

Coupling metabolic addiction with negative autoregulation to improve pathway yield

Metabolic Engineering

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Mathematical modeling for the design of evolution experiments to study the genetic instability of metabolically engineered photosynthetic microorganisms. <i>Algal Research</i> , 2020, 52, 102093.	2.4	1
2	De novo production of resveratrol from glycerol by engineering different metabolic pathways in <i>Yarrowia lipolytica</i> . <i>Metabolic Engineering Communications</i> , 2020, 11, e00146.	1.9	16
3	Mitigation of host cell mutations and regime shift during microbial fermentation: a perspective from flux memory. <i>Current Opinion in Biotechnology</i> , 2020, 66, 227-235.	3.3	6
4	Engineering the oleaginous yeast <i>Yarrowia lipolytica</i> for high-level resveratrol production. <i>Metabolic Engineering</i> , 2020, 62, 51-61.	3.6	74
5	Unstructured kinetic models to simulate an arabinose switch that decouples cell growth from metabolite production. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 222-229.	1.8	4
6	Recent advances in improving metabolic robustness of microbial cell factories. <i>Current Opinion in Biotechnology</i> , 2020, 66, 69-77.	3.3	28
7	A roadmap to engineering antiviral natural products synthesis in microbes. <i>Current Opinion in Biotechnology</i> , 2020, 66, 140-149.	3.3	22
8	The future of self-selecting and stable fermentations. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 993-1004.	1.4	18
9	Control strategies to manage trade-offs during microbial production. <i>Current Opinion in Biotechnology</i> , 2020, 66, 158-164.	3.3	15
10	Engineering <i>Yarrowia lipolytica</i> as a Chassis for De Novo Synthesis of Five Aromatic-Derived Natural Products and Chemicals. <i>ACS Synthetic Biology</i> , 2020, 9, 2096-2106.	1.9	59
11	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
12	Recent advances in microbial production of phenolic compounds. <i>Chinese Journal of Chemical Engineering</i> , 2021, 30, 54-61.	1.7	8
13	Dynamic control in metabolic engineering: Theories, tools, and applications. <i>Metabolic Engineering</i> , 2021, 63, 126-140.	3.6	93
14	Short and long-read ultra-deep sequencing profiles emerging heterogeneity across five platform <i>Escherichia coli</i> strains. <i>Metabolic Engineering</i> , 2021, 65, 197-206.	3.6	13
15	CRISPR-based metabolic pathway engineering. <i>Metabolic Engineering</i> , 2021, 63, 148-159.	3.6	24
16	Dynamics of microbial competition, commensalism, and cooperation and its implications for coculture and microbiome engineering. <i>Biotechnology and Bioengineering</i> , 2021, 118, 199-209.	1.7	25
17	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
18	Optimization of Light and Nutrients Supply to Stabilize Long-Term Industrial Cultivation of Metabolically Engineered Cyanobacteria: A Model-Based Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10455-10465.	1.8	1

