

Ramit Mehr

List of Publications by Year in descending order

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96
papers

3,191
citations

159585

30
h-index

175258

52
g-index

101
all docs

101
docs citations

101
times ranked

4451
citing authors

#	ARTICLE	IF	CITATIONS
1	Diversity, cellular origin and autoreactivity of antibody-secreting cell population expansions in acute systemic lupus erythematosus. <i>Nature Immunology</i> , 2015, 16, 755-765.	14.5	434
2	CD1d Endosomal Trafficking Is Independently Regulated by an Intrinsic CD1d-Encoded Tyrosine Motif and by the Invariant Chain. <i>Immunity</i> , 2001, 15, 897-908.	14.3	192
3	Diversification of memory B cells drives the continuous adaptation of secretory antibodies to gut microbiota. <i>Nature Immunology</i> , 2015, 16, 880-888.	14.5	192
4	Classification of human natural killer cells based on migration behavior and cytotoxic response. <i>Blood</i> , 2013, 121, 1326-1334.	1.4	146
5	Natural killer cell education in mice with single or multiple major histocompatibility complex class I molecules. <i>Journal of Experimental Medicine</i> , 2005, 201, 1145-1155.	8.5	133
6	IgTree: Creating Immunoglobulin variable region gene lineage trees. <i>Journal of Immunological Methods</i> , 2008, 338, 67-74.	1.4	113
7	Age- and tissue-specific differences in human germinal center B cell selection revealed by analysis of IgVH gene hypermutation and lineage trees. <i>European Journal of Immunology</i> , 2002, 32, 1947.	2.9	91
8	Re-utilization of germinal centers in multiple Peyer's patches results in highly synchronized, oligoclonal, and affinity-matured gut IgA responses. <i>Mucosal Immunology</i> , 2013, 6, 122-135.	6.0	84
9	Long-lived antigen-induced IgM plasma cells demonstrate somatic mutations and contribute to long-term protection. <i>Nature Communications</i> , 2016, 7, 11826.	12.8	84
10	Limited clonal relatedness between gut IgA plasma cells and memory B cells after oral immunization. <i>Nature Communications</i> , 2016, 7, 12698.	12.8	73
11	Ageing affects B cell antigen receptor repertoire diversity in primary and secondary lymphoid tissues. <i>European Journal of Immunology</i> , 2016, 46, 480-492.	2.9	59
12	Evidence for large diversity in the human transcriptome created by Alu RNA editing. <i>Nucleic Acids Research</i> , 2009, 37, 6905-6915.	14.5	58
13	Models for antigen receptor gene rearrangement: CDR3 length. <i>Immunology and Cell Biology</i> , 2007, 85, 323-332.	2.3	52
14	The Dynamics of Germinal Centre Selection as Measured by Graph-Theoretical Analysis of Mutational Lineage Trees. <i>Autoimmunity</i> , 2002, 9, 233-243.	0.6	47
15	Effects of age on antibody affinity maturation. <i>Biochemical Society Transactions</i> , 2003, 31, 447-448.	3.4	47
16	Somatic hypermutation and antigen-driven selection of B cells are altered in autoimmune diseases. <i>Journal of Autoimmunity</i> , 2010, 35, 325-335.	6.5	46
17	Modeling positive and negative selection and differentiation processes in the thymus. <i>Journal of Theoretical Biology</i> , 1995, 175, 103-126.	1.7	45
18	Ectopic GC in the thymus of myasthenia gravis patients show characteristics of normal GC. <i>European Journal of Immunology</i> , 2010, 40, 1150-1161.	2.9	43

