

# Nir Hacoheh

## List of Publications by Citations

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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.

119  
papers

17,593  
citations

53  
h-index

132  
g-index

144  
ext. papers

25,367  
ext. citations

23.4  
avg, IF

6.35  
L-index

#	Paper	IF	Citations
119	Molecular and genetic properties of tumors associated with local immune cytolytic activity. <i>Cell</i> , <b>2015</b> , 160, 48-61	56.2	1834
118	An immunogenic personal neoantigen vaccine for patients with melanoma. <i>Nature</i> , <b>2017</b> , 547, 217-221	50.4	1375
117	Single-cell RNA-seq reveals new types of human blood dendritic cells, monocytes, and progenitors. <i>Science</i> , <b>2017</b> , 356,	33.3	1176
116	CRISPR-Cas9 knockin mice for genome editing and cancer modeling. <i>Cell</i> , <b>2014</b> , 159, 440-55	56.2	1089
115	Perturbation of m6A writers reveals two distinct classes of mRNA methylation at internal and 5S sites. <i>Cell Reports</i> , <b>2014</b> , 8, 284-96	10.6	700
114	Single-cell RNA-seq reveals dynamic paracrine control of cellular variation. <i>Nature</i> , <b>2014</b> , 510, 363-9	50.4	661
113	B cells and tertiary lymphoid structures promote immunotherapy response. <i>Nature</i> , <b>2020</b> , 577, 549-555	50.4	654
112	Meta- and Orthogonal Integration of Influenza "OMICs" Data Defines a Role for UBR4 in Virus Budding. <i>Cell Host and Microbe</i> , <b>2015</b> , 18, 723-35	23.4	647
111	Defining T Cell States Associated with Response to Checkpoint Immunotherapy in Melanoma. <i>Cell</i> , <b>2018</b> , 175, 998-1013.e20	56.2	631
110	Neoantigen vaccine generates intratumoral T cell responses in phase Ib glioblastoma trial. <i>Nature</i> , <b>2019</b> , 565, 234-239	50.4	569
109	A physical and regulatory map of host-influenza interactions reveals pathways in H1N1 infection. <i>Cell</i> , <b>2009</b> , 139, 1255-67	56.2	513
108	Landscape of X chromosome inactivation across human tissues. <i>Nature</i> , <b>2017</b> , 550, 244-248	50.4	417
107	Resistance to checkpoint blockade therapy through inactivation of antigen presentation. <i>Nature Communications</i> , <b>2017</b> , 8, 1136	17.4	409
106	Defining inflammatory cell states in rheumatoid arthritis joint synovial tissues by integrating single-cell transcriptomics and mass cytometry. <i>Nature Immunology</i> , <b>2019</b> , 20, 928-942	19.1	369
105	Mass Spectrometry Profiling of HLA-Associated Peptidomes in Mono-allelic Cells Enables More Accurate Epitope Prediction. <i>Immunity</i> , <b>2017</b> , 46, 315-326	32.3	348
104	Common genetic variants modulate pathogen-sensing responses in human dendritic cells. <i>Science</i> , <b>2014</b> , 343, 1246980	33.3	309
103	Viral epitope profiling of COVID-19 patients reveals cross-reactivity and correlates of severity. <i>Science</i> , <b>2020</b> , 370,	33.3	289

