

Nir Hacoheh

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

30,594
citations

18482
62
h-index

24258
110
g-index

144
all docs

144
docs citations

144
times ranked

49273
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular and Genetic Properties of Tumors Associated with Local Immune Cytolytic Activity. Cell, 2015, 160, 48-61.	28.9	2,948
2	An immunogenic personal neoantigen vaccine for patients with melanoma. Nature, 2017, 547, 217-221.	27.8	2,112
3	Single-cell RNA-seq reveals new types of human blood dendritic cells, monocytes, and progenitors. Science, 2017, 356, .	12.6	1,846
4	CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. Cell, 2014, 159, 440-455.	28.9	1,566
5	B cells and tertiary lymphoid structures promote immunotherapy response. Nature, 2020, 577, 549-555.	27.8	1,421
6	Defining T Cell States Associated with Response to Checkpoint Immunotherapy in Melanoma. Cell, 2018, 175, 998-1013.e20.	28.9	1,260
7	Perturbation of m6A Writers Reveals Two Distinct Classes of mRNA Methylation at Internal and 5' Sites. Cell Reports, 2014, 8, 284-296.	6.4	972
8	Neoantigen vaccine generates intratumoral T cell responses in phase Ib glioblastoma trial. Nature, 2019, 565, 234-239.	27.8	956
9	Single-cell RNA-seq reveals dynamic paracrine control of cellular variation. Nature, 2014, 510, 363-369.	27.8	872
10	Meta- and Orthogonal Integration of Influenza 'OMICs' Data Defines a Role for UBR4 in Virus Budding. Cell Host and Microbe, 2015, 18, 723-735.	11.0	868
11	Landscape of X chromosome inactivation across human tissues. Nature, 2017, 550, 244-248.	27.8	764
12	Defining inflammatory cell states in rheumatoid arthritis joint synovial tissues by integrating single-cell transcriptomics and mass cytometry. Nature Immunology, 2019, 20, 928-942.	14.5	760
13	Resistance to checkpoint blockade therapy through inactivation of antigen presentation. Nature Communications, 2017, 8, 1136.	12.8	686
14	Mass Spectrometry Profiling of HLA-Associated Peptidomes in Mono-allelic Cells Enables More Accurate Epitope Prediction. Immunity, 2017, 46, 315-326.	14.3	596
15	A Physical and Regulatory Map of Host-Influenza Interactions Reveals Pathways in H1N1 Infection. Cell, 2009, 139, 1255-1267.	28.9	593
16	COVID-19 tissue atlases reveal SARS-CoV-2 pathology and cellular targets. Nature, 2021, 595, 107-113.	27.8	537
17	Systematic comparison of single-cell and single-nucleus RNA-sequencing methods. Nature Biotechnology, 2020, 38, 737-746.	17.5	527
18	Viral epitope profiling of COVID-19 patients reveals cross-reactivity and correlates of severity. Science, 2020, 370, .	12.6	511

