Ellen V Rothenberg

List of Publications by Year in Descending Order

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	How haematopoiesis research became a fertile ground for regulatory network biology as pioneered by Eric Davidson. *Current Opinion in Hematology*, **2021**, 28, 1-10	3.3	1
144	Single-cell insights into the hematopoietic generation of T-lymphocyte precursors in mouse and human. *Experimental Hematology*, **2021**, 95, 1-12	3.1	3
143	Logic and lineage impacts on functional transcription factor deployment for T-cell fate commitment. *Biophysical Journal*, **2021**, 120, 4162-4181	2.9	0
142	Epigenetic Dynamics in the Function of T-Lineage Regulatory Factor Bcl11b. *Frontiers in Immunology*, **2021**, 12, 669498	8.4	4
141	How transcription factors drive choice of the T cell fate. *Nature Reviews Immunology*, **2021**, 21, 162-176	36.5	41
140	Runx1 and Runx3 drive progenitor to T-lineage transcriptome conversion in mouse T cell commitment via dynamic genomic site switching. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	9
139	Multi-scale Dynamical Modeling of T Cell Development from an Early Thymic Progenitor State to Lineage Commitment. *Cell Reports*, **2021**, 34, 108622	10.6	3
138	Notch2 complements Notch1 to mediate inductive signaling that initiates early T cell development. *Journal of Cell Biology*, **2020**, 219,	7.3	5
137	Cell type-specific actions of Bcl11b in early T-lineage and group 2 innate lymphoid cells. *Journal of Experimental Medicine*, **2020**, 217,	16.6	27
136	Illuminating the core of adaptive immunity-how the regulatory genome controls chromatin dynamics. *Science Immunology*, **2020**, 5,	28	1
135	Programming for T-lymphocyte fates: modularity and mechanisms. *Genes and Development*, **2019**, 33, 1117-1135	12.6	35
134	Encounters across networks: Windows into principles of genomic regulation. *Marine Genomics*, **2019**, 44, 3-12	1.9	1
133	Causal Gene Regulatory Network Modeling and Genomics: Second-Generation Challenges. *Journal of Computational Biology*, **2019**, 26, 703-718	1.7	11
132	Mechanisms of Action of Hematopoietic Transcription Factor PU.1 in Initiation of T-Cell Development. *Frontiers in Immunology*, **2019**, 10, 228	8.4	28
131	Single-Cell Analysis Reveals Regulatory Gene Expression Dynamics Leading to Lineage Commitment in Early T Cell Development. *Cell Systems*, **2019**, 9, 321-337.e9	10.6	36
130	Dynamic control of the T-cell specification gene regulatory network. *Current Opinion in Systems Biology*, **2019**, 18, 62-76	3.2	7
129	Building a Human Thymus: A Pointillist View. *Immunity*, **2019**, 51, 788-790	32.3	2

128	Transformation of Accessible Chromatin and 3D Nucleome Underlies Lineage Commitment of Early T Cells. *Immunity*, **2018**, 48, 227-242.e8	32.3	88
127	Cytokines, Transcription Factors, and the Initiation of T-Cell Development. *Cold Spring Harbor Perspectives in Biology*, **2018**, 10,	10.2	41
126	Transcription Factor PU.1 Represses and Activates Gene Expression in Early T Cells by Redirecting Partner Transcription Factor Binding. *Immunity*, **2018**, 48, 1119-1134.e7	32.3	47
125	A stochastic epigenetic switch controls the dynamics of T-cell lineage commitment. *ELife*, **2018**, 7,	8.9	42
124	Multiclass Weighted Loss for Instance Segmentation of Cluttered Cells **2018**,		21
123	Bcl11b sets pro-T cell fate by site-specific cofactor recruitment and by repressing Id2 and Zbtb16. *Nature Immunology*, **2018**, 19, 1427-1440	19.1	45
122	Pioneering, chromatin remodeling, and epigenetic constraint in early T-cell gene regulation by SPI1 (PU.1). *Genome Research*, **2018**, 28, 1508-1519	9.7	24
121	Bcl11b and combinatorial resolution of cell fate in the T-cell gene regulatory network. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 5800-5807	11.5	52
120	Fitting structure to function in gene regulatory networks. *History and Philosophy of the Life Sciences* , **2017**, 39, 37	1	2
119	A two-amino-acid substitution in the transcription factor RORγt disrupts its function in T17 differentiation but not in thymocyte development. *Nature Immunology*, **2017**, 18, 1128-1138	19.1	35
118	TET proteins regulate the lineage specification and TCR-mediated expansion of iNKT cells. *Nature Immunology*, **2017**, 18, 45-53	19.1	80
117	Multiple Curricula for B Cell Developmental Programming. *Immunity*, **2016**, 45, 457-458	32.3	5
116	Transcriptional Regulation of T Cell Lineage Commitment **2016**, 201-210		
115	Irreversibility of T-Cell Specification: Insights from Computational Modelling of a Minimal Network Architecture. *PLoS ONE*, **2016**, 11, e0161260	3.7	5
114	Asynchronous combinatorial action of four regulatory factors activates Bcl11b for T cell commitment. *Nature Immunology*, **2016**, 17, 956-65	19.1	85
113	Hematopoiesis and T-cell specification as a model developmental system. *Immunological Reviews*, **2016**, 271, 72-97	11.3	23
112	GATA3 induces human T-cell commitment by restraining Notch activity and repressing NK-cell fate. *Nature Communications*, **2016**, 7, 11171	17.4	35
111	Forging T-Lymphocyte Identity: Intersecting Networks of Transcriptional Control. *Advances in Immunology*, **2016**, 129, 109-74	5.6	41