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19	Transcription Factor-Based Biosensor for Dynamic Control in Yeast for Natural Product Synthesis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 635265.	2.0	9
20	Editorial: Physiology, Application, and Bioengineering of Oleaginous Microorganisms. <i>Frontiers in Microbiology</i> , 2021, 12, 650957.	1.5	3
21	Metabolic engineering of <i>Yarrowia lipolytica</i> for terpenoids production: advances and perspectives. <i>Critical Reviews in Biotechnology</i> , 2021, , 1-16.	5.1	26
22	A dynamic and multilocus metabolic regulation strategy using quorum-sensing-controlled bacterial small RNA. <i>Cell Reports</i> , 2021, 36, 109413.	2.9	8
23	Inducible Population Quality Control of Engineered <i>Bacillus subtilis</i> for Improved <i>N</i> -Acetylneuraminic Acid Biosynthesis. <i>ACS Synthetic Biology</i> , 2021, 10, 2197-2209.	1.9	7
24	Biodiesel Production From Lignocellulosic Biomass Using Oleaginous Microbes: Prospects for Integrated Biofuel Production. <i>Frontiers in Microbiology</i> , 2021, 12, 658284.	1.5	56
25	Microbial production of chemicals driven by CRISPR-Cas systems. <i>Current Opinion in Biotechnology</i> , 2022, 73, 34-42.	3.3	16
27	Fermentation and Metabolic Pathway Optimization to De Novo Synthesize (2S)-Naringenin in <i>Escherichia coli</i> . <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 1574-1582.	0.9	31
28	Exploring Selective Pressure Trade-Offs for Synthetic Addiction to Extend Metabolite Productive Lifetimes in Yeast. <i>ACS Synthetic Biology</i> , 2021, 10, 2842-2849.	1.9	4
29	Advances and Opportunities of CRISPR/Cas Technology in Bioengineering Non-conventional Yeasts. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 765396.	2.0	13
31	High efficient production of plant flavonoids by microbial cell factories: Challenges and opportunities. <i>Metabolic Engineering</i> , 2022, 70, 143-154.	3.6	34
32	Biosensor-enabled pathway optimization in metabolic engineering. <i>Current Opinion in Biotechnology</i> , 2022, 75, 102696.	3.3	25
33	Mining and design of biosensors for engineering microbial cell factory. <i>Current Opinion in Biotechnology</i> , 2022, 75, 102694.	3.3	16
34	Engineering eukaryote-like regulatory circuits to expand artificial control mechanisms for metabolic engineering in <i>Saccharomyces cerevisiae</i> . <i>Communications Biology</i> , 2022, 5, 135.	2.0	12
35	Recent advances in construction and regulation of yeast cell factories. <i>World Journal of Microbiology and Biotechnology</i> , 2022, 38, 57.	1.7	10
36	CRISPR-based metabolic engineering in non-model microorganisms. <i>Current Opinion in Biotechnology</i> , 2022, 75, 102698.	3.3	21
37	Modular engineering of <i>E. coli</i> coculture for efficient production of resveratrol from glucose and arabinose mixture. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 718-729.	1.8	13
38	Coupling cell growth and biochemical pathway induction in <i>Saccharomyces cerevisiae</i> for production of (+)-valencene and its chemical conversion to (+)-nootkatone. <i>Metabolic Engineering</i> , 2022, 72, 107-115.	3.6	22

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39	Intracellular biosensor-based dynamic regulation to manipulate gene expression at the spatiotemporal level. <i>Critical Reviews in Biotechnology</i> , 2023, 43, 646-663.	5.1	6
41	Systems Metabolic Engineering of <i>Escherichia coli</i> Coculture for <i>De Novo</i> Production of Genistein. <i>ACS Synthetic Biology</i> , 2022, 11, 1746-1757.	1.9	19
42	New synthetic biology tools for metabolic control. <i>Current Opinion in Biotechnology</i> , 2022, 76, 102724.	3.3	21
43	Metabolic engineering: tools for pathway rewiring and value creation. , 2022, , 3-26.		0
44	Metabolic engineering of <i>Yarrowia lipolytica</i> for scutellarin production. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 958-964.	1.8	12
45	Advances in synthetic biology tools paving the way for the biomanufacturing of unusual fatty acids using the <i>Yarrowia lipolytica</i> chassis. <i>Biotechnology Advances</i> , 2022, 59, 107984.	6.0	22
47	Plant Flavonoid Production in Bacteria and Yeasts. <i>Frontiers in Chemical Engineering</i> , 0, 4, .	1.3	2
48	Advances and prospects of transcription-factor-based biosensors in high-throughput screening for cell factories construction. , 2022, 1, 135-147.		3
49	Microbial cell factories for the production of flavonoids—barriers and opportunities. <i>Bioresource Technology</i> , 2022, 360, 127538.	4.8	17
51	Engineered biosynthesis of plant polyketides by type III polyketide synthases in microorganisms. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	0
52	Recent advances and perspectives on production of value-added organic acids through metabolic engineering. <i>Biotechnology Advances</i> , 2023, 62, 108076.	6.0	17
53	Characterization of the endogenous promoters in <i>Yarrowia lipolytica</i> for the biomanufacturing applications. <i>Process Biochemistry</i> , 2023, 124, 245-252.	1.8	5
54	Knocking out central metabolism genes to identify new targets and alternating substrates to improve lipid synthesis in <i>Y. lipolytica</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	2.0	1
55	Biomolecular feedback controllers: from theory to applications. <i>Current Opinion in Biotechnology</i> , 2023, 79, 102882.	3.3	12
56	Programmable synthetic biology tools for developing microbial cell factories. <i>Current Opinion in Biotechnology</i> , 2023, 79, 102874.	3.3	8
57	Stability, robustness, and containment: preparing synthetic biology for real-world deployment. <i>Current Opinion in Biotechnology</i> , 2023, 79, 102880.	3.3	13
58	Prenylation: A Critical Step for Biomanufacturing of Prenylated Aromatic Natural Products. <i>Journal of Agricultural and Food Chemistry</i> , 2023, 71, 2211-2233.	2.4	7
70	Genome Editing Tool CRISPR-Cas: Legal and Ethical Considerations for Life Science. , 2024, , 839-864.		0