Chase Beisel

List of Publications by Citations

Source: https://exaly.com/author-pdf/7492419/chase-beisel-publications-by-citations.pdf
Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	3,315 citations	30 h-index	57 g-index
88 ext. papers	4,241 ext. citations	11.6 avg, IF	5.96 L-index

#	Paper	IF	Citations
74	Self-assembled DNA nanoclews for the efficient delivery of CRISPR-Cas9 for genome editing. *Angewandte Chemie - International Edition*, **2015**, 54, 12029-33	16.4	393
73	Programmable removal of bacterial strains by use of genome-targeting CRISPR-Cas systems. *MBio*, **2014**, 5, e00928-13	7.8	236
72	Base pairing small RNAs and their roles in global regulatory networks. *FEMS Microbiology Reviews*, **2010**, 34, 866-82	15.1	219
71	Identifying and Visualizing Functional PAM Diversity across CRISPR-Cas Systems. *Molecular Cell*, **2016**, 62, 137-47	17.6	206
70	Guide RNA functional modules direct Cas9 activity and orthogonality. *Molecular Cell*, **2014**, 56, 333-339	17.6	174
69	The base-pairing RNA spot 42 participates in a multioutput feedforward loop to help enact catabolite repression in Escherichia coli. *Molecular Cell*, **2011**, 41, 286-97	17.6	158
68	Repurposing endogenous type I CRISPR-Cas systems for programmable gene repression. *Nucleic Acids Research*, **2015**, 43, 674-81	20.1	153
67	Rapid and Scalable Characterization of CRISPR Technologies Using an E.□coli Cell-Free Transcription-Translation System. *Molecular Cell*, **2018**, 69, 146-157.e3	17.6	117
66	Model-guided design of ligand-regulated RNAi for programmable control of gene expression. *Molecular Systems Biology*, **2008**, 4, 224	12.2	101
65	Design principles for riboswitch function. *PLoS Computational Biology*, **2009**, 5, e1000363	5	100
64	Design of small molecule-responsive microRNAs based on structural requirements for Drosha processing. *Nucleic Acids Research*, **2011**, 39, 2981-94	20.1	100
63	Deciphering, Communicating, and Engineering the CRISPR PAM. *Journal of Molecular Biology*, **2017**, 429, 177-191	6.5	99
62	CRISPR RNA-Dependent Binding and Cleavage of Endogenous RNAs by the Campylobacter jejuni Cas9. *Molecular Cell*, **2018**, 69, 893-905.e7	17.6	85
61	Multiple factors dictate target selection by Hfq-binding small RNAs. *EMBO Journal*, **2012**, 31, 1961-74	13	83
60	Current and future prospects for CRISPR-based tools in bacteria. *Biotechnology and Bioengineering*, **2016**, 113, 930-43	4.9	79
59	Short DNA containing □sites enhances DNA stability and gene expression in E. coli cell-free transcription-translation systems. *Biotechnology and Bioengineering*, **2017**, 114, 2137-2141	4.9	59
58	Synthetic Biology Approaches to Engineer Probiotics and Members of the Human Microbiota for Biomedical Applications. *Annual Review of Biomedical Engineering*, **2018**, 20, 277-300	12	56