102	A Genome-wide CRISPR Screen in Primary Immune Cells to Dissect Regulatory Networks. <i>Cell</i> , <b>2015</b> , 162, 675-86	56.2	288
101	Immunogenetics. Dynamic profiling of the protein life cycle in response to pathogens. <i>Science</i> , <b>2015</b> , 347, 1259038	33.3	284
100	The immune cell landscape in kidneys of patients with lupus nephritis. <i>Nature Immunology</i> , <b>2019</b> , 20, 902-914	19.1	254
99	Systematic identification of personal tumor-specific neoantigens in chronic lymphocytic leukemia. <i>Blood</i> , <b>2014</b> , 124, 453-62	2.2	249
98	Locally disordered methylation forms the basis of intratumor methylome variation in chronic lymphocytic leukemia. <i>Cancer Cell</i> , <b>2014</b> , 26, 813-825	24.3	216
97	Systematic comparison of single-cell and single-nucleus RNA-sequencing methods. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 737-746	44.5	212
96	A genome-wide CRISPR screen identifies a restricted set of HIV host dependency factors. <i>Nature Genetics</i> , <b>2017</b> , 49, 193-203	36.3	197
95	Landscape of tumor-infiltrating T cell repertoire of human cancers. <i>Nature Genetics</i> , <b>2016</b> , 48, 725-32	36.3	193
94	Intersection of population variation and autoimmunity genetics in human T cell activation. <i>Science</i> , <b>2014</b> , 345, 1254665	33.3	175
93	Lineage Tracing in Humans Enabled by Mitochondrial Mutations and Single-Cell Genomics. <i>Cell</i> , <b>2019</b> , 176, 1325-1339.e22	56.2	174
92	Aryl Hydrocarbon Receptor Controls Monocyte Differentiation into Dendritic Cells versus Macrophages. <i>Immunity</i> , <b>2017</b> , 47, 582-596.e6	32.3	160
91	Dnase2a deficiency uncovers lysosomal clearance of damaged nuclear DNA via autophagy. <i>Cell Reports</i> , <b>2014</b> , 9, 180-192	10.6	145
90	A large peptidome dataset improves HLA class I epitope prediction across most of the human population. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 199-209	44.5	141
89	HLA-binding properties of tumor neoepitopes in humans. <i>Cancer Immunology Research</i> , <b>2014</b> , 2, 522-9	12.5	138
88	A Regression-Based Analysis of Ribosome-Profiling Data Reveals a Conserved Complexity to Mammalian Translation. <i>Molecular Cell</i> , <b>2015</b> , 60, 816-827	17.6	133
87	Getting personal with neoantigen-based therapeutic cancer vaccines. <i>Cancer Immunology Research</i> , <b>2013</b> , 1, 11-5	12.5	133
86	PD-1 blockade in subprimed CD8 cells induces dysfunctional PD-1CD38 cells and anti-PD-1 resistance. <i>Nature Immunology</i> , <b>2019</b> , 20, 1231-1243	19.1	132
85	COVID-19 tissue atlases reveal SARS-CoV-2 pathology and cellular targets. <i>Nature</i> , <b>2021</b> , 595, 107-113	50.4	124

84	An immune-cell signature of bacterial sepsis. <i>Nature Medicine</i> , <b>2020</b> , 26, 333-340	50.5	110
83	Key Parameters of Tumor Epitope Immunogenicity Revealed Through a Consortium Approach Improve Neoantigen Prediction. <i>Cell</i> , <b>2020</b> , 183, 818-834.e13	56.2	105
82	Temporal and spatial heterogeneity of host response to SARS-CoV-2 pulmonary infection. <i>Nature Communications</i> , <b>2020</b> , 11, 6319	17.4	84
81	An eQTL Landscape of Kidney Tissue in Human Nephrotic Syndrome. <i>American Journal of Human Genetics</i> , <b>2018</b> , 103, 232-244	11	78
80	ATIM-32. PERSONALIZED NEOANTIGEN-TARGETING VACCINE GENERATES ROBUST SYSTEMIC AND INTRATUMORAL T CELL RESPONSES IN GLIOBLASTOMA (GBM) PATIENTS. <i>Neuro-Oncology</i> , <b>2018</b> , 20, vi8-vi8	1	78
79	Personal neoantigen vaccines induce persistent memory T cell responses and epitope spreading in patients with melanoma. <i>Nature Medicine</i> , <b>2021</b> , 27, 515-525	50.5	69
78	Methods for high-dimensional analysis of cells dissociated from cryopreserved synovial tissue. <i>Arthritis Research and Therapy</i> , <b>2018</b> , 20, 139	5.7	60
77	Genome-wide CRISPR screen identifies host dependency factors for influenza A virus infection. <i>Nature Communications</i> , <b>2020</b> , 11, 164	17.4	59
76	Massively parallel single-cell mitochondrial DNA genotyping and chromatin profiling. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 451-461	44.5	59
75	A secreted PD-L1 splice variant that covalently dimerizes and mediates immunosuppression. <i>Cancer Immunology, Immunotherapy</i> , <b>2019</b> , 68, 421-432	7.4	57
74	Landscape of B cell immunity and related immune evasion in human cancers. <i>Nature Genetics</i> , <b>2019</b> , 51, 560-567	36.3	56
73	Somatic mutation as a mechanism of Wnt/ $\beta$ -catenin pathway activation in CLL. <i>Blood</i> , <b>2014</b> , 124, 1089-98	2.2	56
72	The Chaperone UNC93B1 Regulates Toll-like Receptor Stability Independently of Endosomal TLR Transport. <i>Immunity</i> , <b>2018</b> , 48, 911-922.e7	32.3	56
71	Neoantigens encoded in the cancer genome. <i>Current Opinion in Immunology</i> , <b>2016</b> , 41, 98-103	7.8	54
70	Functional screen of MSI2 interactors identifies an essential role for SYNCRIP in myeloid leukemia stem cells. <i>Nature Genetics</i> , <b>2017</b> , 49, 866-875	36.3	53
69	Extranuclear DNA accumulates in aged cells and contributes to senescence and inflammation. <i>Aging Cell</i> , <b>2019</b> , 18, e12901	9.9	53
68	Phenotype, specificity and avidity of antitumour CD8 T cells in melanoma. <i>Nature</i> , <b>2021</b> , 596, 119-125	50.4	53
67	Single cell transcriptomics identifies focal segmental glomerulosclerosis remission endothelial biomarker. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	52

