

# Nir Hacoheh

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

30,594  
citations

21215

62  
h-index

27587

110  
g-index

144  
all docs

144  
docs citations

144  
times ranked

53685  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular and Genetic Properties of Tumors Associated with Local Immune Cytolytic Activity. <i>Cell</i> , 2015, 160, 48-61.	13.5	2,948
2	An immunogenic personal neoantigen vaccine for patients with melanoma. <i>Nature</i> , 2017, 547, 217-221.	13.7	2,112
3	Single-cell RNA-seq reveals new types of human blood dendritic cells, monocytes, and progenitors. <i>Science</i> , 2017, 356, .	6.0	1,846
4	CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. <i>Cell</i> , 2014, 159, 440-455.	13.5	1,566
5	B cells and tertiary lymphoid structures promote immunotherapy response. <i>Nature</i> , 2020, 577, 549-555.	13.7	1,421
6	Defining T Cell States Associated with Response to Checkpoint Immunotherapy in Melanoma. <i>Cell</i> , 2018, 175, 998-1013.e20.	13.5	1,260
7	Perturbation of m6A Writers Reveals Two Distinct Classes of mRNA Methylation at Internal and 5' Sites. <i>Cell Reports</i> , 2014, 8, 284-296.	2.9	972
8	Neoantigen vaccine generates intratumoral T cell responses in phase Ib glioblastoma trial. <i>Nature</i> , 2019, 565, 234-239.	13.7	956
9	Single-cell RNA-seq reveals dynamic paracrine control of cellular variation. <i>Nature</i> , 2014, 510, 363-369.	13.7	872
10	Meta- and Orthogonal Integration of Influenza Omics Data Defines a Role for UBR4 in Virus Budding. <i>Cell Host and Microbe</i> , 2015, 18, 723-735.	5.1	868
11	Landscape of X chromosome inactivation across human tissues. <i>Nature</i> , 2017, 550, 244-248.	13.7	764
12	Defining inflammatory cell states in rheumatoid arthritis joint synovial tissues by integrating single-cell transcriptomics and mass cytometry. <i>Nature Immunology</i> , 2019, 20, 928-942.	7.0	760
13	Resistance to checkpoint blockade therapy through inactivation of antigen presentation. <i>Nature Communications</i> , 2017, 8, 1136.	5.8	686
14	Mass Spectrometry Profiling of HLA-Associated Peptidomes in Mono-allelic Cells Enables More Accurate Epitope Prediction. <i>Immunity</i> , 2017, 46, 315-326.	6.6	596
15	A Physical and Regulatory Map of Host-Influenza Interactions Reveals Pathways in H1N1 Infection. <i>Cell</i> , 2009, 139, 1255-1267.	13.5	593
16	COVID-19 tissue atlases reveal SARS-CoV-2 pathology and cellular targets. <i>Nature</i> , 2021, 595, 107-113.	13.7	537
17	Systematic comparison of single-cell and single-nucleus RNA-sequencing methods. <i>Nature Biotechnology</i> , 2020, 38, 737-746.	9.4	527
18	Viral epitope profiling of COVID-19 patients reveals cross-reactivity and correlates of severity. <i>Science</i> , 2020, 370, .	6.0	511

