

Dmitriy Chudakov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers

12,564
citations

58
h-index

111
g-index

159
ext. papers

15,920
ext. citations

11.9
avg, IF

6.19
L-index

#	Paper	IF	Citations
140	Deep cfDNA fragment end profiling enables cancer detection.. <i>Molecular Cancer</i> , 2022 , 21, 26	42.1	2
139	Natural Flt3Lg-Based Chimeric Antigen Receptor (Flt3-CAR) T Cells Successfully Target Flt3 on AML Cell Lines. <i>Vaccines</i> , 2021 , 9,	5.3	2
138	T-cell tracking, safety, and effect of low-dose donor memory T-cell infusions after Γ cell-depleted hematopoietic stem cell transplantation. <i>Bone Marrow Transplantation</i> , 2021 , 56, 900-908	4.4	2
137	Benchmarking of T cell receptor repertoire profiling methods reveals large systematic biases. <i>Nature Biotechnology</i> , 2021 , 39, 236-245	44.5	35
136	Longitudinal high-throughput TCR repertoire profiling reveals the dynamics of T-cell memory formation after mild COVID-19 infection. <i>ELife</i> , 2021 , 10,	8.9	44
135	Distinct organization of adaptive immunity in the long-lived rodent <i>Spalax galili</i> . <i>Nature Aging</i> , 2021 , 1, 179-189		1
134	Naïve Regulatory T Cell Subset Is Altered in X-Linked Agammaglobulinemia. <i>Frontiers in Immunology</i> , 2021 , 12, 697307	8.4	1
133	MHC-II alleles shape the CDR3 repertoires of conventional and regulatory naïve CD4 T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13659-13669	11.5	11
132	Measuring Intratumoral Heterogeneity of Immune Repertoires. <i>Frontiers in Oncology</i> , 2020 , 10, 512	5.3	4
131	The Interplay between CD27 and CD27 B Cells Ensures the Flexibility, Stability, and Resilience of Human B Cell Memory. <i>Cell Reports</i> , 2020 , 30, 2963-2977.e6	10.6	43
130	B cells, plasma cells and antibody repertoires in the tumour microenvironment. <i>Nature Reviews Immunology</i> , 2020 , 20, 294-307	36.5	149
129	RNA-Seq-Based TCR Profiling Reveals Persistently Increased Intratumoral Clonality in Responders to Anti-PD-1 Therapy. <i>Frontiers in Oncology</i> , 2020 , 10, 385	5.3	4
128	Γ -cell Receptors Derived from Breast Cancer-Infiltrating T Lymphocytes Mediate Antitumor Reactivity. <i>Cancer Immunology Research</i> , 2020 , 8, 530-543	12.5	18
127	Primary and secondary anti-viral response captured by the dynamics and phenotype of individual T cell clones. <i>ELife</i> , 2020 , 9,	8.9	25
126	Functionally specialized human CD4 T-cell subsets express physicochemically distinct TCRs. <i>ELife</i> , 2020 , 9,	8.9	3
125	Author response: Longitudinal high-throughput TCR repertoire profiling reveals the dynamics of T-cell memory formation after mild COVID-19 infection 2020 ,		2
124	Adoptive Immunotherapy Based on Chain-Centric TCRs in Treatment of Infectious Diseases. <i>IScience</i> , 2020 , 23, 101854	6.1	7

