

THURSDAY MAY 2<sup>nd</sup> 2013  
Max Planck Institute for Plant Breeding Research, Cologne

#### WELCOME

- 10.00 Prof. Dr. Andreas Weber, Heinrich Heine University  
10.15 Dr. Waltraud Kreuz-Gers, Ministerium für Innovation, Wissenschaft und Forschung des Landes Nordrhein-Westfalen  
10.30 Prof. Dr. Dr. H. Michael Piper, President of the Heinrich Heine University

#### OPENING LECTURE

- 10.45 Dr. Günter Strittmatter, Head of Research and Development, KWS SAAT AG  
**Plant Breeding Today and Tomorrow**

11.30 Brunch Buffet

#### SESSION 1: ANNUAL AND PERENNIAL LIFE HISTORY

- 12.30 Prof. Dr. George Coupland, Max Planck Institute for Plant Breeding Research  
**Divergence of Annual and Perennial Flowering Behaviour in *Brassicaceae***  
13.05 Prof. Dr. Johanna Schmitt, University of California  
**Mapping Life History Responses to Climate in *Arabidopsis thaliana***  
13.40 Prof. Dr. Christian Jung, University of Kiel  
**The Life Cycle of Sugar Beet and its Wild Relatives: Surprising Findings and Application for Crop Improvement**

14.15 Coffee Break

#### SESSION 2: C<sub>4</sub> PHOTOSYNTHESIS

- 14.35 Prof. Dr. Rowan Sage, University of Toronto  
**Dissecting C<sub>4</sub> Evolution**  
15.10 Prof. Dr. Jane Langdale, University of Oxford  
**Regulation of Kranz Anatomy in Maize**  
15.45 Prof. Dr. Peter Westhoff, Heinrich Heine University  
**Decoding Function and Development of a C<sub>4</sub> Leaf**

#### KEY NOTE LECTURE 1

- 16.20 Prof. Dr. Stephen Long, University of Illinois  
**Food, Feed and Fuel from Crops under Global Atmospheric Change. Could we have it all in 2030?**

17.05 CONCLUDING REMARKS

#### SESSION 3: PLANT MICROBE INTERACTIONS

- 09.00 Prof. Dr. Laura Rose, Heinrich Heine University  
**What's Going on in There? A Peek at the Secret Life Inside of Plants**  
09.30 Prof. Dr. Julia Vorholt, ETH Zürich  
**Life on Leaves: Commonality in Diversity**  
10.10 Prof. Dr. Francis M. Martin, INRA Nancy  
**Exploring the Genome Diversity of Mycorrhizal Fungi to Understand the Evolution and Functioning of Mutualistic Symbioses**

10.45 Coffee Break

#### SESSION 4: METABOLIC INTERACTIONS

- 11.00 Prof. Dr. Ulf-Ingo Flügge, University of Cologne  
**Plant Metabolism: From Biotic Challenges to Synthetic Biology**  
11.35 Prof. Dr. Barbara Ann Halkier, University of Copenhagen  
**Transport and Pathway Engineering of Glucosinolates**  
12.10 Prof. Dr. Natalia Doudareva, Purdue University  
**New Insights into the Regulation of Carbon Flux toward Primary and Secondary Metabolites in Plants**

#### KEY NOTE LECTURE 2

- 12.45 Prof. Dr. Birger Lindberg Møller, University of Copenhagen  
**Light Driven Synthesis of Secondary Metabolites in the Chloroplast**

13.30 CONCLUDING REMARKS

FRIDAY MAY 3<sup>rd</sup> 2013  
Heinrich Heine University Düsseldorf, Lecture Hall 6B