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19	The immune cell landscape in kidneys of patients with lupus nephritis. <i>Nature Immunology</i> , 2019, 20, 902-914.	7.0	501
20	Dynamic profiling of the protein life cycle in response to pathogens. <i>Science</i> , 2015, 347, 1259038.	6.0	408
21	Common Genetic Variants Modulate Pathogen-Sensing Responses in Human Dendritic Cells. <i>Science</i> , 2014, 343, 1246980.	6.0	391
22	A Genome-wide CRISPR Screen in Primary Immune Cells to Dissect Regulatory Networks. <i>Cell</i> , 2015, 162, 675-686.	13.5	383
23	Lineage Tracing in Humans Enabled by Mitochondrial Mutations and Single-Cell Genomics. <i>Cell</i> , 2019, 176, 1325-1339.e22.	13.5	345
24	Genome-wide enhancer maps link risk variants to disease genes. <i>Nature</i> , 2021, 593, 238-243.	13.7	332
25	A large peptidome dataset improves HLA class I epitope prediction across most of the human population. <i>Nature Biotechnology</i> , 2020, 38, 199-209.	9.4	324
26	Locally Disordered Methylation Forms the Basis of Intratumor Methylome Variation in Chronic Lymphocytic Leukemia. <i>Cancer Cell</i> , 2014, 26, 813-825.	7.7	323
27	A genome-wide CRISPR screen identifies a restricted set of HIV host dependency factors. <i>Nature Genetics</i> , 2017, 49, 193-203.	9.4	290
28	Landscape of tumor-infiltrating T cell repertoire of human cancers. <i>Nature Genetics</i> , 2016, 48, 725-732.	9.4	288
29	Key Parameters of Tumor Epitope Immunogenicity Revealed Through a Consortium Approach Improve Neoantigen Prediction. <i>Cell</i> , 2020, 183, 818-834.e13.	13.5	287
30	Systematic identification of personal tumor-specific neoantigens in chronic lymphocytic leukemia. <i>Blood</i> , 2014, 124, 453-462.	0.6	286
31	Aryl Hydrocarbon Receptor Controls Monocyte Differentiation into Dendritic Cells versus Macrophages. <i>Immunity</i> , 2017, 47, 582-596.e6.	6.6	282
32	An immune-cell signature of bacterial sepsis. <i>Nature Medicine</i> , 2020, 26, 333-340.	15.2	261
33	Spatially organized multicellular immune hubs in human colorectal cancer. <i>Cell</i> , 2021, 184, 4734-4752.e20.	13.5	256
34	Personal neoantigen vaccines induce persistent memory T cell responses and epitope spreading in patients with melanoma. <i>Nature Medicine</i> , 2021, 27, 515-525.	15.2	248
35	Phenotype, specificity and avidity of antitumour CD8+ T cells in melanoma. <i>Nature</i> , 2021, 596, 119-125.	13.7	239
36	Intersection of population variation and autoimmunity genetics in human T cell activation. <i>Science</i> , 2014, 345, 1254665.	6.0	218

