Michael C Bassik

List of Publications by Year
in descending order

79 papers	12,101 citations	61857 43 h-index	71532 76 g-index
97 all docs	97 docs citations	97 times ranked	19029 citing authors

#	Article	IF	Citations
1	Small molecule C381 targets the lysosome to reduce inflammation and ameliorate disease in models of neurodegeneration. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121609119.	3.3	14
2	Pathogenic or benign?. Nature Biotechnology, 2022, , .	9.4	0
3	Ribosome stalling during selenoprotein translation exposes a ferroptosis vulnerability. Nature Chemical Biology, 2022, 18, 751-761.	3.9	47
4	Genome-wide CRISPR screens reveal a specific ligand for the glycan-binding immune checkpoint receptor Siglec-7. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	73
5	Genetic architectures of proximal and distal colorectal cancer are partly distinct. Gut, 2021, 70, 1325-1334.	6.1	44
6	p53 is a central regulator driving neurodegeneration caused by C9orf72 poly(PR). Cell, 2021, 184, 689-708.e20.	13.5	104
7	A New Paradigm in Catalase Research. Trends in Cell Biology, 2021, 31, 148-151.	3.6	27
8	The AMBRA1 E3 ligase adaptor regulates the stability of cyclinÂD. Nature, 2021, 592, 794-798.	13.7	76
9	A genome-wide atlas of co-essential modules assigns function to uncharacterized genes. Nature Genetics, 2021, 53, 638-649.	9.4	86
10	Gene Fusions Create Partner and Collateral Dependencies Essential to Cancer Cell Survival. Cancer Research, 2021, 81, 3971-3984.	0.4	11
11	An engineered transcriptional reporter of protein localization identifies regulators of mitochondrial and ER membrane protein trafficking in high-throughput CRISPRi screens. ELife, 2021, 10, .	2.8	17
12	LKB1 inactivation modulates chromatin accessibility to drive metastatic progression. Nature Cell Biology, 2021, 23, 915-924.	4.6	26
13	Inter-cellular CRISPR screens reveal regulators of cancer cell phagocytosis. Nature, 2021, 597, 549-554.	13.7	95
14	Roadmap for the use of base editors to decipher drug mechanism of action. PLoS ONE, 2021, 16, e0257537.	1.1	1
15	A genome-wide analysis of targets of macrolide antibiotics in mammalian cells. Journal of Biological Chemistry, 2020, 295, 2057-2067.	1.6	10
16	Genome-wide synthetic lethal CRISPR screen identifies FIS1 as a genetic interactor of ALS-linked C9ORF72. Brain Research, 2020, 1728, 146601.	1.1	16
17	Metabolic precision labeling enables selective probing of O-linked N -acetylgalactosamine glycosylation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25293-25301.	3.3	55
18	LRRC8A:C/E Heteromeric Channels Are Ubiquitous Transporters of cGAMP. Molecular Cell, 2020, 80, 578-591.e5.	4.5	96