57	Bacterial Adaptation to the Host's Diet Is a Key Evolutionary Force Shaping Drosophila-Lactobacillus Symbiosis. *Cell Host and Microbe*, **2018**, 24, 109-119.e6	23.4	53
56	Genome Editing with CRISPR-Cas9 in Lactobacillus plantarum Revealed That Editing Outcomes Can Vary Across Strains and Between Methods. *Biotechnology Journal*, **2019**, 14, e1700583	5.6	50
55	Barriers to genome editing with CRISPR in bacteria. *Journal of Industrial Microbiology and Biotechnology*, **2019**, 46, 1327-1341	4.2	46
54	A CRISPR design for next-generation antimicrobials. *Genome Biology*, **2014**, 15, 516	18.3	43
53	CRISPR technologies and the search for the PAM-free nuclease. *Nature Communications*, **2021**, 12, 555	17.4	43
52	Bacterial sugar utilization gives rise to distinct single-cell behaviours. *Molecular Microbiology*, **2014**, 93, 1093-1103	4.1	42
51	Synthetic control of a fitness tradeoff in yeast nitrogen metabolism. *Journal of Biological Engineering*, **2009**, 3, 1	6.3	41
50	Cochlear whole mount in situ hybridization: identification of longitudinal and radial gradients. *Brain Research Protocols*, **2002**, 9, 65-76		38
49	CRISPR-Cas Systems and the Paradox of Self-Targeting Spacers. *Frontiers in Microbiology*, **2019**, 10, 3078	5.7	37
48	Modular one-pot assembly of CRISPR arrays enables library generation and reveals factors influencing crRNA biogenesis. *Nature Communications*, **2019**, 10, 2948	17.4	37
47	Targeted transcriptional modulation with type I CRISPR-Cas systems in human cells. *Nature Biotechnology*, **2019**, 37, 1493-1501	44.5	37
46	The CRISPR RNA-guided surveillance complex in Escherichia coli accommodates extended RNA spacers. *Nucleic Acids Research*, **2016**, 44, 7385-94	20.1	36
45	Noncanonical crRNAs derived from host transcripts enable multiplexable RNA detection by Cas9. *Science*, **2021**, 372, 941-948	33.3	30
44	Mathematical Modeling of RNA-Based Architectures for Closed Loop Control of Gene Expression. *ACS Synthetic Biology*, **2018**, 7, 1219-1228	5.7	29
43	Toward a genetic tool development pipeline for host-associated bacteria. *Current Opinion in Microbiology*, **2017**, 38, 156-164	7.9	26
42	Characterization of the all-E. coli transcription-translation system myTXTL by mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2019**, 33, 1036-1048	2.2	24
41	Competitive Exclusion Is a Major Bioprotective Mechanism of Lactobacilli against Fungal Spoilage in Fermented Milk Products. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	24
40	Understanding and exploiting feedback in synthetic biology. *Chemical Engineering Science*, **2013**, 103, 79-90	4.4	22

39	Distinct timescales of RNA regulators enable the construction of a genetic pulse generator. *Biotechnology and Bioengineering*, **2019**, 116, 1139-1151	4.9	22
38	A detailed cell-free transcription-translation-based assay to decipher CRISPR protospacer-adjacent motifs. *Methods*, **2018**, 143, 48-57	4.6	21
37	Discriminating tastes: physiological contributions of the Hfq-binding small RNA Spot 42 to catabolite repression. *RNA Biology*, **2011**, 8, 766-70	4.8	21
36	Rethinking the Hierarchy of Sugar Utilization in Bacteria. *Journal of Bacteriology*, **2016**, 198, 374-6	3.5	19
35	Advancing the design and delivery of CRISPR antimicrobials. *Current Opinion in Biomedical Engineering*, **2017**, 4, 57-64	4.4	16
34	An educational module to explore CRISPR technologies with a cell-free transcription-translation system. *Synthetic Biology*, **2019**, 4, ysz005	3.3	15
33	The Francisella novicida Cas12a is sensitive to the structure downstream of the terminal repeat in CRISPR arrays. *RNA Biology*, **2019**, 16, 404-412	4.8	13
32	Characterization of Cas12a nucleases reveals diverse PAM profiles between closely-related orthologs. *Nucleic Acids Research*, **2020**, 48, 5624-5638	20.1	11
31	Trade-offs in engineering sugar utilization pathways for titratable control. *ACS Synthetic Biology*, **2015**, 4, 141-9	5.7	11
30	An enhanced assay to characterize anti-CRISPR proteins using a cell-free transcription-translation system. *Methods*, **2020**, 172, 42-50	4.6	10
29	Biomanufacturing of Small Molecules in the Mammalian Gut by Probiotic. *ACS Synthetic Biology*, **2021**, 10, 1039-1052	5.7	9
28	A positive, growth-based PAM screen identifies noncanonical motifs recognized by the Cas9. *Science Advances*, **2020**, 6, eabb4054	14.3	8
27	The Acidaminococcus sp. Cas12a nuclease recognizes GTTV and GCTV as non-canonical PAMs. *FEMS Microbiology Letters*, **2019**, 366,	2.9	7
26	Sequence-independent RNA sensing and DNA targeting by a split domain CRISPR-Cas12a gRNA switch. *Nucleic Acids Research*, **2021**, 49, 2985-2999	20.1	7
25	The tracrRNA in CRISPR Biology and Technologies. *Annual Review of Genetics*, **2021**, 55, 161-181	14.5	7
24	A genetically encoded anti-CRISPR protein constrains gene drive spread and prevents population suppression. *Nature Communications*, **2021**, 12, 3977	17.4	6
23	Rapid and scalable characterization of CRISPR technologies using an E. coli cell-free transcription-translation system		5
22	One-step assembly of large CRISPR arrays enables multi-functional targeting and reveals constraints on array design		5

