

Martin Kampmann

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.

81
papers

5,533
citations

34
h-index

74
g-index

109
ext. papers

7,688
ext. citations

15.8
avg, IF

6.01
L-index

#	Paper	IF	Citations
81	Genome-Scale CRISPR-Mediated Control of Gene Repression and Activation. <i>Cell</i> , 2014 , 159, 647-61	56.2	1556
80	Compact and highly active next-generation libraries for CRISPR-mediated gene repression and activation. <i>ELife</i> , 2016 , 5,	8.9	343
79	A systematic mammalian genetic interaction map reveals pathways underlying ricin susceptibility. <i>Cell</i> , 2013 , 152, 909-22	56.2	264
78	Targeting the AAA ATPase p97 as an Approach to Treat Cancer through Disruption of Protein Homeostasis. <i>Cancer Cell</i> , 2015 , 28, 653-665	24.3	225
77	Pharmacological dimerization and activation of the exchange factor eIF2B antagonizes the integrated stress response. <i>ELife</i> , 2015 , 4, e07314	8.9	160
76	LRP1 is a master regulator of tau uptake and spread. <i>Nature</i> , 2020 , 580, 381-385	50.4	144
75	CRISPRi and CRISPRa Screens in Mammalian Cells for Precision Biology and Medicine. <i>ACS Chemical Biology</i> , 2018 , 13, 406-416	4.9	136
74	Mapping the Genetic Landscape of Human Cells. <i>Cell</i> , 2018 , 174, 953-967.e22	56.2	136
73	Combined CRISPRi/a-Based Chemical Genetic Screens Reveal that Rigosertib Is a Microtubule-Destabilizing Agent. <i>Molecular Cell</i> , 2017 , 68, 210-223.e6	17.6	127
72	CRISPR Interference-Based Platform for Multimodal Genetic Screens in Human iPSC-Derived Neurons. <i>Neuron</i> , 2019 , 104, 239-255.e12	13.9	127
71	Parallel shRNA and CRISPR-Cas9 screens enable antiviral drug target identification. <i>Nature Chemical Biology</i> , 2016 , 12, 361-6	11.7	123
70	Mitochondrial stress is relayed to the cytosol by an OMA1-DELE1-HRI pathway. <i>Nature</i> , 2020 , 579, 427-432.4	32.4	122
69	The mTOR Complex Controls HIV Latency. <i>Cell Host and Microbe</i> , 2016 , 20, 785-797	23.4	115
68	Tau Internalization is Regulated by 6-O Sulfation on Heparan Sulfate Proteoglycans (HSPGs). <i>Scientific Reports</i> , 2018 , 8, 6382	4.9	104
67	Heterochromatin anomalies and double-stranded RNA accumulation underlie poly(PR) toxicity. <i>Science</i> , 2019 , 363,	33.3	104
66	Three-dimensional structure and flexibility of a membrane-coating module of the nuclear pore complex. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 782-8	17.6	102
65	Integrated platform for genome-wide screening and construction of high-density genetic interaction maps in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2317-26	11.5	90

