

From zero to hero – Design-based systems metabolic engineering of *Escherichia coli* for l-lysine production

Metabolic Engineering

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Metabolic engineering is key to a sustainable chemical industry. <i>Natural Product Reports</i> , 2011, 28, 1406.	5.2	28
3	Flux-Balance Modeling of Plant Metabolism. <i>Frontiers in Plant Science</i> , 2011, 2, 38.	1.7	124
4	Metabolic engineering of cellular transport for overproduction of the platform chemical 1,5-diaminopentane in <i>Corynebacterium glutamicum</i> . <i>Metabolic Engineering</i> , 2011, 13, 617-627.	3.6	135
5	Tools for genetic manipulations in <i>Corynebacterium glutamicum</i> and their applications. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1641-1654.	1.7	77
8	Analysis of <i>Corynebacterium glutamicum</i> Promoters and Their Applications. <i>Sub-Cellular Biochemistry</i> , 2012, 64, 203-221.	1.0	4
9	Expanding the chemical palate of cells by combining systems biology and metabolic engineering. <i>Metabolic Engineering</i> , 2012, 14, 289-297.	3.6	131
10	A high-throughput approach to identify genomic variants of bacterial metabolite producers at the single-cell level. <i>Genome Biology</i> , 2012, 13, R40.	13.9	223
11	Substitution of crystalline-lysine with lysine enriched fermentation broth in feed and effect on the performance of broiler chicks. <i>Journal of Applied Animal Research</i> , 2012, 40, 118-123.	0.4	3
12	METABOLIC MODELLING IN THE DEVELOPMENT OF CELL FACTORIES BY SYNTHETIC BIOLOGY. <i>Computational and Structural Biotechnology Journal</i> , 2012, 3, e201210009.	1.9	19
13	Genetic and biochemical characterization of <i>Corynebacterium glutamicum</i> ATP phosphoribosyltransferase and its three mutants resistant to feedback inhibition by histidine. <i>Biochimie</i> , 2012, 94, 829-838.	1.3	25
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15	Design and testing of a synthetic biology framework for genetic engineering of <i>Corynebacterium glutamicum</i> . <i>Microbial Cell Factories</i> , 2012, 11, 147.	1.9	38
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17	Postgenomic Approaches to Using <i>Corynebacteria</i> as Biocatalysts. <i>Annual Review of Microbiology</i> , 2012, 66, 521-550.	2.9	46
18	Bio-based production of chemicals, materials and fuels – <i>Corynebacterium glutamicum</i> as versatile cell factory. <i>Current Opinion in Biotechnology</i> , 2012, 23, 631-640.	3.3	329
19	Systems and synthetic metabolic engineering for amino acid production – the heartbeat of industrial strain development. <i>Current Opinion in Biotechnology</i> , 2012, 23, 718-726.	3.3	210
20	L-Valine production with minimization of by-products™ synthesis in <i>Corynebacterium glutamicum</i> and <i>Brevibacterium flavum</i> . <i>Amino Acids</i> , 2012, 43, 2301-2311.	1.2	46
21	Systems Metabolic Engineering. , 2012, , .		11

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22	Reprogramming Microbial Metabolic Pathways. Sub-Cellular Biochemistry, 2012, , .	1.0	11
23	Genome-Scale Reconstruction and Analysis of the Metabolic Network in the Hyperthermophilic Archaeon <i>Sulfolobus Solfataricus</i> . PLoS ONE, 2012, 7, e43401.	1.1	44
24	Intracellular Metabolite Pool Changes in Response to Nutrient Depletion Induced Metabolic Switching in <i>Streptomyces coelicolor</i> . Metabolites, 2012, 2, 178-194.	1.3	39
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44	The Effect of a LYSE Exporter Overexpression on L-Arginine Production in Corynebacterium crenatum. Current Microbiology, 2013, 67, 271-278.	1.0	16
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112	Model based engineering of <i>Pichia pastoris</i> central metabolism enhances recombinant protein production. <i>Metabolic Engineering</i> , 2014, 24, 129-138.	3.6	130
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132	Overexpression of the phosphofructokinase encoding gene is crucial for achieving high production of D-lactate in <i>Corynebacterium glutamicum</i> under oxygen deprivation. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 4679-4689.	1.7	49
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155	Metabolic engineering of <i>Corynebacterium glutamicum</i> for efficient production of 5-aminolevulinic acid. Biotechnology and Bioengineering, 2016, 113, 1284-1293.	1.7	63
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161	L-Lysine production independent of the oxidative pentose phosphate pathway by <i>Corynebacterium glutamicum</i> with the <i>Streptococcus mutans</i> gapN gene. <i>Metabolic Engineering</i> , 2016, 37, 1-10.	3.6	50
162	Characterization of aspartate kinase and homoserine dehydrogenase from <i>Corynebacterium glutamicum</i> IWJ001 and systematic investigation of l-isoleucine biosynthesis. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 873-885.	1.4	30
163	Recent advances in amino acid production by microbial cells. <i>Current Opinion in Biotechnology</i> , 2016, 42, 133-146.	3.3	118
164	Metabolic engineering of <i>Corynebacterium glutamicum</i> for enhanced production of 5-aminovaleric acid. <i>Microbial Cell Factories</i> , 2016, 15, 174.	1.9	96
165	Modification of aspartokinase III and dihydrodipicolinate synthetase increases the production of L-lysine in <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2016, 114, 79-86.	1.8	22
166	Creating metabolic demand as an engineering strategy in <i>Pseudomonas putida</i> – Rhamnolipid synthesis as an example. <i>Metabolic Engineering Communications</i> , 2016, 3, 234-244.	1.9	73
167	Attenuating l-lysine production by deletion of <i>ddh</i> and <i>lysE</i> and their effect on l-threonine and l-isoleucine production in <i>Corynebacterium glutamicum</i> . <i>Enzyme and Microbial Technology</i> , 2016, 93-94, 70-78.	1.6	36
168	Improvement of the intracellular environment for enhancing L-arginine production of <i>Corynebacterium glutamicum</i> by inactivation of H ₂ O ₂ -forming flavin reductases and optimization of ATP supply. <i>Metabolic Engineering</i> , 2016, 38, 310-321.	3.6	48
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170	<i>Corynebacterium glutamicum</i> for Sustainable Bioproduction: From Metabolic Physiology to Systems Metabolic Engineering. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016, 162, 217-263.	0.6	40
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