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19	The immune cell landscape in kidneys of patients with lupus nephritis. Nature Immunology, 2019, 20, 902-914.	14.5	501
20	Dynamic profiling of the protein life cycle in response to pathogens. Science, 2015, 347, 1259038.	12.6	408
21	Common Genetic Variants Modulate Pathogen-Sensing Responses in Human Dendritic Cells. Science, 2014, 343, 1246980.	12.6	391
22	A Genome-wide CRISPR Screen in Primary Immune Cells to Dissect Regulatory Networks. Cell, 2015, 162, 675-686.	28.9	383
23	Lineage Tracing in Humans Enabled by Mitochondrial Mutations and Single-Cell Genomics. Cell, 2019, 176, 1325-1339.e22.	28.9	345
24	Genome-wide enhancer maps link risk variants to disease genes. Nature, 2021, 593, 238-243.	27.8	332
25	A large peptidome dataset improves HLA class I epitope prediction across most of the human population. Nature Biotechnology, 2020, 38, 199-209.	17.5	324
26	Locally Disordered Methylation Forms the Basis of Intratumor Methylome Variation in Chronic Lymphocytic Leukemia. Cancer Cell, 2014, 26, 813-825.	16.8	323
27	A genome-wide CRISPR screen identifies a restricted set of HIV host dependency factors. Nature Genetics, 2017, 49, 193-203.	21.4	290
28	Landscape of tumor-infiltrating T cell repertoire of human cancers. Nature Genetics, 2016, 48, 725-732.	21.4	288
29	Key Parameters of Tumor Epitope Immunogenicity Revealed Through a Consortium Approach Improve Neoantigen Prediction. Cell, 2020, 183, 818-834.e13.	28.9	287
30	Systematic identification of personal tumor-specific neoantigens in chronic lymphocytic leukemia. Blood, 2014, 124, 453-462.	1.4	286
31	Aryl Hydrocarbon Receptor Controls Monocyte Differentiation into Dendritic Cells versus Macrophages. Immunity, 2017, 47, 582-596.e6.	14.3	282
32	An immune-cell signature of bacterial sepsis. Nature Medicine, 2020, 26, 333-340.	30.7	261
33	Spatially organized multicellular immune hubs in human colorectal cancer. Cell, 2021, 184, 4734-4752.e20.	28.9	256
34	Personal neoantigen vaccines induce persistent memory T cell responses and epitope spreading in patients with melanoma. Nature Medicine, 2021, 27, 515-525.	30.7	248
35	Phenotype, specificity and avidity of antitumour CD8+ T cells in melanoma. Nature, 2021, 596, 119-125.	27.8	239
36	Intersection of population variation and autoimmunity genetics in human T cell activation. Science, 2014, 345, 1254665.	12.6	218

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37	PD-1 blockade in subprimed CD8 cells induces dysfunctional PD-1+CD38hi cells and anti-PD-1 resistance. Nature Immunology, 2019, 20, 1231-1243.	14.5	217
38	Temporal and spatial heterogeneity of host response to SARS-CoV-2 pulmonary infection. Nature Communications, 2020, 11, 6319.	12.8	203
39	A Regression-Based Analysis of Ribosome-Profiling Data Reveals a Conserved Complexity to Mammalian Translation. Molecular Cell, 2015, 60, 816-827.	9.7	200
40	HLA-Binding Properties of Tumor Neopeptides in Humans. Cancer Immunology Research, 2014, 2, 522-529.	3.4	194
41	Longitudinal proteomic analysis of severe COVID-19 reveals survival-associated signatures, tissue-specific cell death, and cell-cell interactions. Cell Reports Medicine, 2021, 2, 100287.	6.5	183
42	Dnae2a Deficiency Uncovers Lysosomal Clearance of Damaged Nuclear DNA via Autophagy. Cell Reports, 2014, 9, 180-192.	6.4	182
43	Getting Personal with Neoantigen-Based Therapeutic Cancer Vaccines. Cancer Immunology Research, 2013, 1, 11-15.	3.4	167
44	Massively parallel single-cell mitochondrial DNA genotyping and chromatin profiling. Nature Biotechnology, 2021, 39, 451-461.	17.5	150
45	An eQTL Landscape of Kidney Tissue in Human Nephrotic Syndrome. American Journal of Human Genetics, 2018, 103, 232-244.	6.2	147
46	Genome-wide CRISPR screen identifies host dependency factors for influenza A virus infection. Nature Communications, 2020, 11, 164.	12.8	136
47	Cumulus provides cloud-based data analysis for large-scale single-cell and single-nucleus RNA-seq. Nature Methods, 2020, 17, 793-798.	19.0	134
48	Unannotated proteins expand the MHC-I-restricted immunopeptidome in cancer. Nature Biotechnology, 2022, 40, 209-217.	17.5	127
49	Large-Scale Topological Changes Restrict Malignant Progression in Colorectal Cancer. Cell, 2020, 182, 1474-1489.e23.	28.9	126
50	Differential pre-malignant programs and microenvironment chart distinct paths to malignancy in human colorectal polyps. Cell, 2021, 184, 6262-6280.e26.	28.9	125
51	Landscape of B cell immunity and related immune evasion in human cancers. Nature Genetics, 2019, 51, 560-567.	21.4	115
52	Radiation therapy enhances immunotherapy response in microsatellite stable colorectal and pancreatic adenocarcinoma in a phase II trial. Nature Cancer, 2021, 2, 1124-1135.	13.2	112
53	Single cell transcriptomics identifies focal segmental glomerulosclerosis remission endothelial biomarker. JCI Insight, 2020, 5, .	5.0	108
54	Profiling SARS-CoV-2 HLA-I peptidome reveals T cell epitopes from out-of-frame ORFs. Cell, 2021, 184, 3962-3980.e17.	28.9	98