123	High-throughput sequencing of T-cell receptor alpha chain clonal rearrangements at the DNA level in lymphoid malignancies. <i>British Journal of Haematology</i> , 2020 , 188, 723-731	4.5	5
122	CD4 T Follicular Helper Cells in Human Tonsils and Blood Are Clonally Convergent but Divergent from Non-Tfh CD4 Cells. <i>Cell Reports</i> , 2020 , 30, 137-152.e5	10.6	46
121	Two subsets of stem-like CD8 memory T cell progenitors with distinct fate commitments in humans. <i>Nature Immunology</i> , 2020 , 21, 1552-1562	19.1	57
120	VDJdb in 2019: database extension, new analysis infrastructure and a T-cell receptor motif compendium. <i>Nucleic Acids Research</i> , 2020 , 48, D1057-D1062	20.1	107
119	TCRs with segment TRAV9-2 or a CDR3 histidine are overrepresented among nickel-specific CD4+ T cells. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020 , 75, 2574-2586	9.3	8
118	Memory CD4 T cells are generated in the human fetal intestine. <i>Nature Immunology</i> , 2019 , 20, 301-312	19.1	77
117	Detecting T cell receptors involved in immune responses from single repertoire snapshots. <i>PLoS Biology</i> , 2019 , 17, e3000314	9.7	53
116	PiggyBac transposon tools for recessive screening identify B-cell lymphoma drivers in mice. <i>Nature Communications</i> , 2019 , 10, 1415	17.4	25
115	Intratumoral immunoglobulin isotypes predict survival in lung adenocarcinoma subtypes 2019 , 7, 279		28
114	Correlated dynamics of serum IGE and IGE+ clonotype count with allergen air level in seasonal allergic rhinitis. <i>Bulletin of Russian State Medical University</i> , 2019 , 13-22	0.4	
113	CXCR3 Identifies Human Naive CD8 T Cells with Enhanced Effector Differentiation Potential. <i>Journal of Immunology</i> , 2019 , 203, 3179-3189	5.3	21
112	Quantitative profiling reveals minor changes of T cell receptor repertoire in response to subunit inactivated influenza vaccine. <i>Vaccine</i> , 2018 , 36, 1599-1605	4.1	8
111	CD8+ T cells with characteristic T cell receptor beta motif are detected in blood and expanded in synovial fluid of ankylosing spondylitis patients. <i>Rheumatology</i> , 2018 , 57, 1097-1104	3.9	22
110	VDJdb: a curated database of T-cell receptor sequences with known antigen specificity. <i>Nucleic Acids Research</i> , 2018 , 46, D419-D427	20.1	183
109	The human V α T-cell compartment comprises distinct innate-like V α and adaptive V α subsets. <i>Nature Communications</i> , 2018 , 9, 1760	17.4	106
108	Comparative analysis of murine T-cell receptor repertoires. <i>Immunology</i> , 2018 , 153, 133-144	7.8	29
107	The Changing Landscape of Naive T Cell Receptor Repertoire With Human Aging. <i>Frontiers in Immunology</i> , 2018 , 9, 1618	8.4	58
106	Optimized Peptide-MHC Multimer Protocols for Detection and Isolation of Autoimmune T-Cells. <i>Frontiers in Immunology</i> , 2018 , 9, 1378	8.4	33

