

INTERNATIONAL SYMPOSIUM ON

MAGNESIUM

IN CROP PRODUCTION, FOOD QUALITY AND
HUMAN HEALTH

8-9 MAY 2012

GOETTINGEN, GERMANY



Magnesium: The Forgotten Mineral Nutrient

Magnesium (Mg) has a number of critical functions in plant systems. Based on published data, it seems that among all mineral nutrients, Mg has the most distinct role in phloem loading of photo-assimilates and carbon partitioning between sink organs.

Magnesium is also an exceptional mineral nutrient in terms of activating more enzymes than any other mineral nutrient. A wide range of essential plant functions requires adequate Mg supply.

Despite the well-known role of Mg for various critical functions in plants, there is surprisingly little research activity on the role of Mg nutrition in crop production and quality. Magnesium deficiency is also becoming an important limiting factor in crop production systems. Currently, Mg is being considered a «forgotten mineral element». In view of its particular protective roles against cardiovascular diseases, the Mg concentration in food crops and in the diet is also becoming an important issue.

This conference will be the first international symposium on Mg focusing predominantly on impacts of Mg on crop production and nutritional quality.



Growth of wheat plants with low and adequate supply of Mg in a nutrient solution. Reduced root growth is one of the early reactions of plants to Mg deficiency in growth medium. (Photo courtesy of Dr. Ismail Cakmak).

A special Issue will be published in «Plant and Soil»

The organizing committee agreed with the journal «Plant and Soil» on publishing a special issue dedicated to the magnesium symposium. Details of this publication will be posted on the symposium website.

Confirmed Speakers

W. J. Horst Germany	Opening Speech
A. Gransee Germany	Mg Solubility/Interactions in Soils
W. Grzebisz Poland	Mg Fertilization of Field Crops
Z. Rengel Australia	Mitigation of Aluminum Toxicity by Mg
S. Schubert Germany	Mg Nutrition and Drought Stress
D. Huber USA	Mg and Disease Tolerance of Plants
V. Römheld Germany	Mg Nutrition and Glyphosate
I. Cakmak Turkey	Mg and Plant Growth
N. Verbruggen Belgium	Plant Response to Mg Deficiency
L. Öztürk Turkey	Mg and Phloem Transport
J. Gerendas Germany	Mg and Crop Quality
M. Broadley UK	Mg Concentrations of Food Crops
F. Toldra Spain	Reduction of NaCl in Foods through Mg
K. Männer Germany	Mg in Ruminant Nutrition
A. Rosanoff USA	Mg Deficiency in Human Populations
R. M. Touyz Canada	Mg and Clinical Medicine
K. Kisters Germany	Mg and Cardiovascular Diseases

Call for Abstracts

Abstracts are invited mainly for poster presentations, because of limited time slots for oral presentations. The organizing committee will accept a limited number of abstracts for short oral presentations.

Abstracts of no more than 200 words can be E-mailed to Dr. Ismail Cakmak (cakmak@sabanciuniv.edu) latest on January 31, 2012. The abstracts should include name of authors, their affiliations and e-mail address, and should be submitted in an editable format (e.g., DOC or RTF). Please download and use our template file for your abstracts (www.iapn-goettingen.de).

Registration

Early bird registration fee to be received before January 31, 2012: 150,- €.

Regular registration fee, closing date March 31, 2012: 200,- €.

Students registration fee is reduced by 50 %.

The registration fee covers participation in the symposium, abstract book, welcome cocktail, lunch and gala dinner.

Online registration is necessary before payment. Please visit www.iapn-goettingen.de for registration, payment details and updated program information.

Venue

8-9 May 2012, University of Goettingen, Germany. Further information on location and schedule will be provided on our website.

Contact

Dr. Klaus Dittert, Institute of Applied Plant Nutrition, Germany

E-Mail: mg-conference@iapn-goettingen.de

Accommodation

Please consult our website www.iapn-goettingen.de for a list of hotels with reduced rates for conference participants. We kindly ask you to make your room arrangements individually.



The Institute of Applied Plant Nutrition

The Institute of Applied Plant Nutrition (IAPN) is a university-affiliated institute at the University of Goettingen. The IAPN was jointly founded by the University of Goettingen and K+S KALI GmbH in November 2010. The IAPN is located on campus right next to the Section of Plant Nutrition and Crop Physiology.

Location

Goettingen with its beautiful historic city centre is conveniently located in the middle of Germany. It can be easily reached by high-speed train (ICE). ICE connection to Frankfurt airport takes about 2 hours.



Organizers

- University of Goettingen, Germany
- Sabancı University, Turkey
- The Center for Magnesium Education and Research, USA

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