

GATERSLEBEN LECTURE



Speaker: **Prof. Toru Fujiwara**
(Department of Applied Biological Chemistry,
Graduate School of Agricultural and Life
Sciences, University of Tokyo)

Title: **"Boron in Arabidopsis thaliana:
sensing, transport and regulation of
growth"**

Time: **Monday, February 10, 2014, 3 pm**

Abstract:

Boron is an essential element of plants. We have previously identified several transporters of boron and found that the transporters are regulated by boron nutrition. In this presentation, I would like to describe our recent and unpublished findings about boron in *Arabidopsis thaliana*, including a novel mechanisms of boron-regulated expression of NIP5;1, a boron uptake transporter, roles of polar-localization and boron-dependent degradation of BOR1, a boron efflux transporter, in boron transport from roots to shoots, mathematical modeling of boron transport in roots, and a novel role of boron in root growth through regulation of cell wall synthesis.

Place: **Lecture Hall, IPK Gatersleben**

Prof. Dr. Andreas Graner
(organizer)

Prof. Dr. Nicolaus von Wirén
(host)

If you are interested in personal discussions with the speaker please contact the host (phone: 039482/5602) beforehand.