## **Accepted Manuscript**

Enhanced polycyclic aromatic hydrocarbons degradation in rhizosphere soil planted with tall fescue: Bacterial community and functional gene expression mechanisms

Meixia Guo, Zongqiang Gong, Renhui Miao, Chunyun Jia, James Rookes, David Cahill, Jie Zhuang

PII: S0045-6535(18)31532-7

DOI: 10.1016/j.chemosphere.2018.08.057

Reference: CHEM 21975

To appear in: ECSN

Received Date: 2 June 2018
Revised Date: 3 August 2018
Accepted Date: 13 August 2018

Please cite this article as: Guo, M., Gong, Z., Miao, R., Jia, C., Rookes, J., Cahill, D., Zhuang, J., Enhanced polycyclic aromatic hydrocarbons degradation in rhizosphere soil planted with tall fescue: Bacterial community and functional gene expression mechanisms, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.08.057.

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

- 1 Enhanced polycyclic aromatic hydrocarbons degradation in rhizosphere soil
- 2 planted with tall fescue: bacterial community and functional gene expression
- 3 mechanisms

4

- 5 Meixia Guo<sup>a,b</sup>, Zongqiang Gong<sup>a\*</sup>, Renhui Miao<sup>c</sup>, Chunyun Jia<sup>a</sup>, James Rookes<sup>d</sup>,
- 6 David Cahill<sup>d</sup>, Jie Zhuang<sup>a</sup>

7

- 8 <sup>a</sup> Key Laboratory of Pollution Ecology and Environmental Engineering, Institute of
- 9 Applied Ecology, Chinese Academy of Sciences, Shenyang 110016, China
- 10 b Institute of Environmental and Analytical Sciences, Henan Joint International
- 11 Research Laboratory of Environmental Pollution Control Materials, College of
- 12 Chemistry and Chemical Engineering, Henan University, Kaifeng, Henan 475004,
- 13 China.
- <sup>c</sup> International Joint Research Laboratory for Global Change Ecology, College of Life
- Sciences, Henan University, Kaifeng, Henan 475004, PR China
- <sup>d</sup> Centre for Chemistry and Biotechnology, School of Life and Environmental
- 17 Sciences, Deakin University, Geelong, Victoria 3200, Australia

18

- \* Corresponding author:
- 20 Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang 110016, China
- 21 Tel: +86 24 83970367; fax: +86 24 83970300
- 22 Email: zgong@iae.ac.cn

23

## Download English Version:

## https://daneshyari.com/en/article/8946103

Download Persian Version:

https://daneshyari.com/article/8946103

<u>Daneshyari.com</u>