Accepted Manuscript

Title: The Importance of Boron in Biological Systems

Authors: Irem Uluisik, Huseyin Caglar Karakaya, Ahmet Koc

PII: S0946-672X(17)30840-4

DOI: https://doi.org/10.1016/j.jtemb.2017.10.008

Reference: JTEMB 25999

To appear in:

Received date: 24-5-2016 Revised date: 13-3-2017 Accepted date: 17-10-2017

Please cite this article as: Uluisik Irem, Karakaya Huseyin Caglar, Koc Ahmet.The Importance of Boron in Biological Systems. *Journal of Trace Elements in Medicine and Biology* https://doi.org/10.1016/j.jtemb.2017.10.008

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

The Importance of Boron in Biological Systems

Irem Uluisik¹, Huseyin Caglar Karakaya^{1,*} and Ahmet Koc^{1,2,*}

¹Izmir Institute of Technology, Department of Molecular Biology and Genetics, 35430 Urla, Izmir, Turkey

²Inonu University, Medical School, Department of Medical Biology and Genetics, Battalgazi, Malatya, Turkey

*Correspondence:

Dr. Ahmet Koc
Inonu University, Medical School
Department of Medical Biology and Genetics
Battalgazi, Malatya, Turkey
ahmet.koc@inonu.edu.tr

Dr. Huseyin Caglar Karakaya
Izmir Institute of Technology
Department of Molecular Biology and Genetics
35430, Urla, Izmir, Turkey
caglarkarakaya@iyte.edu.tr

Abstract

Boron is an essential element for plants and probably essential for human and animal health. Boron has a broad range of physiological effects on biological systems at low concentrations, whereas it is toxic to at high concentrations. Eventhough there are many studies on boron's biological effects and toxicity, more information is needed to understand the mechanisms of its

Download English Version:

https://daneshyari.com/en/article/7639000

Download Persian Version:

https://daneshyari.com/article/7639000

<u>Daneshyari.com</u>