66	Longitudinal proteomic analysis of severe COVID-19 reveals survival-associated signatures, tissue-specific cell death, and cell-cell interactions. <i>Cell Reports Medicine</i> , <b>2021</b> , 2, 100287	18	51
65	Personal neoantigen cancer vaccines: The momentum builds. <i>OncImmunity</i> , <b>2014</b> , 3, e29311	7.2	47
64	Systems Immunology: Learning the Rules of the Immune System. <i>Annual Review of Immunology</i> , <b>2018</b> , 36, 813-842	34.7	46
63	The receptor TREML4 amplifies TLR7-mediated signaling during antiviral responses and autoimmunity. <i>Nature Immunology</i> , <b>2015</b> , 16, 495-504	19.1	45
62	Genome-wide enhancer maps link risk variants to disease genes. <i>Nature</i> , <b>2021</b> , 593, 238-243	50.4	45
61	Cumulus provides cloud-based data analysis for large-scale single-cell and single-nucleus RNA-seq. <i>Nature Methods</i> , <b>2020</b> , 17, 793-798	21.6	44
60	Large-Scale Topological Changes Restrain Malignant Progression in Colorectal Cancer. <i>Cell</i> , <b>2020</b> , 182, 1474-1489.e23	56.2	41
59	ImmVar project: Insights and design considerations for future studies of "healthy" immune variation. <i>Seminars in Immunology</i> , <b>2015</b> , 27, 51-7	10.7	39
58	Positional specificity of different transcription factor classes within enhancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E7222-E7230	11.5	36
57	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> , <b>2019</b> , 18, 995-1009	7.6	35
56	A cloning and expression system to probe T-cell receptor specificity and assess functional avidity to neoantigens. <i>Blood</i> , <b>2018</b> , 132, 1911-1921	2.2	31
55	Two distinct colonic CD14 subsets characterized by single-cell RNA profiling in Crohn's disease. <i>Mucosal Immunology</i> , <b>2019</b> , 12, 703-719	9.2	28
54	SARS-CoV-2 viremia is associated with distinct proteomic pathways and predicts COVID-19 outcomes. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	27
53	Profiling SARS-CoV-2 HLA-I peptidome reveals T cell epitopes from out-of-frame ORFs. <i>Cell</i> , <b>2021</b> , 184, 3962-3980.e17	56.2	26
52	Integrated urine proteomics and renal single-cell genomics identify an IFN- $\gamma$ response gradient in lupus nephritis. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	23
51	Epitope spreading toward wild-type melanocyte-lineage antigens rescues suboptimal immune checkpoint blockade responses. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	22
50	Early cross-coronavirus reactive signatures of humoral immunity against COVID-19. <i>Science Immunology</i> , <b>2021</b> , 6, eabj2901	28	22
49	Spatially organized multicellular immune hubs in human colorectal cancer. <i>Cell</i> , <b>2021</b> , 184, 4734-4752.e296.2	296.2	22

