

# CRISPR-Cas12a/Cpf1-assisted precise, efficient and multipolytica

Metabolic Engineering Communications

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Debottlenecking mevalonate pathway for antimalarial drug precursor amorphaadiene biosynthesis in <i>Yarrowia lipolytica</i> . <i>Metabolic Engineering Communications</i> , 2020, 10, e00121.	1.9	66
2	Genome editing systems across yeast species. <i>Current Opinion in Biotechnology</i> , 2020, 66, 255-266.	3.3	15
3	Genome Editing by CRISPR-Cas: A Game Change in the Genetic Manipulation of <i>Chlamydomonas</i> . <i>Life</i> , 2020, 10, 295.	1.1	29
4	Genetic and bioprocess engineering to improve squalene production in <i>Yarrowia lipolytica</i> . <i>Bioresource Technology</i> , 2020, 317, 123991.	4.8	65
5	Characterization of Met25 as a color associated genetic marker in <i>Yarrowia lipolytica</i> . <i>Metabolic Engineering Communications</i> , 2020, 11, e00147.	1.9	6
6	Production of plant natural products through engineered <i>Yarrowia lipolytica</i> . <i>Biotechnology Advances</i> , 2020, 43, 107555.	6.0	62
7	Development and Application of CRISPR/Cas in Microbial Biotechnology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 711.	2.0	37
8	Development of a DNA double-strand break-free base editing tool in <i>Corynebacterium glutamicum</i> for genome editing and metabolic engineering. <i>Metabolic Engineering Communications</i> , 2020, 11, e00135.	1.9	9
9	Guide RNA Engineering Enables Dual Purpose CRISPR-Cpf1 for Simultaneous Gene Editing and Gene Regulation in <i>Yarrowia lipolytica</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 967-971.	1.9	26
10	Refactoring Ehrlich Pathway for High-Yield 2-Phenylethanol Production in <i>Yarrowia lipolytica</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 623-633.	1.9	55
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12	Synthetic biology, systems biology, and metabolic engineering of <i>Yarrowia lipolytica</i> toward a sustainable biorefinery platform. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 845-862.	1.4	53
13	Efficient targeted mutation of genomic essential genes in yeast <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 3037-3047.	1.7	14
14	An artificial chromosome <i>ylAC</i> enables efficient assembly of multiple genes in <i>Yarrowia lipolytica</i> for biomanufacturing. <i>Communications Biology</i> , 2020, 3, 199.	2.0	21
15	Biotechnological Production of Flavonoids: An Update on Plant Metabolic Engineering, Microbial Host Selection, and Genetically Encoded Biosensors. <i>Biotechnology Journal</i> , 2020, 15, e1900432.	1.8	35
16	CRISPR/Cas genome editing to optimize pharmacologically active plant natural products. <i>Pharmacological Research</i> , 2021, 164, 105359.	3.1	20
17	CRISPR-based metabolic pathway engineering. <i>Metabolic Engineering</i> , 2021, 63, 148-159.	3.6	24
18	Lipid production by oleaginous yeasts. <i>Advances in Applied Microbiology</i> , 2021, 116, 1-98.	1.3	14

