Mikhail Shugay

List of Publications by Year
in descending order

57 papers	6,450 citations	136950 32 h-index	161849 54 g-index
70 all docs	70 docs citations	70 times ranked	10130 citing authors

#	Article	IF	Citations
1	MiXCR: software for comprehensive adaptive immunity profiling. Nature Methods, 2015, 12, 380-381.	19.0	1,323
2	VDJtools: Unifying Post-analysis of T Cell Receptor Repertoires. PLoS Computational Biology, 2015, 11, e1004503.	3.2	528
3	Towards error-free profiling of immune repertoires. Nature Methods, 2014, 11, 653-655.	19.0	411
4	Age-Related Decrease in TCR Repertoire Diversity Measured with Deep and Normalized Sequence Profiling. Journal of Immunology, 2014, 192, 2689-2698.	0.8	396
5	VDJdb: a curated database of T-cell receptor sequences with known antigen specificity. Nucleic Acids Research, 2018, 46, D419-D427.	14.5	391
6	VDJdb in 2019: database extension, new analysis infrastructure and a T-cell receptor motif compendium. Nucleic Acids Research, 2020, 48, D1057-D1062.	14.5	268
7	Antigen receptor repertoire profiling from RNA-seq data. Nature Biotechnology, 2017, 35, 908-911.	17.5	243
8	tcR: an R package for T cell receptor repertoire advanced data analysis. BMC Bioinformatics, 2015, 16, 175.	2.6	240
9	SARS-CoV-2 Epitopes Are Recognized by a Public and Diverse Repertoire of Human T Cell Receptors. Immunity, 2020, 53, 1245-1257.e5.	14.3	194
10	High-quality full-length immunoglobulin profiling with unique molecular barcoding. Nature Protocols, 2016, 11, 1599-1616.	12.0	179
11	MiTCR: software for T-cell receptor sequencing data analysis. Nature Methods, 2013, 10, 813-814.	19.0	176
12	Dynamics of Individual T Cell Repertoires: From Cord Blood to Centenarians. Journal of Immunology, 2016, 196, 5005-5013.	0.8	160
13	Pairing of <scp>T</scp>â€cell receptor chains via emulsion <scp>PCR</scp>. European Journal of Immunology, 2013, 43, 2507-2515.	2.9	126
14	A mechanism for expansion of regulatory T-cell repertoire and its role in self-tolerance. Nature, 2015, 528, 132-136.	27.8	123
15	Detecting T cell receptors involved in immune responses from single repertoire snapshots. PLoS Biology, 2019, 17, e3000314.	5.6	116
16	Distinctive properties of identical twins' TCR repertoires revealed by high-throughput sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5980-5985.	7.1	106
17	Quantitative Profiling of Immune Repertoires for Minor Lymphocyte Counts Using Unique Molecular Identifiers. Journal of Immunology, 2015, 194, 6155-6163.	0.8	90
18	Oncofuse: a computational framework for the prediction of the oncogenic potential of gene fusions. Bioinformatics, 2013, 29, 2539-2546.	4.1	87

#	Article	IF	Citations
19	The Changing Landscape of Naive T Cell Receptor Repertoire With Human Aging. Frontiers in Immunology, 2018, 9, 1618.	4.8	87
20	Benchmarking of T cell receptor repertoire profiling methods reveals large systematic biases. Nature Biotechnology, 2021, 39, 236-245.	17.5	78
21	The Interplay between CD27dull and CD27bright B Cells Ensures the Flexibility, Stability, and Resilience of Human B Cell Memory. Cell Reports, 2020, 30, 2963-2977.e6.	6.4	76
22	Comparative analysis of murine Tâ€cell receptor repertoires. Immunology, 2018, 153, 133-144.	4.4	72
23	Intratumoral immunoglobulin isotypes predict survival in lung adenocarcinoma subtypes. , 2019, 7, 279.		64
24	High-resolution repertoire analysis reveals a major bystander activation of Tfh and Tfr cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9604-9609.	7.1	62
25	Exploring the pre-immune landscape of antigen-specific T cells. Genome Medicine, 2018, 10, 68.	8.2	60
26	Huge Overlap of Individual TCR Beta Repertoires. Frontiers in Immunology, 2013, 4, 466.	4.8	56
27	Single-cell analysis of glandular T cell receptors in SjÃ¶grenâ€™s syndrome. JCI Insight, 2016, 1, .	5.0	54
28	P2RX7 Purinoceptor: A Therapeutic Target for Ameliorating the Symptoms of Duchenne Muscular Dystrophy. PLoS Medicine, 2015, 12, e1001888.	8.4	51
29	Tracking T-cell immune reconstitution after TCRÎ±Î²/CD19-depleted hematopoietic cells transplantation in children. Leukemia, 2017, 31, 1145-1153.	7.2	44
30	Mother and Childâ€‰T Cell Receptor Repertoires: Deep Profiling Study. Frontiers in Immunology, 2013, 4, 463.	4.8	41
31	The Evidence for Increased L1 Activity in the Site of Human Adult Brain Neurogenesis. PLoS ONE, 2015, 10, e0117854.	2.5	41
32	CD8+ T cells with characteristic T cell receptor beta motif are detected in blood and expanded in synovial fluid of ankylosing spondylitis patients. Rheumatology, 2018, 57, 1097-1104.	1.9	41
33	Diversity in immunogenomics: the value and the challenge. Nature Methods, 2021, 18, 588-591.	19.0	40
34	Benchmarking immunoinformatic tools for the analysis of antibody repertoire sequences. Bioinformatics, 2020, 36, 1731-1739.	4.1	39
35	MAGERI: Computational pipeline for molecular-barcoded targeted resequencing. PLoS Computational Biology, 2017, 13, e1005480.	3.2	37
36	A Framework for Annotation of Antigen Specificities in High-Throughput T-Cell Repertoire Sequencing Studies. Frontiers in Immunology, 2019, 10, 2159.	4.8	36