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19	Combined Proteomic and Genetic Interaction Mapping Reveals New RAS Effector Pathways and Susceptibilities. Cancer Discovery, 2020, 10, 1950-1967.	7.7	28
20	Transcriptomic signatures across human tissues identify functional rare genetic variation. Science, 2020, 369, .	6.0	89
21	High-Throughput Discovery and Characterization of Human Transcriptional Effectors. Cell, 2020, 183, 2020-2035.e16.	13.5	71
22	Zmat3 Is a Key Splicing Regulator in the p53 Tumor Suppression Program. Molecular Cell, 2020, 80, 452-469.e9.	4.5	44
23	CRISPR screens in cancer spheroids identify 3D growth-specific vulnerabilities. Nature, 2020, 580, 136-141.	13.7	203
24	Systematic Identification of Regulators of Oxidative Stress Reveals Non-canonical Roles for Peroxisomal Import and the Pentose Phosphate Pathway. Cell Reports, 2020, 30, 1417-1433.e7.	2.9	49
25	Enhancing the Antiviral Efficacy of RNA-Dependent RNA Polymerase Inhibition by Combination with Modulators of Pyrimidine Metabolism. Cell Chemical Biology, 2020, 27, 668-677.e9.	2.5	23
26	Genetic Modulators of Niclosamide Sensitivity and Resistance in Acute Myeloid Leukemia. Blood, 2020, 136, 29-29.	0.6	1
27	Neuronally Enriched RUFY3 Is Required for Caspase-Mediated Axon Degeneration. Neuron, 2019, 103, 412-422.e4.	3.8	12
28	A ZDHHC5-GOLGA7 Protein Acyltransferase Complex Promotes Nonapoptotic Cell Death. Cell Chemical Biology, 2019, 26, 1716-1724.e9.	2.5	40
29	CRISPR-Cas9 Screens Identify the RNA Helicase DDX3X as a Repressor of C9ORF72 (GGGGCC)n Repeat-Associated Non-AUG Translation. Neuron, 2019, 104, 885-898.e8.	3.8	107
30	Discovery of small molecule inhibitors of human uridine-cytidine kinase 2 by high-throughput screening. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 2559-2564.	1.0	14
31	CRISPR-Cas9 screens identify regulators of antibodyâ€“drug conjugate toxicity. Nature Chemical Biology, 2019, 15, 949-958.	3.9	56
32	Mitigation of off-target toxicity in CRISPR-Cas9 screens for essential non-coding elements. Nature Communications, 2019, 10, 4063.	5.8	104
33	Systematic Identification of Host Cell Regulators of Legionella pneumophila Pathogenesis Using a Genome-wide CRISPR Screen. Cell Host and Microbe, 2019, 26, 551-563.e6.	5.1	62
34	Phagolysosome resolution requires contacts with the endoplasmic reticulum and phosphatidylinositol-4-phosphate signalling. Nature Cell Biology, 2019, 21, 1234-1247.	4.6	80
35	Targeted genomic CRISPR-Cas9 screen identifies MAP4K4 as essential for glioblastoma invasion. Scientific Reports, 2019, 9, 14020.	1.6	38
36	SLC19A1 Is an Importer of the Immunotransmitter cGAMP. Molecular Cell, 2019, 75, 372-381.e5.	4.5	217

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37	Astrocyteâ€toâ€astrocyte contact and a positive feedback loop of growth factor signaling regulate astrocyte maturation. Glia, 2019, 67, 1571-1597.	2.5	58
38	CD22 blockade restores homeostatic microglial phagocytosis in ageing brains. Nature, 2019, 568, 187-192.	13.7	283
39	The CoQ oxidoreductase FSP1 acts parallel to GPX4 to inhibit ferroptosis. Nature, 2019, 575, 688-692.	13.7	1,756
40	Genome-wide CRISPR Analysis Identifies Substrate-Specific Conjugation Modules in ER-Associated Degradation. Molecular Cell, 2019, 73, 377-389.e11.	4.5	102
41	Discovery of common and rare genetic risk variants for colorectal cancer. Nature Genetics, 2019, 51, 76-87.	9.4	377
42	Retro-2 protects cells from ricin toxicity by inhibiting ASNA1-mediated ER targeting and insertion of tail-anchored proteins. ELife, 2019, 8, .	2.8	17
43	CRISPRâ€“Cas9 screens in human cells and primary neurons identify modifiers of C9ORF72 dipeptide-repeat-protein toxicity. Nature Genetics, 2018, 50, 603-612.	9.4	178
44	A CRISPR-based screen for Hedgehog signaling provides insights into ciliary function and ciliopathies. Nature Genetics, 2018, 50, 460-471.	9.4	140
45	Selective silencing of euchromatic L1s revealed by genome-wide screens for L1 regulators. Nature, 2018, 553, 228-232.	13.7	234
46	KIF15 nanomechanics and kinesin inhibitors, with implications for cancer chemotherapeutics. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4613-E4622.	3.3	40
47	Identification of phagocytosis regulators using magnetic genome-wide CRISPR screens. Nature Genetics, 2018, 50, 1716-1727.	9.4	135
48	CBP Modulates Sensitivity to Dasatinib in Pre-BCR+ Acute Lymphoblastic Leukemia. Cancer Research, 2018, 78, 6497-6508.	0.4	10
49	Genome-wide interrogation of extracellular vesicle biology using barcoded miRNAs. ELife, 2018, 7, .	2.8	27
50	Finding host targets for HIV therapy. Nature Genetics, 2017, 49, 175-176.	9.4	10
51	Population- and individual-specific regulatory variation in Sardinia. Nature Genetics, 2017, 49, 700-707.	9.4	38
52	Suppression of B-cell development genes is key to glucocorticoid efficacy in treatment of acute lymphoblastic leukemia. Blood, 2017, 129, 3000-3008.	0.6	48
53	Genome-scale measurement of off-target activity using Cas9 toxicity in high-throughput screens. Nature Communications, 2017, 8, 15178.	5.8	284
54	Human pyrimidine nucleotide biosynthesis as a target for antiviral chemotherapy. Current Opinion in Biotechnology, 2017, 48, 127-134.	3.3	64

