

# SPP1530 Team Meeting/Workshop: Pleiotropic effects of Flowering Time Genes and Impact on Adaptation and Speciation

January 21-23, 2013

Venue: Max-Planck Institute for Plant Breeding Research (MIPZ), Carl-von-Linné-Str. 10, D-50829 Köln

## Monday, January 21

### Welcome:

14.00-14.15

George Coupland (Director Max-Planck Institute for Plant Breeding Research, Cologne) and Christian Jung (Coordinator PP1530, Director Plant Breeding Institute, Christian-Albrechts-University, Kiel)

### Session 1:

#### Comparative studies of flowering time genes across species, *Chair: Maria Albani*

##### *Keynote lecture:*

14.15-15.00

**Timo Hytonen** (University Helsinki, Helsinki, Finland):

**Regulation of flowering in Rosaceae -same genes in different context**

15.00-15.30

**Yuan Guo** (Plant Breeding Institute, Christian-Albrechts-University, Kiel): **TILLING suggests pleiotropic effects related to EMS-generated alleles of flowering genes in the allopolyploid *Brassica napus***

15.30-16.00

**Maria von Korff** (Max-Planck Institute for Plant Breeding Research, Cologne): **Mutations in the circadian clock ortholog HvELF3 facilitates short-season adaptation in barley**

16:00-16:30

Coffee break (30 min)

16.30-17.00

**Claire Perilleux** (Université de Liège): **Functional conservation of FLC activity between root chicory (*Cichorium intybus* var. *sativum*) and *Arabidopsis***

17.00-17.30

**Yiguo Hong** (University Warwick, Warwick): **Florigen signalling in flowering and increased productivity**

17.30-18.00

**Hans Hoenicka** (vTI, Inst. For Forest Genetics, Grosshansdorf): **Pleiotropic effects of „flowering“ genes in transgenic poplar**

18.00-18.30

**Christina Kühn** (Humboldt-University Berlin): **The role of an Indeterminate1-like protein in floral induction and tuberization in potato plants**



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## Tuesday, January 22

### SESSION 2 : Flowering time genes and their role in crop evolution, *Chair: Maria von Korff*

#### Keynote lecture:

9:30 – 10.15

**Robbie Waugh** (James Hutton Institute, Dundee, UK):

#### Adaptation of barley to new environments

10.15 – 10.45

**Ana Casas** (Department of Genetics and Plant Production, Aula Dei Experimental Station, EEAD-CSIC, Zaragoza): **Barley adaptation. Lessons learned from landraces will help to cope with climate change**

10:45-11.15

**Wiebke Sannemann** (Rheinische Friedrich Wilhelms-University Bonn), **Flowering time in a MAGIC population in barley**

11:15-12:00

Coffee break (45 min)

12.00-12:30

**Nina Pfeiffer** (Plant Breeding Institute, Christian-Albrechts-University, Kiel), **Genetic and phenotypic characterization of bolting failure in *Beta vulgaris***

12:30-13.00

**Nadine Dally** Plant Breeding Institute, Christian-Albrechts-University, Kiel): **New bolting genes from sugar beet (*B. vulgaris*) which control early bolting independent of BvBTC1**

13.00-14.00

Lunch (DiPalma Kantine @MPIPZ)



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## Session 3: Pleiotropic Effects of Arabidopsis flowering pathways/genes, Chair: Christian Jung

### Keynote lecture:

14.00-14.45

**Maarten Koornneef** (Max-Planck Institute for Plant Breeding Research, Cologne):

**Arabidopsis Natural Variation: Epistasis of Flowering Time Alleles Reveals A New Function For An Old Gene**

14:45-15:15

**Fernando Andres** (Max-Planck Institute for Plant Breeding Research, Cologne):

**Photoperiodic signals activate the gibberellin pathway to accelerate flowering in Arabidopsis**

15:15-15:45

**Liangyu Liu** (Max-Planck Institute for Plant Breeding Research, Cologne): **A distant enhancer controls Flowering Locus T in Arabidopsis**

15:45-16:15

Coffee break (30 min)

16:15-16:45

**Ute Höcker** (University of Cologne): **SPA-mediated protein degradation in flowering time control and photomorphogenesis**

16:45-17:15

**Peter Huijser** (Max-Planck Institute for Plant Breeding Research, Cologne): **Redeployment of SPL genes beyond the vegetative-to-reproductive phase transition**

17.15-18:00

Poster Session

in-town evening Brauhaus Pääffgen,

19.00- open end

**Address: Friesenstraße 64, 50670 Cologne**

**Please be prepared to pay for drinks yourself.**



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## Wednesday, January 23

### SESSION 4: Flowering time genes and Adaptation to different environments, *Chair: Seth Davis*

- 9.00-9:30 **Claus Schwechheimer** (Wissenschaftszentrum Weihenstephan, TU München): **Cross-repressive interactions between SOC1 and the GATA factors GNC and GNL/CGA1 in the control of greening, cold tolerance and flowering time in *Arabidopsis***
- 9:30-10.00 **Benedikt Drosse** (Max-Planck Institute for Plant Breeding Research, Cologne): **Whole Transcriptome Profiling in Barley Shoot Apices During Floral Transition**
- 10:00-10:30 **Susan Duncan** (John Innes Centre, Norwich): **An Increased Vernalization Temperature Optimum at the Northerly Limit of the *Arabidopsis* Range**
- 10.30-11.00 **Amaury de Montaigu** (Max-Planck Institute for Plant Breeding Research, Cologne): **Phenotypic impact of natural variation in diurnal gene expression waveforms**
- 11.00-11.30 Coffee break (30 min)
- Keynote lecture:**
- 11.30 – 12.30 **Cynthia Weinig**, (University of Wyoming, Laramie, USA):  
**Characterizing the circadian clock in seasonal settings**
- 12.30-13.00 Closing Remarks, Comments
- 13.00 Lunch (Sandwiches), End of official Meeting part, start of confidential part: SPP1530 2<sup>nd</sup> Annual Consortium Meeting