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55	SARS-CoV-2 viremia is associated with distinct proteomic pathways and predicts COVID-19 outcomes. Journal of Clinical Investigation, 2021, 131, .	8.2	94
56	Methods for high-dimensional analysis of cells dissociated from cryopreserved synovial tissue. Arthritis Research and Therapy, 2018, 20, 139.	3.5	93
57	A secreted PD-L1 splice variant that covalently dimerizes and mediates immunosuppression. Cancer Immunology, Immunotherapy, 2019, 68, 421-432.	4.2	93
58	The Chaperone UNC93B1 Regulates Toll-like Receptor Stability Independently of Endosomal TLR Transport. Immunity, 2018, 48, 911-922.e7.	14.3	92
59	Extranuclear DNA accumulates in aged cells and contributes to senescence and inflammation. Aging Cell, 2019, 18, e12901.	6.7	84
60	Functional screen of MSI2 interactors identifies an essential role for SYNCRIP in myeloid leukemia stem cells. Nature Genetics, 2017, 49, 866-875.	21.4	75
61	Positional specificity of different transcription factor classes within enhancers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7222-E7230.	7.1	72
62	Systems Immunology: Learning the Rules of the Immune System. Annual Review of Immunology, 2018, 36, 813-842.	21.8	70
63	Landscape of helper and regulatory antitumour CD4+ T cells in melanoma. Nature, 2022, 605, 532-538.	27.8	70
64	Streamlined Protocol for Deep Proteomic Profiling of FAC-sorted Cells and Its Application to Freshly Isolated Murine Immune Cells*. Molecular and Cellular Proteomics, 2019, 18, 995a-1009.	3.8	69
65	The receptor TREML4 amplifies TLR7-mediated signaling during antiviral responses and autoimmunity. Nature Immunology, 2015, 16, 495-504.	14.5	67
66	Early cross-coronavirus reactive signatures of humoral immunity against COVID-19. Science Immunology, 2021, 6, eabj2901.	11.9	67
67	Somatic mutation as a mechanism of Wnt/ β -catenin pathway activation in CLL. Blood, 2014, 124, 1089-1098.	1.4	65
68	Neoantigens encoded in the cancer genome. Current Opinion in Immunology, 2016, 41, 98-103.	5.5	65
69	Plasma from patients with bacterial sepsis or severe COVID-19 induces suppressive myeloid cell production from hematopoietic progenitors in vitro. Science Translational Medicine, 2021, 13, .	12.4	64
70	Differentiation of exhausted CD8+ T cells after termination of chronic antigen stimulation stops short of achieving functional T cell memory. Nature Immunology, 2021, 22, 1030-1041.	14.5	63
71	Integrated urine proteomics and renal single-cell genomics identify an IFN- β response gradient in lupus nephritis. JCI Insight, 2020, 5, .	5.0	57
72	Alveolar, Endothelial, and Organ Injury Marker Dynamics in Severe COVID-19. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 507-519.	5.6	56