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19	A Quantitative Theory of Affinity-driven T Cell Repertoire Selection. <i>Journal of Theoretical Biology</i> , 1999, 200, 389-403.	1.7	42
20	Ig gene diversification and selection in follicular lymphoma, diffuse large B cell lymphoma and primary central nervous system lymphoma revealed by lineage tree and mutation analyses. <i>International Immunology</i> , 2010, 22, 875-887.	4.0	38
21	B Cell Development in the Bone Marrow Is Regulated by Homeostatic Feedback Exerted by Mature B Cells. <i>Frontiers in Immunology</i> , 2016, 7, 77.	4.8	38
22	Regulatory feedback pathways in the thymus. <i>Trends in Immunology</i> , 1997, 18, 581-585.	7.5	37
23	Antigen-driven selection in germinal centers as reflected by the shape characteristics of immunoglobulin gene lineage trees: A large-scale simulation study. <i>Journal of Theoretical Biology</i> , 2008, 255, 210-222.	1.7	37
24	Role of the Thymus in Pediatric HIV-1 Infection. <i>Journal of Acquired Immune Deficiency Syndromes</i> , 1998, 18, 95-109.	0.3	36
25	B cell development in aging mice: lessons from mathematical modeling. <i>International Immunology</i> , 2006, 18, 31-39.	4.0	36
26	Natural Killer Cell Inhibitory Receptor Expression in Humans and Mice: A Closer Look. <i>Frontiers in Immunology</i> , 2013, 4, 65.	4.8	34
27	Feedback Regulation of T Cell Development in the Thymus. <i>Journal of Theoretical Biology</i> , 1996, 181, 157-167.	1.7	32
28	Analysis of Mutational Lineage Trees from Sites of Primary and Secondary Ig Gene Diversification in Rabbits and Chickens. <i>Journal of Immunology</i> , 2004, 172, 4790-4796.	0.8	32
29	Frequency and phenotype of B cell subpopulations in young and aged HIV-1 infected patients receiving ART. <i>Retrovirology</i> , 2014, 11, 76.	2.0	32
30	Screening of alternative models for transitional B cell maturation. <i>International Immunology</i> , 2004, 16, 1081-1090.	4.0	31
31	Feedback regulation of T cell development: manifestations in aging. <i>Mechanisms of Ageing and Development</i> , 1996, 91, 195-210.	4.6	30
32	Asynchronous differentiation models explain bone marrow labeling kinetics and predict reflux between the pre- and immature B cell pools. <i>International Immunology</i> , 2003, 15, 301-312.	4.0	30
33	Deriving Quantitative Constraints on T Cell Selection from Data on the Mature T Cell Repertoire. <i>Journal of Immunology</i> , 2000, 164, 121-128.	0.8	29
34	A mathematical model of the effect of aging on bone marrow cells colonizing the thymus. <i>Mechanisms of Ageing and Development</i> , 1993, 67, 159-172.	4.6	28
35	Models and methods for analysis of lymphocyte repertoire generation, development, selection and evolution. <i>Immunology Letters</i> , 2012, 148, 11-22.	2.5	28
36	High Throughput Sequencing Analysis of the Immunoglobulin Heavy Chain Gene from Flow-Sorted B Cell Sub-Populations Define the Dynamics of Follicular Lymphoma Clonal Evolution. <i>PLoS ONE</i> , 2015, 10, e0134833.	2.5	28

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37	Probing Natural Killer Cell Education by Ly49 Receptor Expression Analysis and Computational Modelling in Single MHC Class I Mice. <i>PLoS ONE</i> , 2009, 4, e6046.	2.5	26
38	Blind T-Cell Homeostasis and the CD4/CD8 Ratio in the Thymus and Peripheral Blood. <i>Journal of Acquired Immune Deficiency Syndromes</i> , 1997, 14, 387-398.	0.3	26
39	Natural Killer Cell Tolerance Persists Despite Significant Reduction of Self MHC Class I on Normal Target Cells in Mice. <i>PLoS ONE</i> , 2010, 5, e13174.	2.5	26
40	Developmental interactions of CD4 T cells and thymocytes: age-related differential effects. <i>Mechanisms of Ageing and Development</i> , 1994, 73, 169-178.	4.6	24
41	Immune system learning and memory quantified by graphical analysis of B-lymphocyte phylogenetic trees. <i>BioSystems</i> , 2004, 76, 141-155.	2.0	24
42	Immunoglobulin Gene Repertoire Diversification and Selection in the Stomach – From Gastritis to Gastric Lymphomas. <i>Frontiers in Immunology</i> , 2014, 5, 264.	4.8	23
43	Reversing B cell aging. <i>Aging</i> , 2011, 3, 438-443.	3.1	23
44	Chronic B Cell Deficiency from Birth Prevents Age-Related Alterations in the B Lineage. <i>Journal of Immunology</i> , 2011, 187, 2140-2147.	0.8	22
45	Designing an A* Algorithm for Calculating Edit Distance between Rooted-Unordered Trees. <i>Journal of Computational Biology</i> , 2006, 13, 1165-1176.	1.6	21
46	B-cell clonal diversification and gut lymph node trafficking in ulcerative colitis revealed using lineage tree analysis. <i>European Journal of Immunology</i> , 2008, 38, 2600-2609.	2.9	21
47	Human NK Cells Differ More in Their KIR2DL1-Dependent Thresholds for HLA-Cw6-Mediated Inhibition than in Their Maximal Killing Capacity. <i>PLoS ONE</i> , 2011, 6, e24927.	2.5	21
48	Lineage tree analysis of immunoglobulin variable-region gene mutations in autoimmune diseases: Chronic activation, normal selection. <i>Cellular Immunology</i> , 2006, 244, 130-136.	3.0	20
49	Colonization of the Thymus by T Cell Progenitors: Models for Cell-Cell Interactions. <i>Journal of Theoretical Biology</i> , 1994, 170, 247-257.	1.7	19
50	Lymphocyte Development in Irradiated Thymuses: Dynamics of Colonization by Progenitor Cells and Regeneration of Resident Cells. <i>Journal of Theoretical Biology</i> , 1995, 177, 181-192.	1.7	19
51	Depletion of B cells rejuvenates the peripheral B-cell compartment but is insufficient to restore immune competence in aging. <i>Aging Cell</i> , 2019, 18, e12959.	6.7	19
52	Novel Analysis of Clonal Diversification in Blood B Cell and Bone Marrow Plasma Cell Clones in Immunoglobulin Light Chain Amyloidosis. <i>Journal of Clinical Immunology</i> , 2007, 27, 69-87.	3.8	18
53	BCR CDR3 length distributions differ between blood and spleen and between old and young patients, and TCR distributions can be used to detect myelodysplastic syndrome. <i>Physical Biology</i> , 2013, 10, 056001.	1.8	17
54	Expression and chromosomal organization of mouse meiotic genes. <i>Molecular Reproduction and Development</i> , 2010, 77, 241-248.	2.0	16

