

# Kevin R Brown

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

6,920  
citations

172207

29  
h-index

168136

53  
g-index

66  
all docs

66  
docs citations

66  
times ranked

12078  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Resolution CRISPR Screens Reveal Fitness Genes and Genotype-Specific Cancer Liabilities. <i>Cell</i> , 2015, 163, 1515-1526.	13.5	1,339
2	High-Throughput Mapping of a Dynamic Signaling Network in Mammalian Cells. <i>Science</i> , 2005, 307, 1621-1625.	6.0	651
3	Online Predicted Human Interaction Database. <i>Bioinformatics</i> , 2005, 21, 2076-2082.	1.8	557
4	Evaluation and Design of Genome-Wide CRISPR/SpCas9 Knockout Screens. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 2719-2727.	0.8	417
5	Functional Genomic Landscape of Human Breast Cancer Drivers, Vulnerabilities, and Resistance. <i>Cell</i> , 2016, 164, 293-309.	13.5	399
6	Measuring error rates in genomic perturbation screens: gold standards for human functional genomics. <i>Molecular Systems Biology</i> , 2014, 10, 733.	3.2	322
7	Unequal evolutionary conservation of human protein interactions in interologous networks. <i>Genome Biology</i> , 2007, 8, R95.	13.9	308
8	Essential Gene Profiles in Breast, Pancreatic, and Ovarian Cancer Cells. <i>Cancer Discovery</i> , 2012, 2, 172-189.	7.7	276
9	Genome-wide CRISPR screens reveal a Wnt-FZD5 signaling circuit as a druggable vulnerability of RNF43-mutant pancreatic tumors. <i>Nature Medicine</i> , 2017, 23, 60-68.	15.2	261
10	Colorectal Cancer Cells Enter a Diapause-like DTP State to Survive Chemotherapy. <i>Cell</i> , 2021, 184, 226-242.e21.	13.5	258
11	Functional genomic landscape of cancer-intrinsic evasion of killing by T cells. <i>Nature</i> , 2020, 586, 120-126.	13.7	249
12	NAViGaTOR: Network Analysis, Visualization and Graphing Toronto. <i>Bioinformatics</i> , 2009, 25, 3327-3329.	1.8	234
13	Connective Tissue Disease-associated Interstitial Lung Diseases (CTD-ILD) Report from OMERACT CTD-ILD Working Group. <i>Journal of Rheumatology</i> , 2015, 42, 2168-2171.	1.0	142
14	System-Wide Modulation of HECT E3 Ligases with Selective Ubiquitin Variant Probes. <i>Molecular Cell</i> , 2016, 62, 121-136.	4.5	142
15	Regulation of Epidermal Growth Factor Receptor Trafficking by Lysine Deacetylase HDAC6. <i>Science Signaling</i> , 2009, 2, ra84.	1.6	140
16	A negative genetic interaction map in isogenic cancer cell lines reveals cancer cell vulnerabilities. <i>Molecular Systems Biology</i> , 2013, 9, 696.	3.2	90
17	Essential Gene Profiles for Human Pluripotent Stem Cells Identify Uncharacterized Genes and Substrate Dependencies. <i>Cell Reports</i> , 2019, 27, 599-615.e12.	2.9	85
18	Genetic interaction mapping and exon-resolution functional genomics with a hybrid Cas9-Cas12a platform. <i>Nature Biotechnology</i> , 2020, 38, 638-648.	9.4	85

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19	Systematic identification of SH3 domain-mediated human protein-protein interactions by peptide array target screening. <i>Proteomics</i> , 2007, 7, 1775-1785.	1.3	74
20	Systematic mapping of genetic interactions for de novo fatty acid synthesis identifies C12orf49 as a regulator of lipid metabolism. <i>Nature Metabolism</i> , 2020, 2, 499-513.	5.1	72
21	Identification of novel ATP13A2 interactors and their role in $\alpha$ -synuclein misfolding and toxicity. <i>Human Molecular Genetics</i> , 2012, 21, 3785-3794.	1.4	66
22	Identification of P450 Oxidoreductase as a Major Determinant of Sensitivity to Hypoxia-Activated Prodrugs. <i>Cancer Research</i> , 2015, 75, 4211-4223.	0.4	65
23	Integrated proteomic and transcriptomic profiling of mouse lung development and Nmyc target genes. <i>Molecular Systems Biology</i> , 2007, 3, 109.	3.2	64
24	Genome-wide RNAi analysis reveals that simultaneous inhibition of specific mevalonate pathway genes potentiates tumor cell death. <i>Oncotarget</i> , 2015, 6, 26909-26921.	0.8	52
25	COLT-Cancer: functional genetic screening resource for essential genes in human cancer cell lines. <i>Nucleic Acids Research</i> , 2012, 40, D957-D963.	6.5	46
26	Ontogeny and Vulnerabilities of Drug-Tolerant Persisters in HER2+ Breast Cancer. <i>Cancer Discovery</i> , 2022, 12, 1022-1045.	7.7	43
27	Interrogation of Functional Cell-Surface Markers Identifies CD151 Dependency in High-Grade Serous Ovarian Cancer. <i>Cell Reports</i> , 2017, 18, 2343-2358.	2.9	38
28	Cotargeting Ephrin Receptor Tyrosine Kinases A2 and A3 in Cancer Stem Cells Reduces Growth of Recurrent Glioblastoma. <i>Cancer Research</i> , 2018, 78, 5023-5037.	0.4	36
29	CRISPR screens are feasible in TP53 wild-type cells. <i>Molecular Systems Biology</i> , 2019, 15, e8679.	3.2	32
30	A comprehensive platform for highly multiplexed mammalian functional genetic screens. <i>BMC Genomics</i> , 2011, 12, 213.	1.2	31
31	CD70 as an actionable immunotherapeutic target in recurrent glioblastoma and its microenvironment. <i>Cell Reports</i> , 2022, 10, e003289.		31
32	Substrate specificity of the p53-associated 3'5' exonuclease. <i>Oncogene</i> , 2000, 19, 3321-3329.	2.6	30
33	RNAi screen identifies essential regulators of human brain metastasis-initiating cells. <i>Acta Neuropathologica</i> , 2017, 134, 923-940.	3.9	26
34	Functional genomics identifies new synergistic therapies for retinoblastoma. <i>Oncogene</i> , 2020, 39, 5338-5357.	2.6	26
35	Efficient generation of patient-matched malignant and normal primary cell cultures from clear cell renal cell carcinoma patients: clinically relevant models for research and personalized medicine. <i>BMC Cancer</i> , 2016, 16, 485.	1.1	23
36	A Novel Role for NUA1 in Promoting Ovarian Cancer Metastasis through Regulation of Fibronectin Production in Spheroids. <i>Cancers</i> , 2020, 12, 1250.	1.7	20

