

Aviad Tsherniak

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.

74 papers	8,686 citations	39 h-index	82 g-index
82 ext. papers	12,789 ext. citations	22.5 avg, IF	5.22 L-index

#	Paper	IF	Citations
74	Next-generation characterization of the Cancer Cell Line Encyclopedia. <i>Nature</i> , 2019 , 569, 503-508	50.4	962
73	Defining a Cancer Dependency Map. <i>Cell</i> , 2017 , 170, 564-576.e16	56.2	844
72	Computational correction of copy number effect improves specificity of CRISPR-Cas9 essentiality screens in cancer cells. <i>Nature Genetics</i> , 2017 , 49, 1779-1784	36.3	740
71	β-Catenin-driven cancers require a YAP1 transcriptional complex for survival and tumorigenesis. <i>Cell</i> , 2012 , 151, 1457-73	56.2	522
70	Integrative genomic analysis of medulloblastoma identifies a molecular subgroup that drives poor clinical outcome. <i>Journal of Clinical Oncology</i> , 2011 , 29, 1424-30	2.2	513
69	Genetic and transcriptional evolution alters cancer cell line drug response. <i>Nature</i> , 2018 , 560, 325-330	50.4	379
68	Prognostically relevant gene signatures of high-grade serous ovarian carcinoma. <i>Journal of Clinical Investigation</i> , 2013 , 123, 517-25	15.9	371
67	Genomic Copy Number Dictates a Gene-Independent Cell Response to CRISPR/Cas9 Targeting. <i>Cancer Discovery</i> , 2016 , 6, 914-29	24.4	343
66	Systematic investigation of genetic vulnerabilities across cancer cell lines reveals lineage-specific dependencies in ovarian cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12372-7	11.5	321
65	SWI/SNF-mutant cancers depend on catalytic and non-catalytic activity of EZH2. <i>Nature Medicine</i> , 2015 , 21, 1491-6	50.5	252
64	Parallel genome-scale loss of function screens in 216 cancer cell lines for the identification of context-specific genetic dependencies. <i>Scientific Data</i> , 2014 , 1, 140035	8.2	251
63	MTAP deletion confers enhanced dependency on the PRMT5 arginine methyltransferase in cancer cells. <i>Science</i> , 2016 , 351, 1214-8	33.3	248
62	The landscape of cancer cell line metabolism. <i>Nature Medicine</i> , 2019 , 25, 850-860	50.5	188
61	Mutational processes shape the landscape of TP53 mutations in human cancer. <i>Nature Genetics</i> , 2018 , 50, 1381-1387	36.3	165
60	Cancer vulnerabilities unveiled by genomic loss. <i>Cell</i> , 2012 , 150, 842-54	56.2	163
59	Improved estimation of cancer dependencies from large-scale RNAi screens using model-based normalization and data integration. <i>Nature Communications</i> , 2018 , 9, 4610	17.4	155
58	WRN helicase is a synthetic lethal target in microsatellite unstable cancers. <i>Nature</i> , 2019 , 568, 551-556	50.4	137

