

# Sol Efroni

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

3,371  
citations

186265

28  
h-index

155660

55  
g-index

85  
all docs

85  
docs citations

85  
times ranked

6268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Transcription in Pluripotent Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2008, 2, 437-447.	11.1	603
2	IL-27 acts on DCs to suppress the T cell response and autoimmunity by inducing expression of the immunoregulatory molecule CD39. <i>Nature Immunology</i> , 2013, 14, 1054-1063.	14.5	294
3	Repê€Seq: uncovering the immunological repertoire through nextâ€generation sequencing. <i>Immunology</i> , 2012, 135, 183-191.	4.4	252
4	The linker histone H1.0 generates epigenetic and functional intratumor heterogeneity. <i>Science</i> , 2016, 353, .	12.6	147
5	Genetic variations at loci involved in the immune response are risk factors for hepatocellular carcinoma. <i>Hepatology</i> , 2010, 52, 2034-2043.	7.3	124
6	Toward Rigorous Comprehension of Biological Complexity: Modeling, Execution, and Visualization of Thymic T-Cell Maturation. <i>Genome Research</i> , 2003, 13, 2485-2497.	5.5	122
7	The Immune System Computes the State of the Body: Crowd Wisdom, Machine Learning, and Immune Cell Reference Repertoires Help Manage Inflammation. <i>Frontiers in Immunology</i> , 2019, 10, 10.	4.8	120
8	Identification of Key Processes Underlying Cancer Phenotypes Using Biologic Pathway Analysis. <i>PLoS ONE</i> , 2007, 2, e425.	2.5	108
9	Tamoxifen-resistant breast cancer cells are resistant to DNA-damaging chemotherapy because of upregulated BARD1 and BRCA1. <i>Nature Communications</i> , 2018, 9, 1595.	12.8	89
10	Fmrp Interacts with Adar and Regulates RNA Editing, Synaptic Density and Locomotor Activity in Zebrafish. <i>PLoS Genetics</i> , 2015, 11, e1005702.	3.5	76
11	Reciprocal Regulation between SIRT6 and miR-122 Controls Liver Metabolism and Predicts Hepatocarcinoma Prognosis. <i>Cell Reports</i> , 2016, 14, 234-242.	6.4	73
12	Altered immune pathway activity under exercise challenge in Gulf War Illness: An exploratory analysis. <i>Brain, Behavior, and Immunity</i> , 2013, 28, 159-169.	4.1	70
13	System-wide Analysis of the T Cell Response. <i>Cell Reports</i> , 2016, 14, 2733-2744.	6.4	67
14	Emergent Dynamics of Thymocyte Development and Lineage Determination. <i>PLoS Computational Biology</i> , 2007, 3, e13.	3.2	64
15	Reactive animation: realistic modeling of complex dynamic systems. <i>Computer</i> , 2005, 38, 38-47.	1.1	59
16	Predicting and affecting response to cancer therapy based on pathway-level biomarkers. <i>Nature Communications</i> , 2020, 11, 3296.	12.8	55
17	Synaptojanin 2 is a druggable mediator of metastasis and the gene is overexpressed and amplified in breast cancer. <i>Science Signaling</i> , 2015, 8, ra7.	3.6	53
18	MicroRNA regulation of molecular pathways as a generic mechanism and as a core disease phenotype. <i>Oncotarget</i> , 2015, 6, 1594-1604.	1.8	50

