

# Biosynthesis of polyhydroxyalkanoates containing 2-hydroxybutyrate as a carbon source by metabolically engineered *Escherichia coli*

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Metabolic engineering: enabling technology of a bio-based economy. <i>Current Opinion in Chemical Engineering</i> , 2012, 1, 355-362.	3.8	19
2	Advanced bacterial polyhydroxyalkanoates: Towards a versatile and sustainable platform for unnatural tailor-made polyesters. <i>Biotechnology Advances</i> , 2012, 30, 1196-1206.	6.0	150
3	Synthetic biology devices as tools for metabolic engineering. <i>Biochemical Engineering Journal</i> , 2012, 65, 82-89.	1.8	21
4	Synthesis of nylon 4 from gamma-aminobutyrate (GABA) produced by recombinant <i>Escherichia coli</i> . <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 885-892.	1.7	113
5	Polyhydroxyalkanoic acids from structurally-unrelated carbon sources in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3301-3307.	1.7	40
6	Microbial production of lactate-containing polyesters. <i>Microbial Biotechnology</i> , 2013, 6, 621-636.	2.0	29
7	Biosynthetic polyesters consisting of 2-hydroxyalkanoic acids: current challenges and unresolved questions. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 8011-8021.	1.7	38
8	Metabolic engineering of <i>Escherichia coli</i> for the production of 5-aminovalerate and glutarate as C5 platform chemicals. <i>Metabolic Engineering</i> , 2013, 16, 42-47.	3.6	140
9	Metabolic engineering of <i>Ralstonia eutropha</i> for the biosynthesis of 2-hydroxyacid-containing polyhydroxyalkanoates. <i>Metabolic Engineering</i> , 2013, 20, 20-28.	3.6	63
10	Propionyl-CoA dependent biosynthesis of 2-hydroxybutyrate containing polyhydroxyalkanoates in metabolically engineered <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2013, 165, 93-98.	1.9	38
11	Metabolic engineering of <i>Escherichia coli</i> : A sustainable industrial platform for bio-based chemical production. <i>Biotechnology Advances</i> , 2013, 31, 1200-1223.	6.0	181
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13	Biosynthesis and Thermal Properties of PHBV Produced from Levulinic Acid by <i>Ralstonia eutropha</i> . <i>PLoS ONE</i> , 2013, 8, e60318.	1.1	44
14	Metabolic engineering of <i>Escherichia coli</i> for enhanced biosynthesis of poly(3-hydroxybutyrate) based on proteome analysis. <i>Biotechnology Letters</i> , 2013, 35, 1631-1637.	1.1	17
15	Biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) from glucose with elevated 3-hydroxyvalerate fraction via combined citramalate and threonine pathway in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 3923-3931.	1.7	34
16	Current trends in polyhydroxyalkanoates (PHAs) biosynthesis: Insights from the recombinant <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2014, 180, 52-65.	1.9	121
17	Engineering the diversity of polyesters. <i>Current Opinion in Biotechnology</i> , 2014, 29, 24-33.	3.3	122
18	Metabolic engineering of <i>Escherichia coli</i> for biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) from glucose. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 95-104.	1.7	76

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27	Optimized Transformation of Newly Constructed Escherichia coli-Clostridia Shuttle Vectors into Clostridium beijerinckii. Applied Biochemistry and Biotechnology, 2015, 177, 226-236.	1.4	6
28	Development of Low-Carbon-Driven Bio-product Technology Using Lignocellulosic Substrates from Agriculture: Challenges and Perspectives. Current Sustainable/Renewable Energy Reports, 2015, 2, 145-154.	1.2	16
29	Metabolic engineering of <i>Ralstonia eutropha</i> for the production of polyhydroxyalkanoates from sucrose. Biotechnology and Bioengineering, 2015, 112, 638-643.	1.7	62
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33	Recombinant Ralstonia eutropha engineered to utilize xylose and its use for the production of poly(3-hydroxybutyrate) from sunflower stalk hydrolysate solution. Microbial Cell Factories, 2016, 15, 95.	1.9	66
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35	Biosynthesis of polyhydroxyalkanoates containing hydroxyl group from glycolate in Escherichia coli. AMB Express, 2016, 6, 29.	1.4	21
36	Construction of heterologous gene expression cassettes for the development of recombinant Clostridium beijerinckii. Bioprocess and Biosystems Engineering, 2016, 39, 555-563.	1.7	4
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38	Biosynthesis of poly(2-hydroxybutyrate-co-lactate) in metabolically engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2016, 21, 169-174.	1.4	25
39	One-step fermentative production of poly(lactate-co-glycolate) from carbohydrates in <i>Escherichia coli</i> . <i>Nature Biotechnology</i> , 2016, 34, 435-440.	9.4	182
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46	Microbial synthesis of a novel terpolyester P(LA-co-3HB-co-3HP) from low-cost substrates. <i>Microbial Biotechnology</i> , 2017, 10, 371-380.	2.0	24
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50	Synthetic Biology - Metabolic Engineering. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2018, , .	0.6	4
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56	Systems Metabolic Engineering Strategies for Non-Natural Microbial Polyester Production. <i>Biotechnology Journal</i> , 2019, 14, 1800426.	1.8	25

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61	Yeasts as Microbial Factories for Production of Recombinant Human Interferon Alpha 2b of Therapeutic Importance. ACS Symposium Series, 2019, , 41-56.	0.5	0
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74	Characteristics and Applications of Biodiesels and Design of Reactors for Their Industrial Manufacture. ACS Symposium Series, 2019, , 285-320.	0.5	0
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