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55	Simulations of the NK Cell Immune Synapse Reveal that Activation Thresholds Can Be Established by Inhibitory Receptors Acting Locally. <i>Journal of Immunology</i> , 2011, 187, 760-773.	0.8	16
56	Immunoglobulin variable-region gene mutational lineage tree analysis: Application to autoimmune diseases. <i>Autoimmunity Reviews</i> , 2006, 5, 242-251.	5.8	15
57	Automated cleaning and pre-processing of immunoglobulin gene sequences from high-throughput sequencing. <i>Frontiers in Immunology</i> , 2012, 3, 386.	4.8	14
58	Understanding natural killer cell regulation by mathematical approaches. <i>Frontiers in Immunology</i> , 2012, 3, 359.	4.8	14
59	Lyn deficiency affects B cell maturation as well as survival. <i>European Journal of Immunology</i> , 2012, 42, 511-521.	2.9	14
60	Models for Antigen Receptor Gene Rearrangement. III. Heavy and Light Chain Allelic Exclusion. <i>Journal of Immunology</i> , 2003, 170, 182-193.	0.8	13
61	Quantitative analysis of clonal bone marrow CD19+ B cells: Use of B cell lineage trees to delineate their role in the pathogenesis of light chain amyloidosis. <i>Clinical Immunology</i> , 2006, 120, 106-120.	3.2	13
62	Murine peripheral NK cell populations originate from site-specific immature NK cells more than from BM-derived NK cells. <i>European Journal of Immunology</i> , 2016, 46, 1258-1270.	2.9	12
63	The V _H repertoire and clonal diversification of B cells in inflammatory myopathies. <i>European Journal of Immunology</i> , 2014, 44, 585-596.	2.9	11
64	Bone marrow regeneration under cytotoxic drug regimens: behaviour ranging from homeostasis to unpredictability in a model for hemopoietic differentiation. <i>BioSystems</i> , 1992, 26, 231-237.	2.0	10
65	Automated analysis of immunoglobulin genes from high-throughput sequencing: life without a template. <i>Journal of Clinical Bioinformatics</i> , 2013, 3, 15.	1.2	10
66	Fractal geometry of electron orbits in random systems with strong magnetic field. <i>Physical Review B</i> , 1988, 37, 6349-6352.	3.2	9
67	Modelling Trypanosoma congolense parasitaemia patterns during the chronic phase of infection in Namibian cattle. <i>Parasite Immunology</i> , 1997, 19, 171-182.	1.5	9
68	MHC-Linked Syngeneic Developmental Preference in Thymic Lobes Colonized with Bone Marrow Cells: A Mathematical model. <i>Autoimmunity</i> , 1998, 5, 303-318.	0.6	8
69	Generation of the Natural Killer Cell Repertoire: The Sequential vs. the Two-step Selection Model. <i>Bulletin of Mathematical Biology</i> , 2003, 65, 199-218.	1.9	8
70	Models for Natural Killer Cell Repertoire Formation. <i>Clinical and Developmental Immunology</i> , 2003, 10, 183-192.	3.3	8
71	Kinetic Modeling Reveals a Common Death Niche for Newly Formed and Mature B Cells. <i>PLoS ONE</i> , 2010, 5, e9497.	2.5	8
72	Computational modeling of human natural killer cell development suggests a selection process regulating coexpression of KIR with CD94/NKG2A. <i>Molecular Immunology</i> , 2005, 42, 397-403.	2.2	7