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55	Synergistic drug combinations for cancer identified in a CRISPR screen for pairwise genetic interactions. Nature Biotechnology, 2017, 35, 463-474.	9.4	408
56	Methods and Applications of CRISPR-Mediated Base Editing in Eukaryotic Genomes. Molecular Cell, 2017, 68, 26-43.	4.5	199
57	The impact of rare variation on gene expression across tissues. Nature, 2017, 550, 239-243.	13.7	229
58	Static and Dynamic DNA Loops form AP-1-Bound Activation Hubs during Macrophage Development. Molecular Cell, 2017, 67, 1037-1048.e6.	4.5	242
59	CMTM6 maintains the expression of PD-L1 and regulates anti-tumour immunity. Nature, 2017, 549, 101-105.	13.7	624
60	The mTOR Complex Controls HIV Latency. Cell Host and Microbe, 2016, 20, 785-797.	5.1	179
61	Systematic comparison of CRISPR/Cas9 and RNAi screens for essential genes. Nature Biotechnology, 2016, 34, 634-636.	9.4	359
62	E2A-PBX1 Remodels Oncogenic Signaling Networks in B-cell Precursor Acute Lymphoid Leukemia. Cancer Research, 2016, 76, 6937-6949.	0.4	27
63	Bithionol blocks pathogenicity of bacterial toxins, ricin and Zika virus. Scientific Reports, 2016, 6, 34475.	1.6	24
64	Directed evolution using dCas9-targeted somatic hypermutation in mammalian cells. Nature Methods, 2016, 13, 1036-1042.	9.0	378
65	Parallel shRNA and CRISPR-Cas9 screens enable antiviral drug target identification. Nature Chemical Biology, 2016, 12, 361-366.	3.9	157
66	The Salicylamide Derivative, Niclosamide, Inhibits CREB Function in Acute Myeloid Leukemia Cells In Vitro and In Vivo. Blood, 2016, 128, 1647-1647.	0.6	0
67	Next-generation libraries for robust RNA interference-based genome-wide screens. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3384-91.	3.3	83
68	Oncogenic Role for the Lck/ZAP70/PLCG2 Signaling Pathway in Pre-B-ALL Pathogenesis. Blood, 2015, 126, 810-810.	0.6	2
69	A high-coverage shRNA screen identifies TMEM129 as an E3 ligase involved in ER-associated protein degradation. Nature Communications, 2014, 5, 3832.	5.8	113
70	Weak base pairing in both seed and 3â€² regions reduces RNAi off-targets and enhances si/shRNA designs. Nucleic Acids Research, 2014, 42, 12169-12176.	6.5	27
71	Genome-Scale CRISPR-Mediated Control of Gene Repression and Activation. Cell, 2014, 159, 647-661.	13.5	2,176
72	Functional genomics platform for pooled screening and generation of mammalian genetic interaction maps. Nature Protocols, 2014, 9, 1825-1847.	5.5	79

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73	A Systematic Mammalian Genetic Interaction Map Reveals Pathways Underlying Ricin Susceptibility. Cell, 2013, 152, 909-922.	13.5	332
74	Next-Generation NAMPT Inhibitors Identified by Sequential High-Throughput Phenotypic Chemical and Functional Genomic Screens. Chemistry and Biology, 2013, 20, 1352-1363.	6.2	72
75	Integrated platform for genome-wide screening and construction of high-density genetic interaction maps in mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2317-26.	3.3	121
76	Knocking out the door to tunicamycin entry. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11731-11732.	3.3	32
77	Rapid creation and quantitative monitoring of high coverage shRNA libraries. Nature Methods, 2009, 6, 443-445.	9.0	92
78	Phosphorylation of BCL-2 regulates ER Ca2+ homeostasis and apoptosis. EMBO Journal, 2004, 23, 1207-1216.	3.5	255
79	Spatial Epitope Barcoding Reveals Subclonal Tumor Patch Behaviors. SSRN Electronic Journal, 0, , .	0.4	2