

Accepted Manuscript

Prevalence of quinolone resistance genes, copper resistance genes, and the bacterial communities in a soil-ryegrass system co-polluted with copper and ciprofloxacin

Xi Xia Tuo, Jie Gu, Xiaojuan Wang, YiXin Sun, Manli Duan, Wei Sun, Yanan Yin, Aiyun Guo, Li Zhang



PII: S0045-6535(18)30041-9

DOI: [10.1016/j.chemosphere.2018.01.033](https://doi.org/10.1016/j.chemosphere.2018.01.033)

Reference: CHEM 20614

To appear in: *ECSN*

Received Date: 9 September 2017

Revised Date: 2 January 2018

Accepted Date: 9 January 2018

Please cite this article as: Tuo, X., Gu, J., Wang, X., Sun, Y., Duan, M., Sun, W., Yin, Y., Guo, A., Zhang, L., Prevalence of quinolone resistance genes, copper resistance genes, and the bacterial communities in a soil-ryegrass system co-polluted with copper and ciprofloxacin, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.01.033.

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.

Title Page

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

Title

Prevalence of quinolone resistance genes, copper resistance genes, and the bacterial communities in a soil-ryegrass system co-polluted with copper and ciprofloxacin

Authors

Xiaxia Tuo¹, Jie Gu^{1,2*}, Xiaojuan Wang¹, YiXin Sun¹, Manli Duan¹, Wei Sun¹, Yanan Yin¹, Aiyun Guo¹, and Li Zhang¹

Affiliations and addresses

1. College of Natural Resources and Environment, Northwest A&F University, Yangling, Shaanxi 712100, China

2. Research Center of Recycle Agricultural Engineering and Technology of Shaanxi Province, Northwest A&F University, Yangling, Shaanxi 712100, China

* **Corresponding Author:** Jie Gu

Email: gujie205@sina.com

Tel: 86-029-87081265

Fax: 86-029-87081265

Address: College of Natural Resources and Environment, Northwest A&F University, Yangling, Shaanxi 712100, China

Download English Version:

<https://daneshyari.com/en/article/8852028>

Download Persian Version:

<https://daneshyari.com/article/8852028>

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