

## Accepted Manuscript

Title: Boron deficiency inhibits root growth by controlling meristem activity under cytokinin regulation

Authors: Laura Poza-Viejo, Isidro Abreu, Mary Paz González-García, Paúl Allauca, Ildefonso Bonilla, Luis Bolaños, María Reguera



PII: S0168-9452(17)31058-0  
DOI: <https://doi.org/10.1016/j.plantsci.2018.02.005>  
Reference: PSL 9748

To appear in: *Plant Science*

Received date: 8-11-2017  
Revised date: 19-12-2017  
Accepted date: 6-2-2018

Please cite this article as: Laura Poza-Viejo, Isidro Abreu, Mary Paz González-García, Paúl Allauca, Ildefonso Bonilla, Luis Bolaños, María Reguera, Boron deficiency inhibits root growth by controlling meristem activity under cytokinin regulation, *Plant Science* <https://doi.org/10.1016/j.plantsci.2018.02.005>

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.

## **Boron deficiency inhibits root growth by controlling meristem activity under cytokinin regulation.**

Laura Poza-Viejo<sup>1,2</sup>, Isidro Abreu<sup>1,2</sup>, Mary Paz González-García<sup>3</sup>, Paúl Allauca<sup>1</sup>, Idefonso Bonilla<sup>1</sup>, Luis Bolaños<sup>1</sup>, María Reguera<sup>1\*</sup>

<sup>1</sup>Departament of Biology, Universidad Autónoma de Madrid, c/Darwin 2, Campus de Cantoblanco, 28049 Madrid, Spain

<sup>2</sup>*Present address:* Centro de Biotecnología y Genómica de Plantas, Universidad Politécnica de Madrid (UPM) - Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria (INIA), Campus Montegancedo UPM, 28223 Pozuelo de Alarcón (Madrid), Spain

<sup>3</sup>Centro Nacional de Biotecnología-CSIC, Cantoblanco, E-28049 Madrid, Spain

\***Author for correspondence:** *Maria Reguera*

*Email: maria.reguera@uam.es*

### **Highlights**

- Boron deficiency causes root growth arrest by inhibiting root meristem activity.
- Rapid changes in cytokinin signaling were identified in response to B deficiency.
- The quiescent center identity loss occur at later stages of the stress.

Download English Version:

<https://daneshyari.com/en/article/8356677>

Download Persian Version:

<https://daneshyari.com/article/8356677>

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