



## **Prof. Dr. Petra Bauer**

**Institut für Botanik  
Universität des Saarlandes**

### **“Plant model systems for molecular biology and their use for studying Fe uptake”**

Plants comprise a striking group of organisms which have evolved particular adaptations to survive and dominate on Earth. They are highly influential for climate, ecology and the life strategies of all other organisms. Plants are also the most important organisms in terms of economical value for humans and they produce not only all of our food, but also materials and energy. To make better use of our plants humans have long since created crops which are continually being improved through breeding. Today we know about the importance of the genetic diversity which allows us to breed always new optimal plant lines for our purposes. Genome research combined with plant physiology and molecular biology help us to identify the key genetic players for each physiological process. In our group we study the genetic basis of iron uptake in plants. Iron is a major micronutrient for animals as well as for plants. While animals obtain their iron from animal or plant foods, plants have to primarily assimilate iron from the soil which is a difficult task. The basis of iron uptake in plants is presented as well as our work on the regulation of iron uptake.

**Dienstag, 10. Februar 2009, 17.30 Uhr c.t.**

**Gebäude E2 6, Seminarraum E.04**

**Alle Interessenten sind herzlich eingeladen.**

Die Sprecher des Graduiertenkollegs  
Manfred Lücke und Ludger Santen

**Strukturbildung und Transport  
in komplexen Systemen**