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37	PD-1 blockade in subprimed CD8 cells induces dysfunctional PD-1+CD38hi cells and anti-PD-1 resistance. <i>Nature Immunology</i> , 2019, 20, 1231-1243.	7.0	217
38	Temporal and spatial heterogeneity of host response to SARS-CoV-2 pulmonary infection. <i>Nature Communications</i> , 2020, 11, 6319.	5.8	203
39	A Regression-Based Analysis of Ribosome-Profiling Data Reveals a Conserved Complexity to Mammalian Translation. <i>Molecular Cell</i> , 2015, 60, 816-827.	4.5	200
40	HLA-Binding Properties of Tumor Neopeptides in Humans. <i>Cancer Immunology Research</i> , 2014, 2, 522-529.	1.6	194
41	Longitudinal proteomic analysis of severe COVID-19 reveals survival-associated signatures, tissue-specific cell death, and cell-cell interactions. <i>Cell Reports Medicine</i> , 2021, 2, 100287.	3.3	183
42	Dnase2a Deficiency Uncovers Lysosomal Clearance of Damaged Nuclear DNA via Autophagy. <i>Cell Reports</i> , 2014, 9, 180-192.	2.9	182
43	Getting Personal with Neoantigen-Based Therapeutic Cancer Vaccines. <i>Cancer Immunology Research</i> , 2013, 1, 11-15.	1.6	167
44	Massively parallel single-cell mitochondrial DNA genotyping and chromatin profiling. <i>Nature Biotechnology</i> , 2021, 39, 451-461.	9.4	150
45	An eQTL Landscape of Kidney Tissue in Human Nephrotic Syndrome. <i>American Journal of Human Genetics</i> , 2018, 103, 232-244.	2.6	147
46	Genome-wide CRISPR screen identifies host dependency factors for influenza A virus infection. <i>Nature Communications</i> , 2020, 11, 164.	5.8	136
47	Cumulus provides cloud-based data analysis for large-scale single-cell and single-nucleus RNA-seq. <i>Nature Methods</i> , 2020, 17, 793-798.	9.0	134
48	Unannotated proteins expand the MHC-I-restricted immunopeptidome in cancer. <i>Nature Biotechnology</i> , 2022, 40, 209-217.	9.4	127
49	Large-Scale Topological Changes Restrain Malignant Progression in Colorectal Cancer. <i>Cell</i> , 2020, 182, 1474-1489.e23.	13.5	126
50	Differential pre-malignant programs and microenvironment chart distinct paths to malignancy in human colorectal polyps. <i>Cell</i> , 2021, 184, 6262-6280.e26.	13.5	125
51	Landscape of B cell immunity and related immune evasion in human cancers. <i>Nature Genetics</i> , 2019, 51, 560-567.	9.4	115
52	Radiation therapy enhances immunotherapy response in microsatellite stable colorectal and pancreatic adenocarcinoma in a phase II trial. <i>Nature Cancer</i> , 2021, 2, 1124-1135.	5.7	112
53	Single cell transcriptomics identifies focal segmental glomerulosclerosis remission endothelial biomarker. <i>JCI Insight</i> , 2020, 5, .	2.3	108
54	Profiling SARS-CoV-2 HLA-I peptidome reveals T cell epitopes from out-of-frame ORFs. <i>Cell</i> , 2021, 184, 3962-3980.e17.	13.5	98

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55	SARS-CoV-2 viremia is associated with distinct proteomic pathways and predicts COVID-19 outcomes. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	94
56	Methods for high-dimensional analysis of cells dissociated from cryopreserved synovial tissue. <i>Arthritis Research and Therapy</i> , 2018, 20, 139.	1.6	93
57	A secreted PD-L1 splice variant that covalently dimerizes and mediates immunosuppression. <i>Cancer Immunology, Immunotherapy</i> , 2019, 68, 421-432.	2.0	93
58	The Chaperone UNC93B1 Regulates Toll-like Receptor Stability Independently of Endosomal TLR Transport. <i>Immunity</i> , 2018, 48, 911-922.e7.	6.6	92
59	Extranuclear DNA accumulates in aged cells and contributes to senescence and inflammation. <i>Aging Cell</i> , 2019, 18, e12901.	3.0	84
60	Functional screen of MSI2 interactors identifies an essential role for SYNCRIP in myeloid leukemia stem cells. <i>Nature Genetics</i> , 2017, 49, 866-875.	9.4	75
61	Positional specificity of different transcription factor classes within enhancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7222-E7230.	3.3	72
62	Systems Immunology: Learning the Rules of the Immune System. <i>Annual Review of Immunology</i> , 2018, 36, 813-842.	9.5	70
63	Landscape of helper and regulatory antitumour CD4+ T cells in melanoma. <i>Nature</i> , 2022, 605, 532-538.	13.7	70
64	Streamlined Protocol for Deep Proteomic Profiling of FAC-sorted Cells and Its Application to Freshly Isolated Murine Immune Cells*. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 995a-1009.	2.5	69
65	The receptor TREML4 amplifies TLR7-mediated signaling during antiviral responses and autoimmunity. <i>Nature Immunology</i> , 2015, 16, 495-504.	7.0	67
66	Early cross-coronavirus reactive signatures of humoral immunity against COVID-19. <i>Science Immunology</i> , 2021, 6, eabj2901.	5.6	67
67	Somatic mutation as a mechanism of Wnt/ $\beta$ -catenin pathway activation in CLL. <i>Blood</i> , 2014, 124, 1089-1098.	0.6	65
68	Neoantigens encoded in the cancer genome. <i>Current Opinion in Immunology</i> , 2016, 41, 98-103.	2.4	65
69	Plasma from patients with bacterial sepsis or severe COVID-19 induces suppressive myeloid cell production from hematopoietic progenitors in vitro. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	64
70	Differentiation of exhausted CD8+ T cells after termination of chronic antigen stimulation stops short of achieving functional T cell memory. <i>Nature Immunology</i> , 2021, 22, 1030-1041.	7.0	63
71	Integrated urine proteomics and renal single-cell genomics identify an IFN- $\beta$ response gradient in lupus nephritis. <i>JCI Insight</i> , 2020, 5, .	2.3	57
72	Alveolar, Endothelial, and Organ Injury Marker Dynamics in Severe COVID-19. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 507-519.	2.5	56

