Luke A Gilbert

List of Publications by Year
in descending order

51 papers	20,671 citations	125106 35 h-index	223390 49 g-index
58 all docs	58 docs citations	58 times ranked	25777 citing authors

#	Article	IF	Citations
1	A new era in functional genomics screens. Nature Reviews Genetics, 2022, 23, 89-103.	7.7	104
2	A pan-CRISPR analysis of mammalian cell specificity identifies ultra-compact sgRNA subsets for genome-scale experiments. Nature Communications, 2022, 13, 625.	5.8	2
3	A campaign targeting a conserved Hsp70 binding site uncovers how subcellular localization is linked to distinct biological activities. Cell Chemical Biology, 2022, 29, 1303-1316.e3.	2.5	7
4	Genome-wide programmable transcriptional memory by CRISPR-based epigenome editing. Cell, 2021, 184, 2503-2519.e17.	13.5	312
5	Revealing molecular pathways for cancer cell fitness through a genetic screen of the cancer translatome. Cell Reports, 2021, 35, 109321.	2.9	8
6	An integrated functional and clinical genomics approach reveals genes driving aggressive metastatic prostate cancer. Nature Communications, 2021, 12, 4601.	5.8	18
7	A global cancer data integrator reveals principles of synthetic lethality, sex disparity and immunotherapy. Genome Medicine, 2021, 13, 167.	3.6	0
8	Pharmaceutical-Grade Rigosertib Is a Microtubule-Destabilizing Agent. Molecular Cell, 2020, 79, 191-198.e3.	4.5	22
9	The DNA methylation landscape of advanced prostate cancer. Nature Genetics, 2020, 52, 778-789.	9.4	198
10	Mapping cancer genetics at single-cell resolution. Science Translational Medicine, 2020, 12, .	5.8	3
11	Keap1ing an eye on Slc33A1. Nature Cancer, 2020, 1, 575-576.	5.7	0
12	Clonal ZEB1-Driven Mesenchymal Transition Promotes Targetable Oncologic Antiangiogenic Therapy Resistance. Cancer Research, 2020, 80, 1498-1511.	0.4	35
13	Exploring genetic interaction manifolds constructed from rich single-cell phenotypes. Science, 2019, 365, 786-793.	6.0	155
14	A Bounty of New Challenging Targets in Oncology for Chemical Discovery. Biochemistry, 2019, 58, 3328-3330.	1.2	6
15	DNA-Dependent Protein Kinase Drives Prostate Cancer Progression through Transcriptional Regulation of the Wnt Signaling Pathway. Clinical Cancer Research, 2019, 25, 5608-5622.	3.2	17
16	Lethal clues to cancer-cell vulnerability. Nature, 2019, 568, 463-464.	13.7	5
17	KRAS ^{G12C} inhibition produces a driver-limited state revealing collateral dependencies. Science Signaling, 2019, 12, .	1.6	123
18	Cellular response to small molecules that selectively stall protein synthesis by the ribosome. PLoS Genetics, 2019, 15, e1008057.	1.5	31

