

# Accepted Manuscript

Lignin-induced growth inhibition in soybean exposed to iron oxide nanoparticles

Tamires Letícia Cunha Lopes, Rita de Cássia Siqueira-Soares, Guilherme Henrique Gonçalves de Almeida, Gabriele Sauthier Romano de Melo, Gabriela Ellen Barreto, Dyoní Matias de Oliveira, Wanderley Dantas dos Santos, Osvaldo Ferrarese-Filho, Rogério Marchiosi



PII: S0045-6535(18)31408-5

DOI: [10.1016/j.chemosphere.2018.07.143](https://doi.org/10.1016/j.chemosphere.2018.07.143)

Reference: CHEM 21858

To appear in: *ECSN*

Received Date: 26 March 2018

Revised Date: 11 July 2018

Accepted Date: 23 July 2018

Please cite this article as: Cunha Lopes, Tamires.Letí., de Cássia Siqueira-Soares, R., Gonçalves de Almeida, G.H., Romano de Melo, G.S., Barreto, G.E., de Oliveira, D.M., dos Santos, W.D., Ferrarese-Filho, O., Marchiosi, Rogé., Lignin-induced growth inhibition in soybean exposed to iron oxide nanoparticles, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.07.143.

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.

1 **Lignin-induced growth inhibition in soybean exposed to iron oxide nanoparticles**

2

3

4 Tamires Letícia Cunha Lopes, Rita de Cássia Siqueira-Soares, Guilherme Henrique

5 Gonçalves de Almeida, Gabriele Sauthier Romano de Melo, Gabriela Ellen Barreto,

6 Dyoní Matias de Oliveira, Wanderley Dantas dos Santos, Osvaldo Ferrarese-Filho,

7 Rogério Marchiosi\*

8

9 *Laboratory of Plant Biochemistry, Department of Biochemistry, University of Maringá,*

10 *Maringá, PR, 87020-900, Brazil*

11

12

13

14

15

16

17

18

19

20

21

22

23 **\*Corresponding Author:**

24 Rogério Marchiosi

25 [marchiosi@hotmail.com](mailto:marchiosi@hotmail.com)

Download English Version:

<https://daneshyari.com/en/article/8850311>

Download Persian Version:

<https://daneshyari.com/article/8850311>

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