# ERRATUM Open Access



# Erratum to: Engineering *Escherichia coli* for high-yield geraniol production with biotransformation of geranyl acetate to geraniol under fed-batch culture

Wei Liu<sup>1,2,3</sup>, Xin Xu<sup>1,3</sup>, Rubing Zhang<sup>1,3</sup>, Tao Cheng<sup>1</sup>, Yujin Cao<sup>1</sup>, Xiaoxiao Li<sup>1</sup>, Jiantao Guo<sup>4</sup>, Huizhou Liu<sup>1\*</sup> and Mo Xian<sup>1\*</sup>

# Erratum to: Biotechnol Biofuels (2016) 9:58 DOI 10.1186/s13068-016-0466-5

Following publication of the original article in *Biotech-nology for Biofuels* [1], it was brought to our attention that the following sentences are incorrect:

"At the end of fermentation, the concentration of geraniol reached maximum (2.0 g/L), and the yield (from glucose to geraniol) was 14 % which is approximately 11-fold that reported before [5]."

This sentence should read: At the end of fermentation, the concentration of geraniol reached maximum (2.0 g/L), and the yield (from glucose to geraniol) was 14 % of the theoretical yield, which is approximately 11-fold that reported before [5].

"Geraniol or neral was not detected while nerol was kept at a very low concentration during fermentation (0.05 g/L at 52 h)."

This sentence should read: Geranial or neral was not detected while nerol was kept at a very low concentration during fermentation (0.05 g/L at 52 h).

The header "Geranyl acetate feeding experiments" should read: Geraniol feeding experiments.

Furthermore, the captions of Figs. 3 and 4 are incorrect.

The caption of Fig. 3 "Geranyl acetate feeding experiments by *E. coli* BL21 (DE3)", should read: Geraniol feeding experiments by *E. coli* BL21 (DE3).

The caption of Fig. 4 "Geranyl acetate feeding experiments by LWG10", should read: Geraniol feeding experiments by LWG10.

We apologize for the inconvenience this may have caused.

## **Author details**

<sup>1</sup> CAS Key Laboratory of Bio-Based Materials, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao 266101, China. <sup>2</sup> Key Laboratory of Green Process and Engineering, Institute of Process Engineering, Chinese Academy of Sciences, Beijing 10090, China. <sup>3</sup> University of Chinese Academy of Sciences, Beijing 100049, China. <sup>4</sup> Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE 68588, USA.

The online version of the original article can be found under doi:10.1186/s13068-016-0466-5.

Received: 14 March 2016 Accepted: 14 April 2016 Published online: 27 June 2016

### Reference

 Liu W, Xu X, Zhang R, Cheng T, Cao Y, Li X, Guo J, Liu H, Xian M. Engineering Escherichia coli for high-yield geraniol production with biotransformation of geranyl acetate to geraniol under fed-batch culture. Biotechnol Biofuels. 2016;9:58.

Full list of author information is available at the end of the article



<sup>\*</sup>Correspondence: liuhuizhou@qibebt.ac.cn; xianmo1@qibebt.ac.cn <sup>1</sup> CAS Key Laboratory of Bio-Based Materials, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao 266101, China