64	Dual gene activation and knockout screen reveals directional dependencies in genetic networks. <i>Nature Biotechnology</i> , 2018 , 36, 170-178	44.5	87
63	Probing the Global Cellular Responses to Lipotoxicity Caused by Saturated Fatty Acids. <i>Molecular Cell</i> , 2019 , 74, 32-44.e8	17.6	84
62	Genome-wide programmable transcriptional memory by CRISPR-based epigenome editing. <i>Cell</i> , 2021 , 184, 2503-2519.e17	56.2	80
61	Validation of the Hsp70-Bag3 protein-protein interaction as a potential therapeutic target in cancer. <i>Molecular Cancer Therapeutics</i> , 2015 , 14, 642-8	6.1	79
60	The Psychiatric Cell Map Initiative: A Convergent Systems Biological Approach to Illuminating Key Molecular Pathways in Neuropsychiatric Disorders. <i>Cell</i> , 2018 , 174, 505-520	56.2	69
59	Next-generation libraries for robust RNA interference-based genome-wide screens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3384-91	11.5	64
58	Molecular characterization of selectively vulnerable neurons in Alzheimer's disease. <i>Nature Neuroscience</i> , 2021 , 24, 276-287	25.5	64
57	Next-generation NAMPT inhibitors identified by sequential high-throughput phenotypic chemical and functional genomic screens. <i>Chemistry and Biology</i> , 2013 , 20, 1352-63		60
56	Reverse gyrase has heat-protective DNA chaperone activity independent of supercoiling. <i>Nucleic Acids Research</i> , 2004 , 32, 3537-45	20.1	59
55	Functional genomics platform for pooled screening and generation of mammalian genetic interaction maps. <i>Nature Protocols</i> , 2014 , 9, 1825-47	18.8	58
54	Mapping the orientation of nuclear pore proteins in living cells with polarized fluorescence microscopy. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 643-9	17.6	57
53	Paradoxical resistance of multiple myeloma to proteasome inhibitors by decreased levels of 19S proteasomal subunits. <i>ELife</i> , 2015 , 4, e08153	8.9	54
52	Structure of a trimeric nucleoporin complex reveals alternate oligomerization states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17693-8	11.5	52
51	Compromised function of the ESCRT pathway promotes endolysosomal escape of tau seeds and propagation of tau aggregation. <i>Journal of Biological Chemistry</i> , 2019 , 294, 18952-18966	5.4	49
50	Unraveling the mechanism of cell death induced by chemical fibrils. <i>Nature Chemical Biology</i> , 2014 , 10, 969-76	11.7	40
49	Fluorescence anisotropy reveals order and disorder of protein domains in the nuclear pore complex. <i>Biophysical Journal</i> , 2010 , 99, 1706-17	2.9	39
48	CRISPR-based functional genomics for neurological disease. <i>Nature Reviews Neurology</i> , 2020 , 16, 465-480	5	35
47	Suppression of B-cell development genes is key to glucocorticoid efficacy in treatment of acute lymphoblastic leukemia. <i>Blood</i> , 2017 , 129, 3000-3008	2.2	33

46	Ceapins block the unfolded protein response sensor ATF6 β by inducing a neomorphic inter-organelle tether. <i>ELife</i> , 2019 , 8,	8.9	29
45	Gene expression and cell identity controlled by anaphase-promoting complex. <i>Nature</i> , 2020 , 579, 136-146	9.4	29
44	A high-throughput screen of real-time ATP levels in individual cells reveals mechanisms of energy failure. <i>PLoS Biology</i> , 2018 , 16, e2004624	9.7	28
43	A Comprehensive Resource for Induced Pluripotent Stem Cells from Patients with Primary Tauopathies. <i>Stem Cell Reports</i> , 2019 , 13, 939-955	8	28
42	Obstacle bypass in protein motion along DNA by two-dimensional rather than one-dimensional sliding. <i>Journal of Biological Chemistry</i> , 2004 , 279, 38715-20	5.4	28
41	Deep mutational scanning reveals the structural basis for β synuclein activity. <i>Nature Chemical Biology</i> , 2020 , 16, 653-659	11.7	27
40	Genome-wide CRISPRi/a screens in human neurons link lysosomal failure to ferroptosis. <i>Nature Neuroscience</i> , 2021 , 24, 1020-1034	25.5	25
39	Conserved spatial organization of FG domains in the nuclear pore complex. <i>Biophysical Journal</i> , 2013 , 104, 37-50	2.9	24
38	A CRISPR Approach to Neurodegenerative Diseases. <i>Trends in Molecular Medicine</i> , 2017 , 23, 483-485	11.5	21
37	Elucidating drug targets and mechanisms of action by genetic screens in mammalian cells. <i>Chemical Communications</i> , 2017 , 53, 7162-7167	5.8	20
36	Relapse-associated AURKB blunts the glucocorticoid sensitivity of B cell acute lymphoblastic leukemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3052-3061	11.5	20
35	Knocking out the door to tunicamycin entry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11731-2	11.5	20
34	Facilitated diffusion in chromatin lattices: mechanistic diversity and regulatory potential. <i>Molecular Microbiology</i> , 2005 , 57, 889-99	4.1	20
33	Image-based pooled whole-genome CRISPRi screening for subcellular phenotypes. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	18
32	Weak base pairing in both seed and 3' regions reduces RNAi off-targets and enhances si/shRNA designs. <i>Nucleic Acids Research</i> , 2014 , 42, 12169-76	20.1	17
31	CRISPR-based screens uncover determinants of immunotherapy response in multiple myeloma. <i>Blood Advances</i> , 2020 , 4, 2899-2911	7.8	13
30	CRISPulator: a discrete simulation tool for pooled genetic screens. <i>BMC Bioinformatics</i> , 2017 , 18, 347	3.6	11
29	Use of RNA tertiary interaction modules for the crystallisation of the spliceosomal snRNP core domain. <i>Journal of Molecular Biology</i> , 2010 , 402, 154-64	6.5	11