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19	Synthetic biology is essential to unlock commercial biofuel production through hyper lipid-producing microalgae: a review. <i>Applied Phycology</i> , 2021, 2, 41-59.	0.6	6
20	<i>Yarrowia lipolytica</i> engineering as a source of microbial cell factories. , 2021, , 345-380.		3
21	Implementing CRISPR-Cas12a for Efficient Genome Editing in <i>Yarrowia lipolytica</i> . <i>Methods in Molecular Biology</i> , 2021, 2307, 111-121.	0.4	4
22	<i>Yarrowia lipolytica</i> : a multitasking yeast species of ecological significance. <i>FEMS Yeast Research</i> , 2021, 21, .	1.1	27
23	Advanced Strategies for the Synthesis of Terpenoids in <i>Yarrowia lipolytica</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 2367-2381.	2.4	41
24	Recent advances in lipid metabolic engineering of oleaginous yeasts. <i>Biotechnology Advances</i> , 2021, 53, 107722.	6.0	40
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26	A CRISPR/Cas9-Mediated, Homology-Independent Tool Developed for Targeted Genome Integration in <i>Yarrowia lipolytica</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	27
27	Recent advances in systems and synthetic biology approaches for developing novel cell-factories in non-conventional yeasts. <i>Biotechnology Advances</i> , 2021, 47, 107695.	6.0	93
28	Identification and Characterization of the Mitochondrial Replication Origin for Stable and Episomal Expression in <i>Yarrowia lipolytica</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 826-835.	1.9	11
29	Discrimination of single-point mutations in unamplified genomic DNA via Cas9 immobilized on a graphene field-effect transistor. <i>Nature Biomedical Engineering</i> , 2021, 5, 713-725.	11.6	77
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33	Exosome/Liposome-like Nanoparticles: New Carriers for CRISPR Genome Editing in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7456.	1.8	37
34	<i>Yarrowia lipolytica</i> Strains and Their Biotechnological Applications: How Natural Biodiversity and Metabolic Engineering Could Contribute to Cell Factories Improvement. <i>Journal of Fungi (Basel)</i> , 2021, 7, 10784314. <a href="#">Open Access</a>	0.784314	6
35	Combining tag-specific primer extension and magneto-DNA system for Cas14a-based universal bacterial diagnostic platform. <i>Biosensors and Bioelectronics</i> , 2021, 185, 113262.	5.3	40
36	Biodiesel Production From Lignocellulosic Biomass Using Oleaginous Microbes: Prospects for Integrated Biofuel Production. <i>Frontiers in Microbiology</i> , 2021, 12, 658284.	1.5	56

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38	CRISPR-based tools for microbial cell factories. , 2021, , 95-113.		0
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44	Microbial hosts for metabolic engineering of lignin bioconversion to renewable chemicals. Renewable and Sustainable Energy Reviews, 2021, 152, 111674.	8.2	22
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51	Strategies to overcome the main challenges of the use of CRISPR/Cas9 as a replacement for cancer therapy. Molecular Cancer, 2022, 21, 64.	7.9	45
52	CRISPR-based metabolic engineering in non-model microorganisms. Current Opinion in Biotechnology, 2022, 75, 102698.	3.3	21
53	Applications of CRISPR/Cas gene-editing technology in yeast and fungi. Archives of Microbiology, 2022, 204, 79.	1.0	11
54	Combining CRISPR-Cpf1 and Recombineering Facilitates Fast and Efficient Genome Editing in <i>Escherichia coli</i> . ACS Synthetic Biology, 2022, 11, 1897-1907.	1.9	17
55	Advances in synthetic biology tools paving the way for the biomanufacturing of unusual fatty acids using the <i>Yarrowia lipolytica</i> chassis. Biotechnology Advances, 2022, 59, 107984.	6.0	22
56	Recent advances in genetic technology development of oleaginous yeasts. Applied Microbiology and Biotechnology, 2022, 106, 5385-5397.	1.7	4
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60	Modular co-culture engineering of <i>Yarrowia lipolytica</i> for amorphadiene biosynthesis. <i>Microbial Cell Factories</i> , 2022, 21, .	1.9	3
61	Recent Advances in CRISPR-Cas Technologies for Synthetic Biology. <i>Journal of Microbiology</i> , 2023, 61, 13-36.	1.3	4
63	Metabolic Engineering of <i>Yarrowia lipolytica</i> for Terpenoid Production: Tools and Strategies. <i>ACS Synthetic Biology</i> , 2023, 12, 639-656.	1.9	12
64	A review of synthetic biology tools in <i>Yarrowia lipolytica</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2023, 39, .	1.7	4
65	Application of Adaptive Laboratory Evolution in Lipid and Terpenoid Production in Yeast and Microalgae. <i>ACS Synthetic Biology</i> , 2023, 12, 1396-1407.	1.9	3
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