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37	VDJviz: a versatile browser for immunogenomics data. BMC Genomics, 2016, 17, 453.	2.8	35
38	MHC-II alleles shape the CDR3 repertoires of conventional and regulatory naïve CD4$^+$T cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13659-13669.	7.1	28
39	Genomic Hallmarks of Genes Involved in Chromosomal Translocations in Hematological Cancer. PLoS Computational Biology, 2012, 8, e1002797.	3.2	27
40	A high-throughput assay for quantitative measurement of PCR errors. Scientific Reports, 2017, 7, 2718.	3.3	27
41	Comparative Analysis of B-Cell Receptor Repertoires Induced by Live Yellow Fever Vaccine in Young and Middle-Age Donors. Frontiers in Immunology, 2018, 9, 2309.	4.8	25
42	An overview of immunoinformatics approaches and databases linking T cell receptor repertoires to their antigen specificity. Immunogenetics, 2020, 72, 77-84.	2.4	25
43	sumrep: A Summary Statistic Framework for Immune Receptor Repertoire Comparison and Model Validation. Frontiers in Immunology, 2019, 10, 2533.	4.8	22
44	TCR usage, gene expression and function of two distinct FOXP3$^+$Treg subsets within CD4$^+$CD25^{hi} T cells identified by expression of CD39 and CD45RO. Immunology and Cell Biology, 2016, 94, 293-305.	2.3	19
45	Comprehensive analysis of structural and sequencing data reveals almost unconstrained chain pairing in TCRαβ complex. PLoS Computational Biology, 2020, 16, e1007714.	3.2	13
46	CD4+ T Cells Recognize Conserved Influenza A Epitopes through Shared Patterns of V-Gene Usage and Complementary Biochemical Features. Cell Reports, 2020, 32, 107885.	6.4	11
47	Accounting for B-cell Behavior and Sampling Bias Predicts Anti–PD-L1 Response in Bladder Cancer. Cancer Immunology Research, 2022, 10, 343-353.	3.4	9
48	LIF, a Novel STAT5-Regulated Gene, Is Aberrantly Expressed in Myeloproliferative Neoplasms. Genes and Cancer, 2011, 2, 593-596.	1.9	8
49	T-cell tracking, safety, and effect of low-dose donor memory T-cell infusions after αβ T cell-depleted hematopoietic stem cell transplantation. Bone Marrow Transplantation, 2021, 56, 900-908.	2.4	8
50	A T cell repertoire timestamp is at the core of responsiveness to CTLA-4 blockade. IScience, 2021, 24, 102100.	4.1	8
51	Distinct organization of adaptive immunity in the long-lived rodent Spalax galili. Nature Aging, 2021, 1, 179-189.	11.6	5
52	Ancestral diversity is limited in published T cell receptor sequencing studies. Immunity, 2021, 54, 2177-2179.	14.3	3
53	Application of nonsense-mediated primer exclusion (NOPE) for preparation of unique molecular barcoded libraries. BMC Genomics, 2017, 18, 440.	2.8	2
54	Sequencing rare T-cell populations. Oncotarget, 2015, 6, 39393-39394.	1.8	2

#	ARTICLE	IF	CITATIONS
55	Subsequent malaria enhances virus-specific T cell immunity in SIV-infected Chinese rhesus macaques. Cell Communication and Signaling, 2022, 20, .	6.5	2
56	New Regions With Molecular Alterations in a Rare Case of Insulinomatosis: Case Report With Literature Review. Frontiers in Endocrinology, 2021, 12, 760154.	3.5	1
57	Estimating the number of HIV-specific T-cells in healthy donors using high-throughput sequencing profiles of T-cell receptor repertoires. Bulletin of Russian State Medical University, 2017, , 75-80.	0.2	0