110	Regulation of early T-lineage gene expression and developmental progression by the progenitor cell transcription factor PU.1. *Genes and Development*, **2015**, 29, 832-48	12.6	45
109	Developmental biologist Eric H. Davidson, 1937-2015. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 13423-5	11.5	
108	Immune Cell Identity: Perspective from a Palimpsest. *Perspectives in Biology and Medicine*, **2015**, 58, 205-28	2.9	1
107	Transcriptional control of early T and B cell developmental choices. *Annual Review of Immunology*, **2014**, 32, 283-321	34.7	134
106	GATA-3 dose-dependent checkpoints in early T cell commitment. *Journal of Immunology*, **2014**, 193, 3470-81	5.3	51
105	Developmental gene networks: a triathlon on the course to T cell identity. *Nature Reviews Immunology*, **2014**, 14, 529-45	36.5	204
104	The chromatin landscape and transcription factors in T cell programming. *Trends in Immunology*, **2014**, 35, 195-204	14.4	57
103	Positive feedback between PU.1 and the cell cycle controls myeloid differentiation. *Science*, **2013**, 341, 670-3	33.3	182
102	Epigenetic mechanisms and developmental choice hierarchies in T-lymphocyte development. *Briefings in Functional Genomics*, **2013**, 12, 512-24	4.9	9
101	Loss of T cell progenitor checkpoint control underlies leukemia initiation in Rag1-deficient nonobese diabetic mice. *Journal of Immunology*, **2013**, 190, 3276-88	5.3	3
100	Architecture of a lymphomyeloid developmental switch controlled by PU.1, Notch and Gata3. *Development (Cambridge)*, **2013**, 140, 1207-19	6.6	62
99	Transcriptional establishment of cell-type identity: dynamics and causal mechanisms of T-cell lineage commitment. *Cold Spring Harbor Symposia on Quantitative Biology*, **2013**, 78, 31-41	3.9	12
98	Computational modelling of T-cell formation kinetics: output regulated by initial proliferation-linked deferral of developmental competence. *Journal of the Royal Society Interface*, **2013**, 10, 20120774	4.1	25
97	A far downstream enhancer for murine Bcl11b controls its T-cell specific expression. *Blood*, **2013**, 122, 902-11	2.2	89
96	GATA-3 locks the door to the B-cell option. *Blood*, **2013**, 121, 1673-4	2.2	6
95	Dynamic transformations of genome-wide epigenetic marking and transcriptional control establish T cell identity. *Cell*, **2012**, 149, 467-82	56.2	255
94	Transcriptional drivers of the T-cell lineage program. *Current Opinion in Immunology*, **2012**, 24, 132-8	7.8	57
93	Ikaros represses and activates PU.1 cell-type-specifically through the multifunctional Sfpi1 URE and a myeloid specific enhancer. *Oncogene*, **2012**, 31, 4647-54	9.2	23