21	Construction of ligand-responsive microRNAs that operate through inhibition of Drosha processing. *Methods in Molecular Biology*, **2014**, 1111, 259-67	1.4	4
20	Conformational analysis of gossypol and its derivatives by molecular mechanics. *Computational and Theoretical Chemistry*, **2005**, 730, 51-58		3
19	Tunable self-cleaving ribozymes for modulating gene expression in eukaryotic systems. *PLoS ONE*, **2020**, 15, e0232046	3.7	2
18	Bacterial adaptation to diet is a key evolutionary force shaping Drosophila-Lactobacillus symbiosis		2
17	Rapid Testing of CRISPR Nucleases and Guide RNAs in an Cell-Free Transcription-Translation System. *STAR Protocols*, **2020**, 1, 100003	1.4	2
16	Coupling smartphone and CRISPR Cas12a for digital and multiplexed nucleic acid detection. *AICHE Journal*,e17365	3.6	2
15	Rapid cell-free characterization of multi-subunit CRISPR effectors and transposons		1
14	Distinct timescales of RNA regulators enable the construction of a genetic pulse generator		1
13	Establishing Probiotic Saccharomyces boulardii as a Model Organism for Synthesis and Delivery of Biomolecules		1
12	Streamlined, recombinase-free genome editing with CRISPR-Cas9 inLactobacillus plantarumreveals barriers to efficient editing		1
11	CRISPR transposons on the move. *Cell Host and Microbe*, **2021**, 29, 675-677	23.4	1
10	CRATES: A one-step assembly method for Class 2 CRISPR arrays. *Methods in Enzymology*, **2019**, 629, 493-511	1.7	1
9	A TXTL-Based Assay to Rapidly Identify PAMs for CRISPR-Cas Systems with Multi-Protein Effector Complexes.. *Methods in Molecular Biology*, **2022**, 2433, 391-411	1.4	0
8	Rapidly Characterizing CRISPR-Cas13 Nucleases Using Cell-Free Transcription-Translation Systems. *Methods in Molecular Biology*, **2022**, 2404, 135-153	1.4	0
7	Illuminating the path to DNA repair. *Cell*, **2021**, 184, 5503-5505	56.2	0
6	Beneficial commensal bacteria promote Drosophila growth by down-regulating the expression of peptidoglycan recognition proteins. *IScience*, **2022**, 104357	6.1	0
5	Genome Editing with Cas9 in Lactobacilli.. *Methods in Molecular Biology*, **2022**, 2479, 245-261	1.4	0
4	Impact of Residual Inducer on Titratable Expression Systems. *PLoS ONE*, **2015**, 10, e0137421	3.7	

3	Your Base Editor Might Be Flirting with Single (Stranded) DNA: Faithful On-Target CRISPR Base Editing without Promiscuous Deamination. *Molecular Cell*, **2020**, 79, 703-704	17.6
2	CRISPR memories in single cells.. *Molecular Systems Biology*, **2022**, 18, e11011	12.2
1	Reprogramming TracrRNAs for Multiplexed RNA Detection. *Methods in Molecular Biology*, **2022**, 217-235	1.4