57	Discovering the anti-cancer potential of non-oncology drugs by systematic viability profiling. <i>Nature Cancer</i> , 2020 , 1, 235-248	15.4	137
56	High-throughput identification of genotype-specific cancer vulnerabilities in mixtures of barcoded tumor cell lines. <i>Nature Biotechnology</i> , 2016 , 34, 419-23	44.5	127
55	SQSTM1 is a pathogenic target of 5q copy number gains in kidney cancer. <i>Cancer Cell</i> , 2013 , 24, 738-50	24.3	111
54	Selective gene dependencies in MYCN-amplified neuroblastoma include the core transcriptional regulatory circuitry. <i>Nature Genetics</i> , 2018 , 50, 1240-1246	36.3	94
53	ATARI ^S : computational quantification of gene suppression phenotypes from multisample RNAi screens. <i>Genome Research</i> , 2013 , 23, 665-78	9.7	93
52	Extracting Biological Insights from the Project Achilles Genome-Scale CRISPR Screens in Cancer Cell Lines		88
51	Identification of ADAR1 adenosine deaminase dependency in a subset of cancer cells. <i>Nature Communications</i> , 2018 , 9, 5450	17.4	83
50	CRISPR-Cas9 screen reveals a MYCN-amplified neuroblastoma dependency on EZH2. <i>Journal of Clinical Investigation</i> , 2018 , 128, 446-462	15.9	72
49	Agreement between two large pan-cancer CRISPR-Cas9 gene dependency data sets. <i>Nature Communications</i> , 2019 , 10, 5817	17.4	70
48	Somatic Superenhancer Duplications and Hotspot Mutations Lead to Oncogenic Activation of the KLF5 Transcription Factor. <i>Cancer Discovery</i> , 2018 , 8, 108-125	24.4	67
47	Complementary information derived from CRISPR Cas9 mediated gene deletion and suppression. <i>Nature Communications</i> , 2017 , 8, 15403	17.4	65
46	Interrogation of Mammalian Protein Complex Structure, Function, and Membership Using Genome-Scale Fitness Screens. <i>Cell Systems</i> , 2018 , 6, 555-568.e7	10.6	65
45	Pan-cancer single-cell RNA-seq identifies recurring programs of cellular heterogeneity. <i>Nature Genetics</i> , 2020 , 52, 1208-1218	36.3	63
44	Mitochondrial metabolism promotes adaptation to proteotoxic stress. <i>Nature Chemical Biology</i> , 2019 , 15, 681-689	11.7	62
43	Predicting relapse in patients with medulloblastoma by integrating evidence from clinical and genomic features. <i>Journal of Clinical Oncology</i> , 2011 , 29, 1415-23	2.2	58
42	Characterizing genomic alterations in cancer by complementary functional associations. <i>Nature Biotechnology</i> , 2016 , 34, 539-46	44.5	57
41	Targetable vulnerabilities in T- and NK-cell lymphomas identified through preclinical models. <i>Nature Communications</i> , 2018 , 9, 2024	17.4	54
40	Identification of cancer-cytotoxic modulators of PDE3A by predictive chemogenomics. <i>Nature Chemical Biology</i> , 2016 , 12, 102-8	11.7	51

39	Functional, chemical genomic, and super-enhancer screening identify sensitivity to cyclin D1/CDK4 pathway inhibition in Ewing sarcoma. <i>Oncotarget</i> , 2015 , 6, 30178-93	3.3	51
38	Copy-number and gene dependency analysis reveals partial copy loss of wild-type SF3B1 as a novel cancer vulnerability. <i>ELife</i> , 2017 , 6,	8.9	49
37	Multiplex CRISPR/Cas9-Based Genome Editing in Human Hematopoietic Stem Cells Models Clonal Hematopoiesis and Myeloid Neoplasia. <i>Cell Stem Cell</i> , 2017 , 21, 547-555.e8	18	43
36	Genome-scale CRISPR-Cas9 screen identifies druggable dependencies in wild-type Ewing sarcoma. <i>Journal of Experimental Medicine</i> , 2018 , 215, 2137-2155	16.6	43
35	Multiplexed single-cell transcriptional response profiling to define cancer vulnerabilities and therapeutic mechanism of action. <i>Nature Communications</i> , 2020 , 11, 4296	17.4	37
34	GeNets: a unified web platform for network-based genomic analyses. <i>Nature Methods</i> , 2018 , 15, 543-546.e11	16.6	36
33	Genome-scale analysis identifies paralog lethality as a vulnerability of chromosome 1p loss in cancer. <i>Nature Genetics</i> , 2018 , 50, 937-943	36.3	35
32	Integrated genetic and pharmacologic interrogation of rare cancers. <i>Nature Communications</i> , 2016 , 7, 11987	17.4	32
31	An Embryonic Diapause-like Adaptation with Suppressed Myc Activity Enables Tumor Treatment Persistence. <i>Cancer Cell</i> , 2021 , 39, 240-256.e11	24.3	29
30	Decomposing Oncogenic Transcriptional Signatures to Generate Maps of Divergent Cellular States. <i>Cell Systems</i> , 2017 , 5, 105-118.e9	10.6	27
29	mutant tumors depend on oxoglutarate dehydrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3434-E3443	11.5	24
28	MDM2 and MDM4 Are Therapeutic Vulnerabilities in Malignant Rhabdoid Tumors. <i>Cancer Research</i> , 2019 , 79, 2404-2414	10.1	24
27	PRMT1-Mediated Translation Regulation Is a Crucial Vulnerability of Cancer. <i>Cancer Research</i> , 2017 , 77, 4613-4625	10.1	21
26	A first-generation pediatric cancer dependency map. <i>Nature Genetics</i> , 2021 , 53, 529-538	36.3	21
25	Small-Molecule and CRISPR Screening Converge to Reveal Receptor Tyrosine Kinase Dependencies in Pediatric Rhabdoid Tumors. <i>Cell Reports</i> , 2019 , 28, 2331-2344.e8	10.6	20
24	Global computational alignment of tumor and cell line transcriptional profiles. <i>Nature Communications</i> , 2021 , 12, 22	17.4	19
23	Neuronal differentiation and cell-cycle programs mediate response to BET-bromodomain inhibition in MYC-driven medulloblastoma. <i>Nature Communications</i> , 2019 , 10, 2400	17.4	18
22	Genome-Wide Interrogation of Human Cancers Identifies EGLN1 Dependency in Clear Cell Ovarian Cancers. <i>Cancer Research</i> , 2019 , 79, 2564-2579	10.1	18