92	Regulatory gene network circuits underlying T cell development from multipotent progenitors. *Wiley Interdisciplinary Reviews: Systems Biology and Medicine*, **2012**, 4, 79-102	6.6	32
91	T-cell identity and epigenetic memory. *Current Topics in Microbiology and Immunology*, **2012**, 356, 117-43	3.3	13
90	Lineage divergence at the first TCR-dependent checkpoint: preferential and impaired T cell development in nonobese diabetic mice. *Journal of Immunology*, **2011**, 186, 826-37	5.3	8
89	T cell lineage commitment: identity and renunciation. *Journal of Immunology*, **2011**, 186, 6649-55	5.3	57
88	Multilayered specification of the T-cell lineage fate. *Immunological Reviews*, **2010**, 238, 150-68	11.3	60
87	Lineage determination in the immune system. *Immunological Reviews*, **2010**, 238, 5-11	11.3	8
86	An early T cell lineage commitment checkpoint dependent on the transcription factor Bcl11b. *Science*, **2010**, 329, 89-93	33.3	273
85	Cell-type-specific activation and repression of PU.1 by a complex of discrete, functionally specialized cis-regulatory elements. *Molecular and Cellular Biology*, **2010**, 30, 4922-39	4.8	43
84	Fine-scale staging of T cell lineage commitment in adult mouse thymus. *Journal of Immunology*, **2010**, 185, 284-93	5.3	103
83	Decision by committee: new light on the CD4/CD8-lineage choice. *Immunology and Cell Biology*, **2009**, 87, 109-12	5	6
82	Transcription factor expression dynamics of early T-lymphocyte specification and commitment. *Developmental Biology*, **2009**, 325, 444-67	3.1	57
81	Launching the T-cell-lineage developmental programme. *Nature Reviews Immunology*, **2008**, 8, 9-21	36.5	323
80	Competition and collaboration: GATA-3, PU.1, and Notch signaling in early T-cell fate determination. *Seminars in Immunology*, **2008**, 20, 236-46	10.7	32
79	A gene regulatory network armature for T lymphocyte specification. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 20100-5	11.5	75
78	Core binding factors are necessary for natural killer cell development and cooperate with Notch signaling during T-cell specification. *Blood*, **2008**, 112, 480-92	2.2	56
77	Molecular mechanisms that control mouse and human TCR-alphabeta and TCR-gammadelta T cell development. *Seminars in Immunopathology*, **2008**, 30, 383-98	12	45
76	Molecular Analysis of T-lineage Commitment: a possible role for Bcl11b. *FASEB Journal*, **2008**, 22, 844.6	0.9	
75	Cell lineage regulators in B and T cell development. *Nature Immunology*, **2007**, 8, 441-4	19.1	41

74	Mast cell lineage diversion of T lineage precursors by the essential T cell transcription factor GATA-3. *Nature Immunology*, **2007**, 8, 845-55	19.1	154
73	Molecular dissection of prethymic progenitor entry into the T lymphocyte developmental pathway. *Journal of Immunology*, **2007**, 179, 421-38	5.3	79
72	Regulatory factors for initial T lymphocyte lineage specification. *Current Opinion in Hematology*, **2007**, 14, 322-9	3.3	13
71	Negotiation of the T lineage fate decision by transcription-factor interplay and microenvironmental signals. *Immunity*, **2007**, 26, 690-702	32.3	76
70	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, 11993-8	11.5	93
69	The basic helix-loop-helix transcription factor HEBAlt is expressed in pro-T cells and enhances the generation of T cell precursors. *Journal of Immunology*, **2006**, 177, 109-19	5.3	54
68	Developmental and molecular characterization of emerging beta- and gammadelta-selected pre-T cells in the adult mouse thymus. *Immunity*, **2006**, 24, 53-64	32.3	235
67	Progression of regulatory gene expression states in fetal and adult pro-T-cell development. *Immunological Reviews*, **2006**, 209, 212-36	11.3	52
66	Subversion of T lineage commitment by PU.1 in a clonal cell line system. *Developmental Biology*, **2005**, 280, 448-66	3.1	40
65	Molecular genetics of T cell development. *Annual Review of Immunology*, **2005**, 23, 601-49	34.7	218
64	IMMUNOLOGY: Enhanced: Thymic Regulation-Hidden in Plain Sight. *Science*, **2005**, 307, 858-859	33.3	2
63	Delayed, asynchronous, and reversible T-lineage specification induced by Notch/Delta signaling. *Genes and Development*, **2005**, 19, 965-78	12.6	130
62	Cell-type-specific epigenetic marking of the IL2 gene at a distal cis-regulatory region in competent, nontranscribing T-cells. *Nucleic Acids Research*, **2005**, 33, 3200-10	20.1	37
61	Reduction of Core Binding Factor beta (CBF) Dosage Blocks T Cell Development.. *Blood*, **2005**, 106, 2714-2714	2.2	
60	Immunology. Thymic regulation--hidden in plain sight. *Science*, **2005**, 307, 858-9	33.3	
59	Localization of the domains in Runx transcription factors required for the repression of CD4 in thymocytes. *Journal of Immunology*, **2004**, 172, 4359-70	5.3	71
58	Deranged early T cell development in immunodeficient strains of nonobese diabetic mice. *Journal of Immunology*, **2004**, 173, 5381-91	5.3	28
57	Evolutionary origins of lymphocytes: ensembles of T cell and B cell transcriptional regulators in a cartilaginous fish. *Journal of Immunology*, **2004**, 172, 5851-60	5.3	40