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19	Using cellular automata modeling of the emergence of innovations. <i>Technological Forecasting and Social Change</i> , 2001, 68, 293-308.	11.6	45
20	A novel mitosis-associated lncRNA, MA-linc1, is required for cell cycle progression and sensitizes cancer cells to Paclitaxel. <i>Oncotarget</i> , 2015, 6, 27880-27890.	1.8	43
21	RBM38 Is a Direct Transcriptional Target of E2F1 that Limits E2F1-Induced Proliferation. <i>Molecular Cancer Research</i> , 2012, 10, 1169-1177.	3.4	41
22	Shift in GATA3 functions, and GATA3 mutations, control progression and clinical presentation in breast cancer. <i>Breast Cancer Research</i> , 2014, 16, 464.	5.0	40
23	Gene expression profile of empirically delineated classes of unexplained chronic fatigue. <i>Pharmacogenomics</i> , 2006, 7, 375-386.	1.3	37
24	Immunological analysis of phase II glioblastoma dendritic cell vaccine (Audencel) trial: immune system characteristics influence outcome and Audencel up-regulates Th1-related immunovariabiles. <i>Acta Neuropathologica Communications</i> , 2018, 6, 135.	5.2	37
25	Immune-Induced Evolutionary Selection Focused on a Single Reading Frame in Overlapping Hepatitis B Virus Proteins. <i>Journal of Virology</i> , 2011, 85, 4558-4566.	3.4	34
26	SENP5 mediates breast cancer invasion via a TGF $\beta$ 2RI SUMOylation cascade. <i>Oncotarget</i> , 2014, 5, 1071-1082.	1.8	34
27	Gene expression and network-based analysis reveals a novel role for hsa-miR-9 and drug control over the p38 network in glioblastoma multiforme progression. <i>Genome Medicine</i> , 2011, 3, 77.	8.2	33
28	The Pathologist: an automated tool for pathway-centric analysis. <i>BMC Bioinformatics</i> , 2011, 12, 133.	2.6	33
29	The whole-organism heavy chain B cell repertoire from Zebrafish self-organizes into distinct network features. <i>BMC Systems Biology</i> , 2011, 5, 27.	3.0	32
30	Biomarker robustness reveals the PDGF network as driving disease outcome in ovarian cancer patients in multiple studies. <i>BMC Systems Biology</i> , 2012, 6, 3.	3.0	28
31	Age-related loss of gene-to-gene transcriptional coordination among single cells. <i>Nature Metabolism</i> , 2020, 2, 1305-1315.	11.9	27
32	Simplicity belies a complex system: a response to the minimal model of immunity of Langman and Cohn. <i>Cellular Immunology</i> , 2002, 216, 23-30.	3.0	24
33	Detecting Cancer Gene Networks Characterized by Recurrent Genomic Alterations in a Population. <i>PLoS ONE</i> , 2011, 6, e14437.	2.5	24
34	Resistance to paclitaxel is associated with a variant of the gene BCL2 in multiple tumor types. <i>Npj Precision Oncology</i> , 2019, 3, 12.	5.4	21
35	Stem cells do play with dice: A statistical physics view of transcription. <i>Cell Cycle</i> , 2009, 8, 43-48.	2.6	20
36	De novo transcriptome assembly databases for the central nervous system of the medicinal leech. <i>Scientific Data</i> , 2015, 2, 150015.	5.3	20

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37	Distinct inhibitory effects on mTOR signaling by ethanol and INK128 in diffuse large B-cell lymphoma. <i>Cell Communication and Signaling</i> , 2015, 13, 15.	6.5	20
38	The immune system and other cognitive systems. <i>Complexity</i> , 2001, 6, 14-21.	1.6	18
39	Astrocyte-specific transcriptome analysis using the ALDH1L1 bacTRAP mouse reveals novel biomarkers of astrogliosis in response to neurotoxicity. <i>Journal of Neurochemistry</i> , 2019, 150, 420-440.	3.9	18
40	hsa-miR-9 controls the mobility behavior of glioblastoma cells via regulation of MAPK14 signaling elements. <i>Oncotarget</i> , 2016, 7, 23170-23181.	1.8	18
41	Heat acclimation memory: do the kinetics of the deacclimated transcriptome predispose to rapid reacclimation and cytoprotection?. <i>Journal of Applied Physiology</i> , 2014, 117, 1262-1277.	2.5	17
42	PhenoNet: identification of key networks associated with disease phenotype. <i>Bioinformatics</i> , 2014, 30, 2399-2405.	4.1	17
43	MicroRNA-Gene Association As a Prognostic Biomarker in Cancer Exposes Disease Mechanisms. <i>PLoS Computational Biology</i> , 2013, 9, e1003351.	3.2	15
44	Network as biomarker. <i>Systems Biomedicine (Austin, Tex )</i> , 2013, 1, 35-41.	0.7	15
45	Network Representation of T-Cell Repertoire” A Novel Tool to Analyze Immune Response to Cancer Formation. <i>Frontiers in Immunology</i> , 2018, 9, 2913.	4.8	15
46	Comparing Transcriptome Profiles of Neurons Interfacing Adjacent Cells and Nanopatterned Substrates Reveals Fundamental Neuronal Interactions. <i>Nano Letters</i> , 2019, 19, 1451-1459.	9.1	15
47	The heuristics of biologic theory: the case of self-nonself discrimination. <i>Cellular Immunology</i> , 2003, 223, 87-89.	3.0	14
48	Autotaxin-Lysophosphatidic Acid Axis Acts Downstream of Apoprotein B Lipoproteins in Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 2058-2067.	2.4	14
49	Dendritic Cells in the Context of Human Tumors: Biology and Experimental Tools. <i>International Reviews of Immunology</i> , 2016, 35, 116-135.	3.3	14
50	Superposition of Transcriptional Behaviors Determines Gene State. <i>PLoS ONE</i> , 2008, 3, e2901.	2.5	14
51	Reactive Animation. <i>Lecture Notes in Computer Science</i> , 2003, , 136-153.	1.3	13
52	Introducing Systems Biomedicine. <i>Systems Biomedicine (Austin, Tex )</i> , 2013, 1, 1-1.	0.7	11
53	Design principles of biologically fabricated avian nests. <i>Scientific Reports</i> , 2019, 9, 4792.	3.3	11
54	Breast cancer is marked by specific, Public T-cell receptor CDR3 regions shared by mice and humans. <i>PLoS Computational Biology</i> , 2021, 17, e1008486.	3.2	11