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73	Personal neoantigen cancer vaccines. <i>Onc Immunology</i> , 2014, 3, e29311.	4.6	55
74	Epitope spreading toward wild-type melanocyte-lineage antigens rescues suboptimal immune checkpoint blockade responses. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	54
75	ImmVar project: Insights and design considerations for future studies of "healthy" immune variation. <i>Seminars in Immunology</i> , 2015, 27, 51-57.	5.6	53
76	A cloning and expression system to probe T-cell receptor specificity and assess functional avidity to neoantigens. <i>Blood</i> , 2018, 132, 1911-1921.	1.4	44
77	Two distinct colonic CD14+ subsets characterized by single-cell RNA profiling in Crohn's disease. <i>Mucosal Immunology</i> , 2019, 12, 703-719.	6.0	44
78	Immune receptor repertoires in pediatric and adult acute myeloid leukemia. <i>Genome Medicine</i> , 2019, 11, 73.	8.2	38
79	Prioritizing disease and trait causal variants at the TNFAIP3 locus using functional and genomic features. <i>Nature Communications</i> , 2020, 11, 1237.	12.8	38
80	Urine Proteomics and Renal <scp>Single-Cell</scp> Transcriptomics Implicate Interleukin-16 in Lupus Nephritis. <i>Arthritis and Rheumatology</i> , 2022, 74, 829-839.	5.6	38
81	Optimized Liquid and Gas Phase Fractionation Increases HLA-Peptidome Coverage for Primary Cell and Tissue Samples. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100133.	3.8	32
82	An Integrative Framework Reveals Signaling-to-Transcription Events in Toll-like Receptor Signaling. <i>Cell Reports</i> , 2017, 19, 2853-2866.	6.4	26
83	Multiplexed enrichment and genomic profiling of peripheral blood cells reveal subset-specific immune signatures. <i>Science Advances</i> , 2019, 5, eaau9223.	10.3	25
84	Automated Flow Synthesis of Tumor Neoantigen Peptides for Personalized Immunotherapy. <i>Scientific Reports</i> , 2020, 10, 723.	3.3	21
85	Reprogramming NK cells and macrophages via combined antibody and cytokine therapy primes tumors for elimination by checkpoint blockade. <i>Cell Reports</i> , 2021, 37, 110021.	6.4	21
86	Personal Neoantigen Cancer Vaccines: A Road Not Fully Paved. <i>Cancer Immunology Research</i> , 2020, 8, 1465-1469.	3.4	20
87	Viral Load Kinetics of Severe Acute Respiratory Syndrome Coronavirus 2 in Hospitalized Individuals With Coronavirus Disease 2019. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofab153.	0.9	20
88	Challenges and recommendations for epigenomics in precision health. <i>Nature Biotechnology</i> , 2017, 35, 1128-1132.	17.5	19
89	MAUDE: inferring expression changes in sorting-based CRISPR screens. <i>Genome Biology</i> , 2020, 21, 134.	8.8	18
90	Accelerating Medicines Partnership: Organizational Structure and Preliminary Data From the Phase 1 Studies of Lupus Nephritis. <i>Arthritis Care and Research</i> , 2020, 72, 233-242.	3.4	17

