

Accepted Manuscript

Screening of a microbial consortium for selective degradation of lignin from tree trimmings

Xiuxiu Fang, Qiumin Li, Yunqin Lin, Xinlei Lin, Yiqi Dai, Zexiang Guo, Dezhao Pan

PII: S0960-8524(18)30072-5
DOI: <https://doi.org/10.1016/j.biortech.2018.01.058>
Reference: BITE 19415

To appear in: *Bioresource Technology*

Received Date: 20 November 2017
Revised Date: 10 January 2018
Accepted Date: 11 January 2018

Please cite this article as: Fang, X., Li, Q., Lin, Y., Lin, X., Dai, Y., Guo, Z., Pan, D., Screening of a microbial consortium for selective degradation of lignin from tree trimmings, *Bioresource Technology* (2018), doi: <https://doi.org/10.1016/j.biortech.2018.01.058>

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.



Screening of a microbial consortium for selective degradation of lignin from tree trimmings

Xiuxiu Fang^a, Qiumin Li^{a,c}, Yunqin Lin^{a,b,*}, Xinlei Lin^a, Yiqi Dai^a, Zexiang Guo^a, Dezhao

Pan^a

^aCollege of Natural Resources and Environment, South China Agricultural University,

Guangzhou, Guangdong 510640, PR China

^bIntegrate Microbiology Research Center, South China Agricultural University, Guangzhou,

Guangdong 510640, PR China

^cSchool of Agriculture and Food Science, Belfield Campus, University College Dublin,

Dublin 4, Ireland

*Corresponding author. Tel.: +86 20 85280296; fax: +86 20 85280292. E-mail address:

yqlin@scau.edu.cn (Y. Lin)

ABSTRACT

To acquire microbial consortia with effectively precedent degradation of lignin, samples obtained from rotten trunks, rotten stumps and soil near it were screened and isolated after generations of subculture. The dynamic change illustrated that their community structures

Download English Version:

<https://daneshyari.com/en/article/7068186>

Download Persian Version:

<https://daneshyari.com/article/7068186>

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