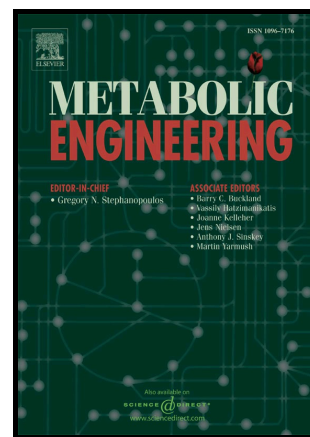


Author's Accepted Manuscript

Efficient utilization of pentoses for bioproduction of the renewable two-carbon compounds ethylene glycol and glycolate

Brian Pereira, Zheng-Jun Li, Marjan De Mey, Chin Giaw Lim, Haoran Zhang, Claude Hoeltgen, Gregory Stephanopoulos



www.elsevier.com/locate/ymben

PII: S1096-7176(15)00160-3
DOI: <http://dx.doi.org/10.1016/j.ymben.2015.12.004>
Reference: YMBEN1074

To appear in: *Metabolic Engineering*

Received date: 17 August 2015
Revised date: 5 December 2015
Accepted date: 12 December 2015

Cite this article as: Brian Pereira, Zheng-Jun Li, Marjan De Mey, Chin Giaw Lim, Haoran Zhang, Claude Hoeltgen and Gregory Stephanopoulos, Efficient utilization of pentoses for bioproduction of the renewable two-carbon compound ethylene glycol and glycolate, *Metabolic Engineering* <http://dx.doi.org/10.1016/j.ymben.2015.12.004>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

1 **Efficient utilization of pentoses for bioproduction of the renewable two-carbon compounds**
2 **ethylene glycol and glycolate**

3

4 Brian Pereira^{1§}, Zheng-Jun Li^{1,2§}, Marjan De Mey^{1,3}, Chin Giaw Lim^{1†}, Haoran Zhang^{1†}, Claude
5 Hoeltgen^{1,4}, Gregory Stephanopoulos^{1*}

6

7 1. Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA,
8 02139, U.S.A.

9 2. Beijing Key Laboratory of Bioprocess, College of Life Science and Technology, Beijing
10 University of Chemical Technology, Beijing 100029, P. R. China

11 3. Center for Industrial Biotechnology and Biocatalysis, Department for Biochemical and
12 Microbial Technology, Ghent University, 9000 Ghent, Belgium

13 4. Institute for Chemical and Bioengineering, Department of Chemistry and Applied Biosciences,
14 ETH Zurich, 8093 Zurich, Switzerland

15

16 §Authors contributed equally to this study

17 †Present addresses:

18 (C.G.L.) Manus Biosynthesis, Cambridge, MA, 02138, U.S.A.

19 (H.Z.) Rutgers University, New Brunswick, NJ, 08901, USA

20

21 *Corresponding author (G. Stephanopoulos)

22 Mailing address: Department of Chemical Engineering, Massachusetts Institute of Technology,
23 Room 56-469, 77 Massachusetts Avenue, Cambridge, MA 02139

Download English Version:

<https://daneshyari.com/en/article/6494274>

Download Persian Version:

<https://daneshyari.com/article/6494274>

[Daneshyari.com](https://daneshyari.com)