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19	Functional Genomics for Cancer Research: Applications In Vivo and In Vitro. Annual Review of Cancer Biology, 2019, 3, 345-363.	2.3	9
20	Combinatorial genetics in liver repopulation and carcinogenesis with a in vivo CRISPR activation platformâ€. Hepatology, 2018, 68, 663-676.	3.6	63
21	The Promise and Challenge of In Vivo Delivery for Genome Therapeutics. ACS Chemical Biology, 2018, 13, 376-382.	1.6	69
22	Exploration of Benzothiazole Rhodacyanines as Allosteric Inhibitors of Proteinâ€“Protein Interactions with Heat Shock Protein 70 (Hsp70). Journal of Medicinal Chemistry, 2018, 61, 6163-6177.	2.9	84
23	Mapping the Genetic Landscape of Human Cells. Cell, 2018, 174, 953-967.e22.	13.5	226
24	Genomic Hallmarks and Structural Variation in Metastatic Prostate Cancer. Cell, 2018, 174, 758-769.e9.	13.5	459
25	A high-throughput screen of real-time ATP levels in individual cells reveals mechanisms of energy failure. PLoS Biology, 2018, 16, e2004624.	2.6	47
26	CRISPRi-based genome-scale identification of functional long noncoding RNA loci in human cells. Science, 2017, 355, .	6.0	566
27	Combined CRISPRi/a-Based Chemical Genetic Screens Reveal that Rigosertib Is a Microtubule-Destabilizing Agent. Molecular Cell, 2017, 68, 210-223.e6.	4.5	197
28	Compact and highly active next-generation libraries for CRISPR-mediated gene repression and activation. ELife, 2016, 5, .	2.8	609
29	A Multiplexed Single-Cell CRISPR Screening Platform Enables Systematic Dissection of the Unfolded Protein Response. Cell, 2016, 167, 1867-1882.e21.	13.5	819
30	A senescence secretory switch mediated by PI3K/AKT/mTOR activation controls chemoprotective endothelial secretory responses. Genes and Development, 2016, 30, 1811-1821.	2.7	119
31	Versatile protein tagging in cells with split fluorescent protein. Nature Communications, 2016, 7, 11046.	5.8	331
32	Ligand-binding domains of nuclear receptors facilitate tight control of split CRISPR activity. Nature Communications, 2016, 7, 12009.	5.8	90
33	Versatile in vivo regulation of tumor phenotypes by dCas9-mediated transcriptional perturbation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3892-900.	3.3	87
34	Parallel shRNA and CRISPR-Cas9 screens enable antiviral drug target identification. Nature Chemical Biology, 2016, 12, 361-366.	3.9	157
35	CRISPR Interference Efficiently Induces Specific and Reversible Gene Silencing in Human iPSCs. Cell Stem Cell, 2016, 18, 541-553.	5.2	418
36	Nucleosomes impede Cas9 access to DNA in vivo and in vitro. ELife, 2016, 5, .	2.8	349

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37	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
38	Engineering Complex Synthetic Transcriptional Programs with CRISPR RNA Scaffolds. Cell, 2015, 160, 339-350.	13.5	809
39	Genome-Scale CRISPR-Mediated Control of Gene Repression and Activation. Cell, 2014, 159, 647-661.	13.5	2,176
40	A Protein-Tagging System for Signal Amplification in Gene Expression and Fluorescence Imaging. Cell, 2014, 159, 635-646.	13.5	1,245
41	CRISPR-Mediated Modular RNA-Guided Regulation of Transcription in Eukaryotes. Cell, 2013, 154, 442-451.	13.5	3,012
42	CRISPR interference (CRISPRi) for sequence-specific control of gene expression. Nature Protocols, 2013, 8, 2180-2196.	5.5	930
43	Dynamic Imaging of Genomic Loci in Living Human Cells by an Optimized CRISPR/Cas System. Cell, 2013, 155, 1479-1491.	13.5	1,695
44	Repurposing CRISPR as an RNA-Guided Platform for Sequence-Specific Control of Gene Expression. Cell, 2013, 152, 1173-1183.	13.5	4,090
45	Defining principles of combination drug mechanisms of action. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E170-9.	3.3	145
46	Context-specific roles for paracrine IL-6 in lymphomagenesis. Genes and Development, 2012, 26, 1758-1768.	2.7	27
47	Chemotherapeutic Resistance: Surviving Stressful Situations. Cancer Research, 2011, 71, 5062-5066.	0.4	49
48	Bcl-2 Family Genetic Profiling Reveals Microenvironment-Specific Determinants of Chemotherapeutic Response. Cancer Research, 2011, 71, 5850-5858.	0.4	15
49	DNA Damage-Mediated Induction of a Chemoresistant Niche. Cell, 2010, 143, 355-366.	13.5	401
50	A Thioredoxin Family Protein of the Apicoplast Periphery Identifies Abundant Candidate Transport Vesicles in Toxoplasma gondii. Eukaryotic Cell, 2008, 7, 1518-1529.	3.4	88
51	Toxoplasma gondii Targets a Protein Phosphatase 2C to the Nuclei of Infected Host Cells. Eukaryotic Cell, 2007, 6, 73-83.	3.4	144