48	Multiplexed enrichment and genomic profiling of peripheral blood cells reveal subset-specific immune signatures. <i>Science Advances</i> , <b>2019</b> , 5, eaau9223	14.3	18
47	Prioritizing disease and trait causal variants at the TNFAIP3 locus using functional and genomic features. <i>Nature Communications</i> , <b>2020</b> , 11, 1237	17.4	18
46	An Integrative Framework Reveals Signaling-to-Transcription Events in Toll-like Receptor Signaling. <i>Cell Reports</i> , <b>2017</b> , 19, 2853-2866	10.6	17
45	Temporal and Spatial Heterogeneity of Host Response to SARS-CoV-2 Pulmonary Infection <b>2020</b> ,		17
44	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> , <b>2021</b> , 13,	17.5	17
43	Immune receptor repertoires in pediatric and adult acute myeloid leukemia. <i>Genome Medicine</i> , <b>2019</b> , 11, 73	14.4	17
42	Challenges and recommendations for epigenomics in precision health. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 1128-1132	44.5	16
41	Thousands of novel unannotated proteins expand the MHC I immunopeptidome in cancer		15
40	A single-cell and spatial atlas of autopsy tissues reveals pathology and cellular targets of SARS-CoV-2 <b>2021</b> ,		15
39	Automated Flow Synthesis of Tumor Neoantigen Peptides for Personalized Immunotherapy. <i>Scientific Reports</i> , <b>2020</b> , 10, 723	4.9	13
38	Unannotated proteins expand the MHC-I-restricted immunopeptidome in cancer. <i>Nature Biotechnology</i> , <b>2021</b> ,	44.5	13
37	How T cells spot tumour cells. <i>Nature</i> , <b>2017</b> , 551, 444-446	50.4	11
36	A protocol for single-cell transcriptomics from cryopreserved renal tissue and urine for the Accelerating Medicine Partnership (AMP) RA/SLE network		11
35	Differential pre-malignant programs and microenvironment chart distinct paths to malignancy in human colorectal polyps.. <i>Cell</i> , <b>2021</b> , 184, 6262-6280.e26	56.2	10
34	Personal Neoantigen Cancer Vaccines: A Road Not Fully Paved. <i>Cancer Immunology Research</i> , <b>2020</b> , 8, 1465-1469	12.5	10
33	Targeting individual cells by barcode in pooled sequence libraries. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, e4	20.1	10
32	Radiation therapy enhances immunotherapy response in microsatellite stable colorectal and pancreatic adenocarcinoma in a phase II trial.. <i>Nature Cancer</i> , <b>2021</b> , 2, 1124-1135	15.4	9
31	SARS-CoV-2 infected cells present HLA-I peptides from canonical and out-of-frame ORFs <b>2020</b> ,		9