21	Integrated cross-study datasets of genetic dependencies in cancer. <i>Nature Communications</i> , 2021 , 12, 1661	17.4	17
20	Identification of an "Exceptional Responder" Cell Line to MEK1 Inhibition: Clinical Implications for MEK-Targeted Therapy. <i>Molecular Cancer Research</i> , 2016 , 14, 207-15	6.6	16
19	Functional Genomics Identify Distinct and Overlapping Genes Mediating Resistance to Different Classes of Heterobifunctional Degradors of Oncoproteins. <i>Cell Reports</i> , 2021 , 34, 108532	10.6	15
18	A Community Challenge for Inferring Genetic Predictors of Gene Essentialities through Analysis of a Functional Screen of Cancer Cell Lines. <i>Cell Systems</i> , 2017 , 5, 485-497.e3	10.6	14
17	Gene expression has more power for predicting in vitro cancer cell vulnerabilities than genomics		12
16	Functional Genomic Characterization of Cancer Genomes. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2016 , 81, 237-246	3.9	11
15	Open Community Challenge Reveals Molecular Network Modules with Key Roles in Diseases		10
14	Pan-cancer single cell RNA-seq uncovers recurring programs of cellular heterogeneity		9
13	Genome-scale screens identify factors regulating tumor cell responses to natural killer cells. <i>Nature Genetics</i> , 2021 , 53, 1196-1206	36.3	9
12	Chronos: a cell population dynamics model of CRISPR experiments that improves inference of gene fitness effects.. <i>Genome Biology</i> , 2021 , 22, 343	18.3	8
11	Synthetic Lethal Interaction between the ESCRT Paralog Enzymes VPS4A and VPS4B in Cancers Harboring Loss of Chromosome 18q or 16q. <i>Cell Reports</i> , 2020 , 33, 108493	10.6	7
10	ECatenin-Driven Cancers Require a YAP1 Transcriptional Complex for Survival and Tumorigenesis. <i>Cell</i> , 2013 , 153, 267-270	56.2	6
9	Non-oncology drugs are a source of previously unappreciated anti-cancer activity		6
8	Multiplexed single-cell profiling of post-perturbation transcriptional responses to define cancer vulnerabilities and therapeutic mechanism of action		3
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3	Chronos: a CRISPR cell population dynamics model	2
2	Computational correction of copy-number effect improves specificity of CRISPR-Cas9 essentiality screens in cancer cells	1
1	Post-perturbational transcriptional signatures of cancer cell line vulnerabilities	1