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73	Personal neoantigen cancer vaccines. <i>OncImmunology</i> , 2014, 3, e29311.	2.1	55
74	Epitope spreading toward wild-type melanocyte-lineage antigens rescues suboptimal immune checkpoint blockade responses. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	54
75	ImmVar project: Insights and design considerations for future studies of "healthy" immune variation. <i>Seminars in Immunology</i> , 2015, 27, 51-57.	2.7	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.	0.6	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.	2.7	44
78	Immune receptor repertoires in pediatric and adult acute myeloid leukemia. <i>Genome Medicine</i> , 2019, 11, 73.	3.6	38
79	Prioritizing disease and trait causal variants at the TNFAIP3 locus using functional and genomic features. <i>Nature Communications</i> , 2020, 11, 1237.	5.8	38
80	Urine Proteomics and Renal <scp>Singleâ€Cell</scp> Transcriptomics Implicate Interleukinâ€16 in Lupus Nephritis. <i>Arthritis and Rheumatology</i> , 2022, 74, 829-839.	2.9	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.	2.5	32
82	An Integrative Framework Reveals Signaling-to-Transcription Events in Toll-like Receptor Signaling. <i>Cell Reports</i> , 2017, 19, 2853-2866.	2.9	26
83	Multiplexed enrichment and genomic profiling of peripheral blood cells reveal subset-specific immune signatures. <i>Science Advances</i> , 2019, 5, eaau9223.	4.7	25
84	Automated Flow Synthesis of Tumor Neoantigen Peptides for Personalized Immunotherapy. <i>Scientific Reports</i> , 2020, 10, 723.	1.6	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.	2.9	21
86	Personal Neoantigen Cancer Vaccines: A Road Not Fully Paved. <i>Cancer Immunology Research</i> , 2020, 8, 1465-1469.	1.6	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.	0.4	20
88	Challenges and recommendations for epigenomics in precision health. <i>Nature Biotechnology</i> , 2017, 35, 1128-1132.	9.4	19
89	MAUDE: inferring expression changes in sorting-based CRISPR screens. <i>Genome Biology</i> , 2020, 21, 134.	3.8	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.	1.5	17