105	Method for identification of condition-associated public antigen receptor sequences. <i>ELife</i> , 2018 , 7,	8.9	33
104	Reply to "Evaluation of immune repertoire inference methods from RNA-seq data". <i>Nature Biotechnology</i> , 2018 , 36, 1035-1036	44.5	4
103	Precise tracking of vaccine-responding T cell clones reveals convergent and personalized response in identical twins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12704-12709	11.5	58
102	Comparative Analysis of B-Cell Receptor Repertoires Induced by Live Yellow Fever Vaccine in Young and Middle-Age Donors. <i>Frontiers in Immunology</i> , 2018 , 9, 2309	8.4	11
101	CD49b defines functionally mature Treg cells that survey skin and vascular tissues. <i>Journal of Experimental Medicine</i> , 2018 , 215, 2796-2814	16.6	19
100	Human liver infiltrating $\gamma\delta$ T cells are composed of clonally expanded circulating and tissue-resident populations. <i>Journal of Hepatology</i> , 2018 , 69, 654-665	13.4	71
99	Clonal selection in the human V β T cell repertoire indicates TCR-dependent adaptive immune surveillance. <i>Nature Communications</i> , 2017 , 8, 14760	17.4	137
98	Stability and function of regulatory T cells expressing the transcription factor T-bet. <i>Nature</i> , 2017 , 546, 421-425	50.4	189
97	Antigen receptor repertoire profiling from RNA-seq data. <i>Nature Biotechnology</i> , 2017 , 35, 908-911	44.5	125
96	Wnt/ β Catenin Signaling Induces Integrin α β 1 in T Cells and Promotes a Progressive Neuroinflammatory Disease in Mice. <i>Journal of Immunology</i> , 2017 , 199, 3031-3041	5.3	16
95	A high-throughput assay for quantitative measurement of PCR errors. <i>Scientific Reports</i> , 2017 , 7, 2718	4.9	16
94	Application of nonsense-mediated primer exclusion (NOPE) for preparation of unique molecular barcoded libraries. <i>BMC Genomics</i> , 2017 , 18, 440	4.5	2
93	Tracking T-cell immune reconstitution after TCR/CD19-depleted hematopoietic cells transplantation in children. <i>Leukemia</i> , 2017 , 31, 1145-1153	10.7	34
92	MAGERI: Computational pipeline for molecular-barcoded targeted resequencing. <i>PLoS Computational Biology</i> , 2017 , 13, e1005480	5	23
91	Persisting fetal clonotypes influence the structure and overlap of adult human T cell receptor repertoires. <i>PLoS Computational Biology</i> , 2017 , 13, e1005572	5	56
90	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. <i>Immunology and Cell Biology</i> , 2016 , 94, 293-305	5	15
89	Regulatory T Cells Exhibit Distinct Features in Human Breast Cancer. <i>Immunity</i> , 2016 , 45, 1122-1134	32.3	329
88	Reliability of immune receptor rearrangements as genetic markers for minimal residual disease monitoring. <i>Bone Marrow Transplantation</i> , 2016 , 51, 1408-1410	4.4	5

87	VDJviz: a versatile browser for immunogenomics data. <i>BMC Genomics</i> , 2016 , 17, 453	4.5	19
86	Single-cell analysis of glandular T cell receptors in Sjögren's syndrome. <i>JCI Insight</i> , 2016 , 1,	9.9	22
85	Bimolecular fluorescence complementation based on the red fluorescent protein FusionRed. <i>Russian Journal of Bioorganic Chemistry</i> , 2016 , 42, 619-623	1	2
84	Dynamics of Individual T Cell Repertoires: From Cord Blood to Centenarians. <i>Journal of Immunology</i> , 2016 , 196, 5005-13	5.3	94
83	High-quality full-length immunoglobulin profiling with unique molecular barcoding. <i>Nature Protocols</i> , 2016 , 11, 1599-616	18.8	109
82	MiXCR: software for comprehensive adaptive immunity profiling. <i>Nature Methods</i> , 2015 , 12, 380-1	21.6	696
81	Quantitative profiling of immune repertoires for minor lymphocyte counts using unique molecular identifiers. <i>Journal of Immunology</i> , 2015 , 194, 6155-63	5.3	58
80	A mechanism for expansion of regulatory T-cell repertoire and its role in self-tolerance. <i>Nature</i> , 2015 , 528, 132-136	50.4	96
79	tcR: an R package for T cell receptor repertoire advanced data analysis. <i>BMC Bioinformatics</i> , 2015 , 16, 175	3.6	156
78	VDJtools: Unifying Post-analysis of T Cell Receptor Repertoires. <i>PLoS Computational Biology</i> , 2015 , 11, e1004503	5	282
77	Comparative study reveals better far-red fluorescent protein for whole body imaging. <i>Scientific Reports</i> , 2015 , 5, 10332	4.9	28
76	Age-related decrease in TCR repertoire diversity measured with deep and normalized sequence profiling. <i>Journal of Immunology</i> , 2014 , 192, 2689-98	5.3	249
75	Distinctive properties of identical twins' TCR repertoires revealed by high-throughput sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5980-5	11.5	86
74	Towards error-free profiling of immune repertoires. <i>Nature Methods</i> , 2014 , 11, 653-5	21.6	267
73	Experimental models of arthritis in which pathogenesis is dependent on TNF expression. <i>Biochemistry (Moscow)</i> , 2014 , 79, 1349-57	2.9	10
72	HRES-1/Rab4-mediated depletion of Drp1 impairs mitochondrial homeostasis and represents a target for treatment in SLE. <i>Annals of the Rheumatic Diseases</i> , 2014 , 73, 1888-97	2.4	88
71	HRES-1/Rab4 promotes the formation of LC3(+) autophagosomes and the accumulation of mitochondria during autophagy. <i>PLoS ONE</i> , 2014 , 9, e84392	3.7	33
70	MiTCR: software for T-cell receptor sequencing data analysis. <i>Nature Methods</i> , 2013 , 10, 813-4	21.6	138