30	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 Crohns and Colitis</i> , <b>2020</b> , 14, 393-405	1.5	9
29	Differentiation of exhausted CD8 T cells after termination of chronic antigen stimulation stops short of achieving functional T cell memory. <i>Nature Immunology</i> , <b>2021</b> , 22, 1030-1041	19.1	9
28	Induction of a regulatory myeloid program in bacterial sepsis and severe COVID-19 <b>2020</b> ,		8
27	Accelerating Medicines Partnership: Organizational Structure and Preliminary Data From the Phase 1 Studies of Lupus Nephritis. <i>Arthritis Care and Research</i> , <b>2020</b> , 72, 233-242	4.7	6
26	Vaccine serologic responses among transplant patients associate with COVID-19 infection and T peripheral helper cells <b>2021</b> ,		6
25	Alveolar, Endothelial, and Organ Injury Marker Dynamics in Severe COVID-19. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2021</b> ,	10.2	5
24	Longitudinal characterization of circulating neutrophils uncovers distinct phenotypes associated with disease severity in hospitalized COVID-19 patients <b>2021</b> ,		5
23	Viral Load Kinetics of Severe Acute Respiratory Syndrome Coronavirus 2 in Hospitalized Individuals With Coronavirus Disease 2019. <i>Open Forum Infectious Diseases</i> , <b>2021</b> , 8, ofab153	1	5
22	A unique subset of glycolytic tumour-propagating cells drives squamous cell carcinoma. <i>Nature Metabolism</i> , <b>2021</b> , 3, 182-195	14.6	5
21	Heavy Metal Enlightens Tumor Immunity. <i>Cell</i> , <b>2017</b> , 169, 567-569	56.2	4
20	MAUDE: inferring expression changes in sorting-based CRISPR screens. <i>Genome Biology</i> , <b>2020</b> , 21, 134	18.3	4
19	Plasma P-selectin is an early marker of thromboembolism in COVID-19. <i>American Journal of Hematology</i> , <b>2021</b> , 96, E468-E471	7.1	4
18	Impact of autoimmune risk alleles on the immune system. <i>Genome Medicine</i> , <b>2015</b> , 7, 57	14.4	3
17	Defining Inflammatory Cell States in Rheumatoid Arthritis Joint Synovial Tissues by Integrating Single-cell Transcriptomics and Mass Cytometry		3
16	Reprogramming NK cells and macrophages via combined antibody and cytokine therapy primes tumors for elimination by checkpoint blockade. <i>Cell Reports</i> , <b>2021</b> , 37, 110021	10.6	2
15	The immune cell landscape in kidneys of lupus nephritis patients		2
14	Landscape of helper and regulatory antitumour CD4 T cells in melanoma.. <i>Nature</i> , <b>2022</b> , 605, 532-538	50.4	2
13	Urine Proteomics and Renal Single Cell Transcriptomics Implicate IL-16 in Lupus Nephritis. <i>Arthritis and Rheumatology</i> , <b>2021</b> ,	9.5	1

12	An efficient lentiviral CRISPRi approach to silence genes in primary human monocytes		1
11	Targeting individual cells by barcode in pooled sequence libraries		1
10	Loss of the Nuclear Protein RTF2 Enhances Influenza Virus Replication. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	1
9	Plasma P-selectin is an early marker of thromboembolism in COVID-19 <b>2021</b> ,		1
8	1830. Single-cell Transcriptional Profiling Reveals an Immune Cell State Signature of Bacterial Sepsis. <i>Open Forum Infectious Diseases</i> , <b>2019</b> , 6, S42-S42	1	0
7	Optimized Liquid and Gas Phase Fractionation Increases HLA-Peptidome Coverage for Primary Cell and Tissue Samples. <i>Molecular and Cellular Proteomics</i> , <b>2021</b> , 20, 100133	7.6	0
6	Harnessing the Potential of Multiomics Studies for Precision Medicine in Infectious Disease. <i>Open Forum Infectious Diseases</i> , <b>2021</b> , 8, ofab483	1	0
5	Genetic Control of Immune Variation across the Human Population. <i>FASEB Journal</i> , <b>2015</b> , 29, 369.2	0.9	
4	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> , <b>2012</b> , 120, 1903-1903	2.2	
3	Tumor Neoantigens Are Abundant Across Cancers. <i>Blood</i> , <b>2013</b> , 122, 3265-3265	2.2	
2	Characterizing the tumor and immune landscape of melanoma patients treated with combined checkpoint blockade and MAPK targeted therapy.. <i>Journal of Clinical Oncology</i> , <b>2021</b> , 39, 9522-9522	2.2	
1	Increased T-cell receptor repertoire diversity to predict better overall survival in gastrointestinal malignancies.. <i>Journal of Clinical Oncology</i> , <b>2021</b> , 39, 474-474	2.2	