28	Extending chemical perturbations of the ubiquitin fitness landscape in a classroom setting reveals new constraints on sequence tolerance. <i>Biology Open</i> , 2018 , 7,	2.2	11
27	Genome-wide CRISPRi/a screens in human neurons link lysosomal failure to ferroptosis		8
26	Genome-wide CRISPRi screening identifies OCIAD1 as a prohibitin client and regulatory determinant of mitochondrial Complex III assembly in human cells. <i>ELife</i> , 2021 , 10,	8.9	8
25	CRISPR-based genetic interaction maps inform therapeutic strategies in cancer. <i>Translational Cancer Research</i> , 2018 , 7, S61-S67	0.3	7
24	Pharmaceutical-Grade Rigosertib Is a Microtubule-Destabilizing Agent. <i>Molecular Cell</i> , 2020 , 79, 191-198	1.36	7
23	BRD2 inhibition blocks SARS-CoV-2 infection by reducing transcription of the host cell receptor ACE2.. <i>Nature Cell Biology</i> , 2022 , 24, 24-34	23.4	5
22	CRISPR interference-based platform for multimodal genetic screens in human iPSC-derived neurons		5
21	BRD2 inhibition blocks SARS-CoV-2 infection in vitro by reducing transcription of the host cell receptor ACE2 2021 ,		5
20	Biochemistry. Nascent proteins caught in the act. <i>Science</i> , 2009 , 326, 1352-3	33.3	4
19	Molecular characterization of selectively vulnerable neurons in Alzheimer's Disease		4
18	NudC guides client transfer between the Hsp40/70 and Hsp90 chaperone systems.. <i>Molecular Cell</i> , 2022 ,	17.6	3
17	Author response: Compact and highly active next-generation libraries for CRISPR-mediated gene repression and activation 2016 ,		3
16	Decoding directional genetic dependencies through orthogonal CRISPR/Cas screens		3
15	Mitochondrial dysfunction is signaled to the integrated stress response by OMA1, DELE1 and HRI		3
14	A high-throughput CRISPR interference screen for dissecting functional regulators of GPCR/cAMP signaling. <i>PLoS Genetics</i> , 2020 , 16, e1009103	6	3
13	Robust Sequence Determinants of β Synuclein Toxicity in Yeast Implicate Membrane Binding. <i>ACS Chemical Biology</i> , 2020 , 15, 2137-2153	4.9	3
12	Defining the ATPome reveals cross-optimization of metabolic pathways. <i>Nature Communications</i> , 2020 , 11, 4319	17.4	3
11	Patterns of neuronal Rhes as a novel hallmark of tauopathies. <i>Acta Neuropathologica</i> , 2021 , 141, 651-666	4.3	3

10	CRISPRi screens in human astrocytes elucidate regulators of distinct inflammatory reactive states		3
9	A CRISPRi/a platform in iPSC-derived microglia uncovers regulators of disease states		2
8	CRISPR-based screens uncover determinants of immunotherapy response in Multiple Myeloma		1
7	Image-based pooled whole genome CRISPR screening for Parkin and TFEB subcellular localization		1
6	Compromised function of the ESCRT pathway promotes endolysosomal escape of tau seeds and propagation of tau aggregation		1
5	CRISPulator: a discrete simulation tool for pooled genetic screens		1
4	Functional genomics screen identifies proteostasis targets that modulate prion protein (PrP) stability. <i>Cell Stress and Chaperones</i> , 2021 , 26, 443-452	4	1
3	Functional Multi-Omics Reveals Genetic and Pharmacologic Regulation of Surface CD38 in Multiple Myeloma. <i>Blood</i> , 2021 , 138, 2648-2648		2.2
2	Pre-Clinical Activity of the Novel, First-in-Class p97 Inhibitor, CB-5083, in Multiple Myeloma. <i>Blood</i> , 2014 , 124, 4701-4701		2.2
1	CRISPR-Based Screening for Stress Response Factors in Mammalian Cells.. <i>Methods in Molecular Biology</i> , 2022 , 2428, 19-40		1.4