69	High-throughput identification of antigen-specific TCRs by TCR gene capture. <i>Nature Medicine</i> , 2013 , 19, 1534-41	50.5	127
68	Yellow fluorescent protein phiYFPv (Phialidium): structure and structure-based mutagenesis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 1005-12		15
67	Pairing of T-cell receptor chains via emulsion PCR. <i>European Journal of Immunology</i> , 2013 , 43, 2507-15	6.1	95
66	Structure of the red fluorescent protein from a lancelet (<i>Branchiostoma lanceolatum</i>): a novel GYG chromophore covalently bound to a nearby tyrosine. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 1850-60		13
65	Preparing unbiased T-cell receptor and antibody cDNA libraries for the deep next generation sequencing profiling. <i>Frontiers in Immunology</i> , 2013 , 4, 456	8.4	104
64	Huge Overlap of Individual TCR Beta Repertoires. <i>Frontiers in Immunology</i> , 2013 , 4, 466	8.4	32
63	Mother and child T cell receptor repertoires: deep profiling study. <i>Frontiers in Immunology</i> , 2013 , 4, 463	8.4	36
62	Structural basis for bathochromic shift of fluorescence in far-red fluorescent proteins eqFP650 and eqFP670. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012 , 68, 1088-97		17
61	A monomeric red fluorescent protein with low cytotoxicity. <i>Nature Communications</i> , 2012 , 3, 1204	17.4	139
60	First autologous hematopoietic SCT for ankylosing spondylitis: a case report and clues to understanding the therapy. <i>Bone Marrow Transplantation</i> , 2012 , 47, 1479-81	4.4	20
59	Next generation sequencing for TCR repertoire profiling: platform-specific features and correction algorithms. <i>European Journal of Immunology</i> , 2012 , 42, 3073-83	6.1	121
58	In vivo imaging of ligand receptor binding with Gaussia luciferase complementation. <i>Nature Medicine</i> , 2011 , 18, 172-7	50.5	61
57	Visualizing compound transgenic zebrafish in development: a tale of green fluorescent protein and KillerRed. <i>Zebrafish</i> , 2011 , 8, 23-9	2	17
56	Molecular mechanism of a green-shifted, pH-dependent red fluorescent protein mKate variant. <i>PLoS ONE</i> , 2011 , 6, e23513	3.7	8
55	Circular permutation of red fluorescent proteins. <i>PLoS ONE</i> , 2011 , 6, e20505	3.7	29
54	Optogenetic experimentation on astrocytes. <i>Experimental Physiology</i> , 2011 , 96, 40-50	2.4	64
53	Single high-dose treatment with glucosaminyl-muramyl dipeptide is ineffective in treating ankylosing spondylitis. <i>Rheumatology International</i> , 2011 , 31, 1101-3	3.6	3
52	Crystallographic study of red fluorescent protein eqFP578 and its far-red variant Katushka reveals opposite pH-induced isomerization of chromophore. <i>Protein Science</i> , 2011 , 20, 1265-74	6.3	25