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73	PCR amplification and high throughput sequencing of immunoglobulin heavy chain genes from formalin-fixed paraffin-embedded human biopsies. <i>Experimental and Molecular Pathology</i> , 2013, 94, 182-187.	2.1	7
74	Old questions, new tools: does next-generation sequencing hold the key to unraveling intestinal B-cell responses?. <i>Mucosal Immunology</i> , 2015, 8, 29-37.	6.0	7
75	Maximum likelihood estimator and likelihood ratio test in complex models: an application to B lymphocyte development. <i>Bulletin of Mathematical Biology</i> , 2003, 65, 1131-1139.	1.9	6
76	Models for the dynamics and order of immunoglobulin isotype switching. <i>Bulletin of Mathematical Biology</i> , 2005, 67, 15-32.	1.9	5
77	Feedback Loops, Reversals and Nonlinearities in Lymphocyte Development. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 1073-1094.	1.9	4
78	Modeling and analysis of the meta-population dynamics of lymphocyte repertoires. <i>Journal of Computational and Applied Mathematics</i> , 2005, 184, 223-241.	2.0	3
79	Immune System Modeling and Analysis. <i>Frontiers in Immunology</i> , 2014, 5, 644.	4.8	3
80	Editorial: HLA and KIR Diversity and Polymorphisms: Emerging Concepts. <i>Frontiers in Immunology</i> , 2021, 12, 701398.	4.8	3
81	Ibrutinib, Bendamustine, Rituximab Combination for Relapsed and Refractory Aggressive B Cell Lymphoma – Interim Analysis of Phase II Clinical Trial. <i>Blood</i> , 2018, 132, 4186-4186.	1.4	3
82	Lineage tree analysis of high throughput immunoglobulin sequencing clarifies B cell maturation pathways. , 2015, , .		2
83	Editorial overview Current opinion in systems biology. <i>Current Opinion in Systems Biology</i> , 2018, 12, iv-vi.	2.6	2
84	Identifying a malignant B cell lymphoma clone in peripheral blood using immunoglobulin high-throughput sequencing and lineage tree analysis. <i>International Journal of Laboratory Hematology</i> , 2022, 44, .	1.3	2
85	Modeling the influence of molecule and cell surface micro-domain distribution on the formation of T cell immunological synapses. , 2007, , .		1
86	Editorial: Integrative Computational Systems Biology Approaches in Immunology and Medicine. <i>Frontiers in Microbiology</i> , 2019, 9, 3338.	3.5	1
87	Modeling B cell repertoire shift. <i>Immunology Letters</i> , 1997, 56, 43.	2.5	0
88	News and EFIS – Eur. J. Immunol. 3/2007. <i>European Journal of Immunology</i> , 2007, 37, 585-588.	2.9	0
89	Factors important in evolutionary shaping of immunoglobulin gene loci. <i>Immunome Research</i> , 2010, 6, 13.	0.1	0
90	Immunology in Israel: Society and research. <i>European Journal of Immunology</i> , 2011, 41, 2133-2136.	2.9	0

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91	Immunoglobulin Clonotype and Ontogeny Inference. , 2019, , 972-983.		0
92	THE HUMORAL IMMUNE RESPONSE: COMPLEXITY AND THEORETICAL CHALLENGES. , 2011, , .		0
93	Understanding the Mechanisms of Immune System Aging: Immune System Cell Development and Antibody Repertoires. International Perspectives on Aging, 2014, , 41-53.	0.4	0
94	Temporal Stochasticity Leads to Nondeterministic Chaos in a Model for Blood Cell Production. Institute for Nonlinear Science, 1996, , 419-427.	0.2	0
95	Objective Measures of Pre-Transplant Physiologic Fitness Are Strong Predictors of Very-Short Term Transplantation Related Mortality. Blood, 2016, 128, 2205-2205.	1.4	0
96	PESI—an intelligent system for prediction of enzyme-substrate interactions based on experimental constraints. In Silico Biology, 2002, 2, 495-505.	0.9	0