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37	Haploinsufficiency of RREB1 causes a Noonan-like RASopathy via epigenetic reprogramming of RAS-MAPK pathway genes. <i>Nature Communications</i> , 2020, 11, 4673.	5.8	19
38	An oncogenic KRAS transcription program activates the RHOGEF ARHGEF2 to mediate transformed phenotypes in pancreatic cancer. <i>Oncotarget</i> , 2017, 8, 4484-4500.	0.8	18
39	NOX4 links metabolic regulation in pancreatic cancer to endoplasmic reticulum redox vulnerability and dependence on PRDX4. <i>Science Advances</i> , 2021, 7, .	4.7	15
40	Bmi1 regulates human glioblastoma stem cells through activation of differential gene networks in CD133+ brain tumor initiating cells. <i>Journal of Neuro-Oncology</i> , 2019, 143, 417-428.	1.4	13
41	Targeting the centriolar replication factor STIL synergizes with DNA damaging agents for treatment of ovarian cancer. <i>Oncotarget</i> , 2017, 8, 27380-27392.	0.8	13
42	Inhibition of relaxin autocrine signaling confers therapeutic vulnerability in ovarian cancer. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	12
43	A nuclear 3'→5' exonuclease proofreads for the exonuclease-deficient DNA polymerase $\delta$ . <i>DNA Repair</i> , 2002, 1, 795-810.	1.3	11
44	A rapid in vitro methodology for simultaneous target discovery and antibody generation against functional cell subpopulations. <i>Scientific Reports</i> , 2019, 9, 842.	1.6	10
45	RAD51-Mediated DNA Homologous Recombination Is Independent of PTEN Mutational Status. <i>Cancers</i> , 2020, 12, 3178.	1.7	10
46	Pooled CRISPR-Based Genetic Screens in Mammalian Cells. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	9
47	A method for benchmarking genetic screens reveals a predominant mitochondrial bias. <i>Molecular Systems Biology</i> , 2021, 17, e10013.	3.2	8
48	A 3'→5' Exonuclease in Human Leukemia Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 25814-25819.	1.6	7
49	Analysis of combinatorial CRISPR screens with the Orthrus scoring pipeline. <i>Nature Protocols</i> , 2021, 16, 4766-4798.	5.5	7
50	Miniature Short Hairpin RNA Screens to Characterize Antiproliferative Drugs. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1375-1387.	0.8	5
51	Forward genetic screen in human podocytes identifies diphthamide biosynthesis genes as regulators of adhesion. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, F1593-F1604.	1.3	4
52	Integrated Genomic, Transcriptomic, and RNA-Interference Analysis of Genes in Somatic Copy Number Gains in Pancreatic Ductal Adenocarcinoma. <i>Pancreas</i> , 2013, 42, 1016-1026.	0.5	3
53	Functional genomic characterization of a synthetic anti-HER3 antibody reveals a role for ubiquitination by RNF41 in the anti-proliferative response. <i>Journal of Biological Chemistry</i> , 2019, 294, 1396-1409.	1.6	3
54	MEDU-44. MUSASHI-1 IS A MASTER REGULATOR OF ABERRANT TRANSLATION IN GROUP 3 MEDULLOBLASTOMA. <i>Neuro-Oncology</i> , 2019, 21, ii112-ii113.	0.6	0

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55	Systematic Genome-Scale Identification of Host Factors for SARS-CoV-2 Infection Across Models Yields a Core Single Gene Dependency; <i>Ace2</i>. SSRN Electronic Journal, 0, , .	0.4	0
56	High-Throughput Screening of Protein Interaction Networks in the TGF $\beta$ 2 Interactome: Understanding the Signaling Mechanisms Driving Tumor Progression. , 2008, , 265-284.		0