51	Quantitative tracking of T cell clones after haematopoietic stem cell transplantation. <i>EMBO Molecular Medicine</i> , 2011 , 3, 201-7	12	53
50	Light-induced blockage of cell division with a chromatin-targeted phototoxic fluorescent protein. <i>Biochemical Journal</i> , 2011 , 435, 65-71	3.8	37
49	Contribution of functional KIR3DL1 to ankylosing spondylitis. <i>Cellular and Molecular Immunology</i> , 2010 , 7, 471-6	15.4	30
48	Near-infrared fluorescent proteins. <i>Nature Methods</i> , 2010 , 7, 827-9	21.6	184
47	Astroglia are a possible cellular substrate of angiotensin(1-7) effects in the rostral ventrolateral medulla. <i>Cardiovascular Research</i> , 2010 , 87, 578-84	9.9	39
46	The structure of Ca ²⁺ sensor Case16 reveals the mechanism of reaction to low Ca ²⁺ concentrations. <i>Sensors</i> , 2010 , 10, 8143-60	3.8	16
45	Fluorescent proteins and their applications in imaging living cells and tissues. <i>Physiological Reviews</i> , 2010 , 90, 1103-63	47.9	956
44	Fluorescent proteins as light-inducible photochemical partners. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 1301-6	4.2	37
43	Extracellular calcium depletion transiently elevates oxygen consumption in neurosecretory PC12 cells through activation of mitochondrial Na ⁺ /Ca ²⁺ exchange. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 1627-37	4.6	26
42	Human Mitons associate with mitochondria and induce microtubule-dependent remodeling of mitochondrial networks. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010 , 1803, 564-74	4.9	57
41	Optogenetic in vivo cell manipulation in KillerRed-expressing zebrafish transgenics. <i>BMC Developmental Biology</i> , 2010 , 10, 110	3.1	75
40	Spectrally-resolved response properties of the three most advanced FRET based fluorescent protein voltage probes. <i>PLoS ONE</i> , 2009 , 4, e4555	3.7	64
39	Structural basis for phototoxicity of the genetically encoded photosensitizer KillerRed. <i>Journal of Biological Chemistry</i> , 2009 , 284, 32028-39	5.4	102
38	Targeting cancer cells by using an antireceptor antibody-photosensitizer fusion protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9221-5	11.5	118
37	Practical and reliable FRET/FLIM pair of fluorescent proteins. <i>BMC Biotechnology</i> , 2009 , 9, 24	3.5	78
36	Green fluorescent proteins are light-induced electron donors. <i>Nature Chemical Biology</i> , 2009 , 5, 459-61	11.7	156
35	Cell culture medium affects GFP photostability: a solution. <i>Nature Methods</i> , 2009 , 6, 859-60	21.6	61
34	Far-red fluorescent tags for protein imaging in living tissues. <i>Biochemical Journal</i> , 2009 , 418, 567-74	3.8	401