56	Preferential activation of an IL-2 regulatory sequence transgene in TCR gamma delta and NKT cells: subset-specific differences in IL-2 regulation. *Journal of Immunology*, **2004**, 172, 4691-9	5.3	43
55	Origins of lymphocyte developmental programs: transcription factor evidence. *Seminars in Immunology*, **2004**, 16, 227-38	10.7	33
54	Regulatory coding of lymphoid lineage choice by hematopoietic transcription factors. *Current Opinion in Immunology*, **2003**, 15, 166-75	7.8	52
53	GATA-3 expression is controlled by TCR signals and regulates CD4/CD8 differentiation. *Immunity*, **2003**, 19, 83-94	32.3	201
52	Lineage plasticity and commitment in T-cell development. *Immunological Reviews*, **2002**, 187, 96-115	11.3	45
51	Elements of transcription factor network design for T-lineage specification. *Developmental Biology*, **2002**, 246, 29-44	3.1	35
50	Definition of regulatory network elements for T cell development by perturbation analysis with PU.1 and GATA-3. *Developmental Biology*, **2002**, 246, 103-21	3.1	66
49	T-lineage specification and commitment: a gene regulation perspective. *Seminars in Immunology*, **2002**, 14, 431-40	10.7	28
48	Constitutive expression of PU.1 in fetal hematopoietic progenitors blocks T cell development at the pro-T cell stage. *Immunity*, **2002**, 16, 285-96	32.3	138
47	Mapping of complex regulatory elements by pufferfish/zebrafish transgenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 6540-2	11.5	10
46	A new regulatory region of the IL-2 locus that confers position-independent transgene expression. *Journal of Immunology*, **2001**, 166, 1730-9	5.3	62
45	A developmental transition in definitive erythropoiesis: erythropoietin expression is sequentially regulated by retinoic acid receptors and HNF4. *Genes and Development*, **2001**, 15, 889-901	12.6	55
44	Differential transcriptional regulation of individual TCR V beta segments before gene rearrangement. *Journal of Immunology*, **2001**, 166, 1771-80	5.3	53
43	Expression and function of a stem cell promoter for the murine CBFalpha2 gene: distinct roles and regulation in natural killer and T cell development. *Developmental Biology*, **2001**, 229, 363-82	3.1	78
42	Complex expression patterns of lymphocyte-specific genes during the development of cartilaginous fish implicate unique lymphoid tissues in generating an immune repertoire. *International Immunology*, **2001**, 13, 567-80	4.9	75
41	Evolution of hematopoiesis: Three members of the PU.1 transcription factor family in a cartilaginous fish, Raja eglanteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 553-8	11.5	26
40	Lck activity controls CD4/CD8 T cell lineage commitment. *Immunity*, **2000**, 12, 313-22	32.3	162
39	Stepwise specification of lymphocyte developmental lineages. *Current Opinion in Genetics and Development*, **2000**, 10, 370-9	4.9	67

