Accepted Manuscript

Bio-hythane production from microalgae biomass: key challenges and potential opportunities for algal bio-refineries

Anish Ghimire, Gopalakrishnan Kumar, Periyasamy Sivagurunathan, Sutha Shobana, Ganesh D. Saratale, Hyun Woo Kim, Vincenzo Luongo, Giovanni Esposito, Raul Munoz

PII:	S0960-8524(17)30824-6
DOI:	http://dx.doi.org/10.1016/j.biortech.2017.05.156
Reference:	BITE 18182
To appear in:	Bioresource Technology
Received Date:	26 March 2017
Revised Date:	23 May 2017
Accepted Date:	25 May 2017



Please cite this article as: Ghimire, A., Kumar, G., Sivagurunathan, P., Shobana, S., Saratale, G.D., Kim, H.W., Luongo, V., Esposito, G., Munoz, R., Bio-hythane production from microalgae biomass: key challenges and potential opportunities for algal bio-refineries, *Bioresource Technology* (2017), doi: http://dx.doi.org/10.1016/j.biortech.2017.05.156

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 proof before it is published in its final 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.

ACCEPTED MANUSCRIPT

Bio-hythane production from microalgae biomass: key challenges and

potential opportunities for algal bio-refineries

Anish Ghimire¹, Gopalakrishnan Kumar²^{*}, Periyasamy Sivagurunathan³, Sutha Shobana⁴, Ganesh D. Saratale⁵, Hyun Woo Kim⁶, Vincenzo Luongo⁷, Giovanni Esposito⁸, Raul Munoz⁹

¹Department of Environmental Science and Engineering, Kathmandu University, P.O. Box 6250, Kathmandu, Nepal ²Green Processing, Bioremediation and Alternative Energies Research Group (GPBAE), Faculty of Environment and Labour Safety, Ton Duc Thang University, Ho Chi Minh City, Vietnam ³Center for materials cycles and waste management research, National Institute for Environmental Studies, Tsukuba, Japan ⁴Department of Chemistry and Research Centre, Aditanar College of Arts and Science, Virapandianpatnam, Tiruchendur, Tamil Nadu, India ⁵Department of Food Science and Biotechnology, Dongguk University- Seoul, Ilsandong-gu, Goyang-si, Gyonggido, 10,326, Republic of Korea ⁶Department of Environmental Engineering, Chonbuk National University, South Korea ⁷Department of Civil, Architectural and Environmental Engineering, University of Naples Federico II, via Claudio 21, 80125 Naples, Italy ⁸Department of Civil and Mechanical Engineering, University of Cassino and Southern Lazio, via Di Biasio 43, 03043 Cassino (FR), Italy ⁹Department of Chemical Engineering and Environmental Technology, University of Valladolid, Doctor Mergelina s/n, 47011, Valladolid, Spain.

*Corresponding Author's Address:

Dr. Gopalakrishnan Kumar,

Green Processing, Bioremediation and Alternative Energies Research Group (GPBAE), Faculty of Environment and Labour Safety,

Ton Duc Thang University, Ho Chi Minh City, Vietnam.

E-mail: gopalakrishnankumar@tdt.edu.vn, gopalakrishnanchml@gmail.com

Download English Version:

https://daneshyari.com/en/article/4997055

Download Persian Version:

https://daneshyari.com/article/4997055

Daneshyari.com