33	Individual characterization of stably expanded T cell clones in ankylosing spondylitis patients. <i>Autoimmunity</i> , 2009 , 42, 525-36	3	13
32	Substrate recognition of anthrax lethal factor examined by combinatorial and pre-steady-state kinetic approaches. <i>Journal of Biological Chemistry</i> , 2009 , 284, 17902-13	5.4	17
31	A crystallographic study of bright far-red fluorescent protein mKate reveals pH-induced cis-trans isomerization of the chromophore. <i>Journal of Biological Chemistry</i> , 2008 , 283, 28980-7	5.4	84
30	Conversion of red fluorescent protein into a bright blue probe. <i>Chemistry and Biology</i> , 2008 , 15, 1116-24		208
29	Substrate specificity of the anthrax lethal factor. <i>Doklady Biochemistry and Biophysics</i> , 2008 , 418, 14-7	0.8	2
28	Using photoactivatable fluorescent protein Dendra2 to track protein movement. <i>BioTechniques</i> , 2007 , 42, 553, 555, 557 passim	2.5	94
27	Single fluorescent protein-based Ca ²⁺ sensors with increased dynamic range. <i>BMC Biotechnology</i> , 2007 , 7, 37	3.5	89
26	Genetically encoded intracellular sensors based on fluorescent proteins. <i>Biochemistry (Moscow)</i> , 2007 , 72, 683-97	2.9	14
25	Bright monomeric red fluorescent protein with an extended fluorescence lifetime. <i>Nature Methods</i> , 2007 , 4, 555-7	21.6	486
24	Bright far-red fluorescent protein for whole-body imaging. <i>Nature Methods</i> , 2007 , 4, 741-6	21.6	508
23	Tracking intracellular protein movements using photoswitchable fluorescent proteins PS-CFP2 and Dendra2. <i>Nature Protocols</i> , 2007 , 2, 2024-32	18.8	214
22	Photoswitchable cyan fluorescent protein as a FRET donor. <i>Microscopy Research and Technique</i> , 2006 , 69, 207-9	2.8	10
21	Fast and precise protein tracking using repeated reversible photoactivation. <i>Traffic</i> , 2006 , 7, 1304-10	5.7	23
20	A genetically encoded photosensitizer. <i>Nature Biotechnology</i> , 2006 , 24, 95-9	44.5	439
19	Chromophore-assisted light inactivation (CALI) using the phototoxic fluorescent protein KillerRed. <i>Nature Protocols</i> , 2006 , 1, 947-53	18.8	154
18	Structural basis for the fast maturation of Arthropoda green fluorescent protein. <i>EMBO Reports</i> , 2006 , 7, 1006-12	6.5	84
17	Kindling fluorescent protein from <i>Anemonia sulcata</i> : dark-state structure at 1.38 Å resolution. <i>Biochemistry</i> , 2005 , 44, 5774-87	3.2	141
16	Discovery and Properties of GFP-Like Proteins from Nonbioluminescent Anthozoa. <i>Methods of Biochemical Analysis</i> , 2005 , 121-138		6

15	Far-red fluorescent proteins evolved from a blue chromoprotein from <i>Actinia equina</i> . <i>Biochemical Journal</i> , 2005 , 392, 649-54	3.8	73
14	Innovation: Photoactivatable fluorescent proteins. <i>Nature Reviews Molecular Cell Biology</i> , 2005 , 6, 885-91	18.7	411
13	Fluorescent proteins as a toolkit for in vivo imaging. <i>Trends in Biotechnology</i> , 2005 , 23, 605-13	15.1	384
12	New class of blue animal pigments based on Frizzled and Kringle protein domains. <i>Journal of Biological Chemistry</i> , 2004 , 279, 43367-70	5.4	13
11	Photoswitchable cyan fluorescent protein for protein tracking. <i>Nature Biotechnology</i> , 2004 , 22, 1435-9	44.5	309
10	Common pathway for the red chromophore formation in fluorescent proteins and chromoproteins. <i>Chemistry and Biology</i> , 2004 , 11, 845-54		91
9	Chromophore environment provides clue to "kindling fluorescent protein" riddle. <i>Journal of Biological Chemistry</i> , 2003 , 278, 7215-9	5.4	122
8	Hetero-oligomeric tagging diminishes non-specific aggregation of target proteins fused with Anthozoa fluorescent proteins. <i>Biochemical Journal</i> , 2003 , 371, 109-14	3.8	27
7	Use of green fluorescent protein (GFP) and its homologs for in vivo protein motility studies. <i>Biochemistry (Moscow)</i> , 2003 , 68, 952-7	2.9	9
6	Kindling fluorescent proteins for precise in vivo photolabeling. <i>Nature Biotechnology</i> , 2003 , 21, 191-4	44.5	278
5	Precise tracking of vaccine-responding T-cell clones reveals convergent and personalized response in identical twins		1
4	Detecting T-cell receptors involved in immune responses from single repertoire snapshots		1
3	Comprehensive analysis of antiviral adaptive immunity formation and reactivation down to single-cell level		2
2	Longitudinal high-throughput TCR repertoire profiling reveals the dynamics of T cell memory formation after mild COVID-19 infection		6
1	SARS-CoV-2 escape from cytotoxic T cells during long-term COVID-19		3