38	Transcription factor expression in lymphocyte development: clues to the evolutionary origins of lymphoid cell lineages?. *Current Topics in Microbiology and Immunology*, **2000**, 248, 137-55	3.3	15
37	Specific regulation of fos family transcription factors in thymocytes at two developmental checkpoints. *International Immunology*, **1999**, 11, 677-88	4.9	18
36	Transcriptional regulation of lymphocyte lineage commitment. *BioEssays*, **1999**, 21, 726-42	4.1	35
35	Chromatin remodeling of the interleukin-2 gene: distinct alterations in the proximal versus distal enhancer regions. *Nucleic Acids Research*, **1998**, 26, 2923-34	20.1	78
34	Precocious expression of T cell functional response genes in vivo in primitive thymocytes before T lineage commitment. *International Immunology*, **1998**, 10, 1623-35	4.9	23
33	Spontaneous expression of interleukin-2 in vivo in specific tissues of young mice. *Autoimmunity*, **1998**, 5, 223-45		27
32	Cross-lineage expression of Ig-beta (B29) in thymocytes: positive and negative gene regulation to establish T cell identity. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 6831-6	11.5	32
31	Gene Regulation in T-Cell Lineage Commitment **1998**, 337-365		5
30	How T cells count. *Science*, **1996**, 273, 78-9	33.3	36
29	A dynamic assembly of diverse transcription factors integrates activation and cell-type information for interleukin 2 gene regulation. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 9358-65	11.5	165
28	Costimulation by interleukin-1 of multiple activation responses in a developmentally restricted subset of immature thymocytes. *European Journal of Immunology*, **1994**, 24, 24-33	6.1	12
27	Signaling mechanisms in thymocyte selection. *Current Opinion in Immunology*, **1994**, 6, 257-65	7.8	10
26	Developmental and anatomical patterns of IL-2 gene expression in vivo in the murine thymus. *Autoimmunity*, **1993**, 3, 85-102		12
25	The development of functionally responsive T cells. *Advances in Immunology*, **1992**, 51, 85-214	5.6	142
24	Cell separation and analysis: A strategic overview. *Methods*, **1991**, 2, 168-172	4.6	2
23	Acquisition of mature functional responsiveness in T cells: programming for function via signaling. *Advances in Experimental Medicine and Biology*, **1991**, 292, 71-83	3.6	6
22	Death and transfiguration of cortical thymocytes: a reconsideration. *Trends in Immunology*, **1990**, 11, 116-9		39
21	cAMP inhibits induction of interleukin 2 but not of interleukin 4 in T cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1990**, 87, 9353-7	11.5	198

20	Regulatory anatomy of the murine interleukin-2 gene. *Nucleic Acids Research*, **1990**, 18, 4523-33	20.1	84
19	Developmental shifts in signaling pathways for lymphokine production and growth response. *Research in Immunology*, **1990**, 141, 289-293		1
18	The long road to functional maturity for developing T cells. *Trends in Immunology*, **1989**, 10, 116-7		4
17	Molecular indices of functional competence in developing T cells. *Immunological Reviews*, **1988**, 104, 29-53	11.3	25
16	Differential regulation of T cell receptor gamma genes in immature thymocyte populations. *European Journal of Immunology*, **1987**, 17, 1265-9	6.1	2
15	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. *Leukemia Research*, **1987**, 11, 223-39	2.7	8
14	Differential transient and long-term expression of DNA sequences introduced into T-lymphocyte lines. *DNA and Cell Biology*, **1986**, 5, 439-51		17
13	Proliferation of thymic stem cells with and without receptors for interleukin 2. Implications for intrathymic antigen recognition. *Journal of Experimental Medicine*, **1985**, 161, 1048-62	16.6	41
12	Differentiation and cell division in the mammalian thymus. *Developmental Biology*, **1985**, 112, 1-17	3.1	84
11	What is the role of T-lymphocyte surveillance in neoplastic disease?. *American Journal of Surgery*, **1982**, 143, 664-9	2.7	
10	Structure and expression of glycoproteins controlled by the Qa-1a allele. *Immunogenetics*, **1981**, 14, 455-68	3.2	17
9	Genetic polymorphism of murine beta 2-microglobulin detected biochemically. *Immunogenetics*, **1980**, 11, 93-5	3.2	63
8	In vitro maintenance of differentiation marker synthesis by subpopulations of mouse thymocytes. *Journal of Supramolecular Structure*, **1980**, 14, 371-82		2
7	Expression of differentiation antigens in subpopulations of mouse thymocytes: regulation at the level of de novo synthesis. *Cell*, **1980**, 20, 1-9	56.2	32
6	Analysis of a 5Tleader sequence on murine leukemia virus 21S RNA: heteroduplex mapping with long reverse transcriptase products. *Cell*, **1978**, 13, 435-51	56.2	130
5	Heteroduplex analysis of the nonhomology region between Moloney MuLV and the dual host range derivative HIX virus. *Cell*, **1978**, 14, 959-70	56.2	47
4	High frequency of aberrant expression of Moloney murine leukemia virus in clonal infections. *Cell*, **1978**, 14, 601-9	56.2	176
3	In vitro synthesis of infectious DNA of murine leukaemia virus. *Nature*, **1977**, 269, 122-6	50.4	77

2	Ordered transcription of RNA tumor virus genomes. *Journal of Molecular Biology*, **1976**, 106, 109-31	6.5	142
1	Synthesis of long, representative DNA copies of the murine RNA tumor virus genome. *Journal of Virology*, **1975**, 17, 168-74	6.6	102