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91	A unique subset of glycolytic tumour-propagating cells drives squamous cell carcinoma. Nature Metabolism, 2021, 3, 182-195.	11.9	17
92	Plasma P-selectin is an early marker of thromboembolism in COVID-19. American Journal of Hematology, 2021, 96, E468-E471.	4.1	17
93	How T cells spot tumour cells. Nature, 2017, 551, 444-446.	27.8	15
94	Prioritization of autoimmune disease-associated genetic variants that perturb regulatory element activity in T cells. Nature Genetics, 2022, 54, 603-612.	21.4	15
95	Targeting individual cells by barcode in pooled sequence libraries. Nucleic Acids Research, 2019, 47, e4-e4.	14.5	13
96	Harnessing the Potential of Multiomics Studies for Precision Medicine in Infectious Disease. Open Forum Infectious Diseases, 2021, 8, ofab483.	0.9	13
97	Transcriptomic Analysis and High-dimensional Phenotypic Mapping of Mononuclear Phagocytes in Mesenteric Lymph Nodes Reveal Differences Between Ulcerative Colitis and Crohn's Disease. Journal of Crohn's and Colitis, 2020, 14, 393-405.	1.3	12
98	The Kinetics of SARS-CoV-2 Antibody Development Is Associated with Clearance of RNAemia. MBio, 2022, 13, .	4.1	10
99	Systematic identification of genomic elements that regulate FCGR2A expression and harbor variants linked with autoimmune disease. Human Molecular Genetics, 2022, 31, 1946-1961.	2.9	7
100	Heavy Metal Enlightens Tumor Immunity. Cell, 2017, 169, 567-569.	28.9	6
101	Loss of the Nuclear Protein RTF2 Enhances Influenza Virus Replication. Journal of Virology, 2020, 94, .	3.4	5
102	Impact of autoimmune risk alleles on the immune system. Genome Medicine, 2015, 7, 57.	8.2	3
103	Abstract 2030: A single-cell spatially resolved map of colorectal cancer identifies novel spatial relationships between cancer cells and the microenvironment. Cancer Research, 2022, 82, 2030-2030.	0.9	3
104	204...The immune cell landscape in kidneys of lupus nephritis patients. , 2019, , .		2
105	Damaged DNA marching out of aging nucleus. Aging, 2019, 11, 8039-8040.	3.1	2
106	1830. Single-cell Transcriptional Profiling Reveals an Immune Cell State Signature of Bacterial Sepsis. Open Forum Infectious Diseases, 2019, 6, S42-S42.	0.9	1
107	Some antibodies can dampen antiviral defences in people with severe COVID. Nature, 2021, 591, 37-39.	27.8	1
108	Characterizing the tumor and immune landscape of melanoma patients treated with combined checkpoint blockade and MAPK targeted therapy.. Journal of Clinical Oncology, 2021, 39, 9522-9522.	1.6	1

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109	Editorial overview: Cancer immunology: genomics & biomarkers: Cancer immunity through the prism of genomics and proteomics. Current Opinion in Immunology, 2016, 41, ix-x.	5.5	0
110	ATIM-32. PERSONALIZED NEOANTIGEN-TARGETING VACCINE GENERATES ROBUST SYSTEMIC AND INTRATUMORAL T CELL RESPONSES IN GLIOBLASTOMA (GBM) PATIENTS. Neuro-Oncology, 2018, 20, vi8-vi8.	1.2	0
111	AB0167&...SINGLE CELL RNA EXPRESSION IN LUPUS NEPHRITIS COMPARING AFRICAN-AMERICAN AND CAUCASIAN PATIENTS IDENTIFIES DIFFERENTIAL EXPRESSION OF TYPE I INTERFERON PATHWAY. , 2019, , .		0
112	205&...Single cell RNA expression in lupus nephritis comparing african-american and caucasian patients identifies differential expression of type I interferon pathway. , 2019, , .		0
113	Increased T-cell receptor repertoire diversity to predict better overall survival in gastrointestinal malignancies.. Journal of Clinical Oncology, 2021, 39, 474-474.	1.6	0
114	Reversal of T Cell Exhaustion in Pre-Treatment Marrow T Cells Is Associated with Effective Graft-Versus-Leukemia Responses to Donor Lymphocyte Infusion. Blood, 2012, 120, 1903-1903.	1.4	0
115	Tumor Neoantigens Are Abundant Across Cancers. Blood, 2013, 122, 3265-3265.	1.4	0
116	Genetic Control of Immune Variation across the Human Population. FASEB Journal, 2015, 29, 369.2.	0.5	0
117	Identifying Cell Type-Specific Chemokine Correlates with Hierarchical Signal Extraction from Single-Cell Transcriptomes. , 2021, , .		0
118	Reply To: High Renin Levels in Severe COVID-19 are Indicative for a Hypo-Renin-Angiotensin-System State. American Journal of Respiratory and Critical Care Medicine, 2022, , .	5.6	0
119	Abstract 3610: In vivo CRISPR screens reveal the landscape of immune evasion pathways across cancer. Cancer Research, 2022, 82, 3610-3610.	0.9	0
120	Clinical characteristics and molecular features of non-small cell lung cancers (NSCLCs) following disease progression on immune checkpoint inhibitors (ICIs).. Journal of Clinical Oncology, 2022, 40, e21178-e21178.	1.6	0