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55	Concurrency in Biological Modeling: Behavior, Execution and Visualization. <i>Electronic Notes in Theoretical Computer Science</i> , 2008, 194, 119-131.	0.9	9
56	Classification of lung adenocarcinoma and squamous cell carcinoma samples based on their gene expression profile in the sbv IMPROVER Diagnostic Signature Challenge. <i>Systems Biomedicine (Austin, Tex)</i> , 2013, 1, 76-83.	0.7	0
57	A T cell repertoire timestamp is at the core of responsiveness to CTLA-4 blockade. <i>IScience</i> , 2021, 24, 102100.	4.1	8
58	Digitizable therapeutics for decentralized mitigation of global pandemics. <i>Scientific Reports</i> , 2019, 9, 14345.	3.3	7
59	Reactive animation: From piecemeal experimentation to reactive biological systems. <i>Autoimmunity</i> , 2011, 44, 271-281.	2.6	6
60	Spatial regulation dominates gene function in the ganglia chain. <i>Bioinformatics</i> , 2014, 30, 310-316.	4.1	6
61	A modeling algorithm for exploring the architecture and construction of bird nests. <i>Scientific Reports</i> , 2019, 9, 14772.	3.3	6
62	CDR3 and V genes show distinct reconstitution patterns in T cell repertoire post-allogeneic bone marrow transplantation. <i>Immunogenetics</i> , 2021, 73, 163-173.	2.4	6
63	A theory for complex systems: reactive animation. <i>Studies in Multidisciplinary</i> , 2005, , 309-324.	0.0	5
64	Systems analysis utilising pathway interactions identifies sonic hedgehog pathway as a primary biomarker and oncogenic target in hepatocellular carcinoma. <i>IET Systems Biology</i> , 2013, 7, 243-251.	1.5	5
65	Cell studio: A platform for interactive, 3D graphical simulation of immunological processes. <i>APL Bioengineering</i> , 2018, 2, 026107.	6.2	5
66	T cell repertoire sequencing as a cancer's liquid biopsy "can we decode what the immune system is coding?". <i>Current Opinion in Systems Biology</i> , 2020, 24, 135-141.	2.6	4
67	A single nucleotide variant of human PARP1 determines response to PARP inhibitors. <i>Npj Precision Oncology</i> , 2020, 4, 10.	5.4	3
68	Distribution equality as an optimal epidemic mitigation strategy. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
69	Experimental Support for the Ecoimmunity Theory: Distinct Phenotypes of Nonlymphocytic Cells in SCID and Wild-Type Mice. <i>Cell Transplantation</i> , 2016, 25, 1575-1588.	2.5	1
70	Immune Computation and COVID-19 Mortality: A Rationale for IVIg. <i>Critical Reviews in Immunology</i> , 2020, 40, 195-203.	0.5	1
71	hsa-miR-9 and drug control over the P38 network as driving disease outcome in GBM patients. <i>Systems Biomedicine (Austin, Tex)</i> , 2013, 1, 76-83.	0.7	0
72	IL-27 acts on DCs to suppress CNS autoimmunity by inducing CD39 expression. <i>Journal of Neuroimmunology</i> , 2014, 275, 88.	2.3	0

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73	Quantification of read species behavior within whole genome sequencing of cancer genomes for the stratification and visualization of genomic variation. Nucleic Acids Research, 2016, 44, e81-e81.	14.5	0
74	Emergent Dynamics of Thymocyte Development and Lineage Determination. PLoS Computational Biology, 2005, preprint, e13.	3.2	0
75	10.1063/1.5039473.1. , 2018, , .		0
76	Abstract B39: The T-cell repertoire as a biomarker for response to anti PD-1 immunotherapy. , 2020, , .		0