-859	33.3	2
16	Cell separation and analysis: A strategic overview. <i>Methods</i> , 1991 , 2, 168-172	4.6	2
15	Differential regulation of T cell receptor gamma genes in immature thymocyte populations. <i>European Journal of Immunology</i> , 1987 , 17, 1265-9	6.1	2
14	In vitro maintenance of differentiation marker synthesis by subpopulations of mouse thymocytes. <i>Journal of Supramolecular Structure</i> , 1980 , 14, 371-82		2
13	Building a Human Thymus: A Pointillist View. <i>Immunity</i> , 2019 , 51, 788-790	32.3	2
12	Encounters across networks: Windows into principles of genomic regulation. <i>Marine Genomics</i> , 2019 , 44, 3-12	1.9	1
11	Immune Cell Identity: Perspective from a Palimpsest. <i>Perspectives in Biology and Medicine</i> , 2015 , 58, 205-28	2.8	1
10	Developmental shifts in signaling pathways for lymphokine production and growth response. <i>Research in Immunology</i> , 1990 , 141, 289-293		1
9	How haematopoiesis research became a fertile ground for regulatory network biology as pioneered by Eric Davidson. <i>Current Opinion in Hematology</i> , 2021 , 28, 1-10	3.3	1
8	Illuminating the core of adaptive immunity-how the regulatory genome controls chromatin dynamics. <i>Science Immunology</i> , 2020 , 5,	28	1
7	Logic and lineage impacts on functional transcription factor deployment for T-cell fate commitment. <i>Biophysical Journal</i> , 2021 , 120, 4162-4181	2.9	0
6	Developmental biologist Eric H. Davidson, 1937-2015. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13423-5	11.5	
5	What is the role of T-lymphocyte surveillance in neoplastic disease?. <i>American Journal of Surgery</i> , 1982 , 143, 664-9	2.7	
4	Reduction of Core Binding Factor beta (CBF) Dosage Blocks T Cell Development.. <i>Blood</i> , 2005 , 106, 2714-2714	2.2	
3	Molecular Analysis of T-lineage Commitment: a possible role for Bcl11b. <i>FASEB Journal</i> , 2008 , 22, 844.6	0.9	

2 Transcriptional Regulation of T Cell Lineage Commitment **2016**, 201-210

1 Immunology. Thymic regulation--hidden in plain sight. *Science*, **2005**, 307, 858-9

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