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91	A unique subset of glycolytic tumour-propagating cells drives squamous cell carcinoma. <i>Nature Metabolism</i> , 2021, 3, 182-195.	5.1	17
92	Plasma P-selectin is an early marker of thromboembolism in COVID-19. <i>American Journal of Hematology</i> , 2021, 96, E468-E471.	2.0	17
93	How T cells spot tumour cells. <i>Nature</i> , 2017, 551, 444-446.	13.7	15
94	Prioritization of autoimmune disease-associated genetic variants that perturb regulatory element activity in T cells. <i>Nature Genetics</i> , 2022, 54, 603-612.	9.4	15
95	Targeting individual cells by barcode in pooled sequence libraries. <i>Nucleic Acids Research</i> , 2019, 47, e4-e4.	6.5	13
96	Harnessing the Potential of Multiomics Studies for Precision Medicine in Infectious Disease. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofab483.	0.4	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. <i>Journal of Crohn's and Colitis</i> , 2020, 14, 393-405.	0.6	12
98	The Kinetics of SARS-CoV-2 Antibody Development Is Associated with Clearance of RNAemia. <i>MBio</i> , 2022, 13, .	1.8	10
99	Systematic identification of genomic elements that regulate FCGR2A expression and harbor variants linked with autoimmune disease. <i>Human Molecular Genetics</i> , 2022, 31, 1946-1961.	1.4	7
100	Heavy Metal Enlightens Tumor Immunity. <i>Cell</i> , 2017, 169, 567-569.	13.5	6
101	Loss of the Nuclear Protein RTF2 Enhances Influenza Virus Replication. <i>Journal of Virology</i> , 2020, 94, .	1.5	5
102	Impact of autoimmune risk alleles on the immune system. <i>Genome Medicine</i> , 2015, 7, 57.	3.6	3
103	Abstract 2030: A single-cell spatially resolved map of colorectal cancer identifies novel spatial relationships between cancer cells and the microenvironment. <i>Cancer Research</i> , 2022, 82, 2030-2030.	0.4	3
104	204...The immune cell landscape in kidneys of lupus nephritis patients. , 2019, , .		2
105	Damaged DNA marching out of aging nucleus. <i>Aging</i> , 2019, 11, 8039-8040.	1.4	2
106	1830. Single-cell Transcriptional Profiling Reveals an Immune Cell State Signature of Bacterial Sepsis. <i>Open Forum Infectious Diseases</i> , 2019, 6, S42-S42.	0.4	1
107	Some antibodies can dampen antiviral defences in people with severe COVID. <i>Nature</i> , 2021, 591, 37-39.	13.7	1
108	Characterizing the tumor and immune landscape of melanoma patients treated with combined checkpoint blockade and MAPK targeted therapy.. <i>Journal of Clinical Oncology</i> , 2021, 39, 9522-9522.	0.8	1

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109	Editorial overview: Cancer immunology: genomics & biomarkers: Cancer immunity through the prism of genomics and proteomics. <i>Current Opinion in Immunology</i> , 2016, 41, ix-x.	2.4	0
110	ATIM-32. PERSONALIZED NEOANTIGEN-TARGETING VACCINE GENERATES ROBUST SYSTEMIC AND INTRATUMORAL T CELL RESPONSES IN GLIOBLASTOMA (GBM) PATIENTS. <i>Neuro-Oncology</i> , 2018, 20, vi8-vi8.	0.6	0
111	AB0167â€...SINGLE CELL RNA EXPRESSION IN LUPUS NEPHRITIS COMPARING AFRICAN-AMERICAN AND CAUCASIAN PATIENTS IDENTIFIES DIFFERENTIAL EXPRESSION OF TYPE I INTERFERON PATHWAY. , 2019, , .		0
112	205â€...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.. <i>Journal of Clinical Oncology</i> , 2021, 39, 474-474.	0.8	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. <i>Blood</i> , 2012, 120, 1903-1903.	0.6	0
115	Tumor Neoantigens Are Abundant Across Cancers. <i>Blood</i> , 2013, 122, 3265-3265.	0.6	0
116	Genetic Control of Immune Variation across the Human Population. <i>FASEB Journal</i> , 2015, 29, 369.2.	0.2	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. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, , .	2.5	0
119	Abstract 3610: In vivo CRISPR screens reveal the landscape of immune evasion pathways across cancer. <i>Cancer Research</i> , 2022, 82, 3610-3610.	0.4	0
120	Clinical characteristics and molecular features of non-small cell lung cancers (NSCLCs) following disease progression on immune checkpoint inhibitors (ICIs).. <i>Journal of Clinical Oncology</i> , 2022, 40, e21178-e21178.	0.8	0