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## Synthetic biology and the development of tools for metabolic engineering

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154	Integrated analysis of isopentenyl pyrophosphate (IPP) toxicity in isoprenoid-producing <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , <b>2018</b> , 47, 60-72	9.7 62
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152	Biocatalysis of carboxylic acid reductases: phylogenesis, catalytic mechanism and potential applications. <b>2018</b> , 20, 777-792	47
151	A set of synthetic versatile genetic control elements for the efficient expression of genes in Actinobacteria. <b>2018</b> , 8, 491	34
150	Engineering exoelectrogens by synthetic biology strategies. <b>2018</b> , 10, 37-45	28
149	Development of a Plasmid-Free Biosynthetic Pathway for Enhanced Muconic Acid Production in <i>Pseudomonas chlororaphis</i> HT66. <b>2018</b> , 7, 1131-1142	16
148	Integrating T7 RNA Polymerase and Its Cognate Transcriptional Units for a Host-Independent and Stable Expression System in Single Plasmid. <b>2018</b> , 7, 1424-1435	16

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146	Engineered promoters enable constant gene expression at any copy number in bacteria. <b>2018</b> , 36, 352-358		101
145	Plant diterpenoid metabolism for manufacturing the biopharmaceuticals of tomorrow: prospects and challenges. <b>2018</b> , 17, 113-130		21
144	Complex molecules, clever solutions - Enzymatic approaches towards natural product and active agent syntheses. <b>2018</b> , 26, 1285-1303		18
143	Controlling cell-free metabolism through physiochemical perturbations. <i>Metabolic Engineering</i> , <b>2018</b> , 45, 86-94	9.7	47
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141	How Synthetic Biology and Metabolic Engineering Can Boost the Generation of Artificial Blood Using Microbial Production Hosts. <b>2018</b> , 6, 186		4
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139	Synthetic biology approaches to access renewable carbon source utilization in <i>Corynebacterium glutamicum</i> . <b>2018</b> , 102, 9517-9529		9
138	Secondary metabolites overproduction through transcriptional gene cluster refactoring. <i>Metabolic Engineering</i> , <b>2018</b> , 49, 299-315	9.7	41
137	A new sRNA-mediated posttranscriptional regulation system for <i>Bacillus subtilis</i> . <b>2018</b> , 115, 2986-2995		8
136	Rapid host strain improvement by in vivo rearrangement of a synthetic yeast chromosome. <b>2018</b> , 9, 1932		64
135	Rapid pathway prototyping and engineering using in vitro and in vivo synthetic genome SCRaMBLE-in methods. <b>2018</b> , 9, 1936		59
134	Control Theory for Synthetic Biology: Recent Advances in System Characterization, Control Design, and Controller Implementation for Synthetic Biology. <b>2018</b> , 38, 32-62		38
133	Construction, Model-Based Analysis, and Characterization of a Promoter Library for Fine-Tuned Gene Expression in <i>Bacillus subtilis</i> . <b>2018</b> , 7, 1785-1797		38
132	Omics Approaches in Industrial Biotechnology and Bioprocess Engineering. <b>2018</b> , 251-269		6
131	Biosynthesis and biotechnological application of non-canonical amino acids: Complex and unclear. <i>Biotechnology Advances</i> , <b>2018</b> , 36, 1917-1927	17.8	12
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126	Genetic tool development and systemic regulation in biosynthetic technology. <b>2018</b> , 11, 152		13
125	An synthetic biology platform for emerging industrial biomanufacturing: Bottom-up pathway design. <b>2018</b> , 3, 186-195		29
124	Bioconversion of methane to C-4 carboxylic acids using carbon flux through acetyl-CoA in engineered <i>Methylobacterium buryatense</i> 5GB1C. <i>Metabolic Engineering</i> , <b>2018</b> , 48, 175-183	9.7	22
123	Biosynthesis of Sesquiterpene Lactones in Plants and Metabolic Engineering for Their Biotechnological Production. <b>2018</b> , 47-91		3
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121	Synthetic Biology Goes Cell-Free. <b>2019</b> , 17, 64		40
120	FadR-Based Biosensor-Assisted Screening for Genes Enhancing Fatty Acyl-CoA Pools in. <b>2019</b> , 8, 1788-1800		27
119	Enhancing butanol tolerance of reveals hydrophobic interaction of multi-tasking chaperone SecB. <b>2019</b> , 12, 164		6
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115	Efficient biosynthesis of antitumor ganoderic acid HLDOA using a dual tunable system for optimizing the expression of CYP5150L8 and a <i>Ganoderma</i> P450 reductase. <b>2019</b> , 116, 3301-3311		15
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111	Bioengineering of Secondary Metabolites. <b>2019</b> , 55-68		28
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100	High-Performance Biocomputing in Synthetic Biology-Integrated Transcriptional and Metabolic Circuits. <b>2019</b> , 7, 40		20
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6	Development of a Glycerol-Inducible Expression System for High-Yield Heterologous Protein Production in <i>Bacillus subtilis</i> .		2
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- 3 Biyofarmasik Keltir, Geliştirme ve Üretim Güçel Paradigmasında Olarak Mikroorganizmaların Metabolik Mükemmelliği Sentetik Biyolojinin Katkısı **2022**, 11, 427-458 ○
- 2 Machine learning-assisted medium optimization revealed the discriminated strategies for improved production of the foreign and native metabolites. ○
- 1 Machine learning-assisted medium optimization revealed the discriminated strategies for improved production of the foreign and native metabolites. **2023**, ○