



SPP1530 Symposium: Genetic Variation of Flowering Time Genes and Applications for Crop Improvement

March 24-26, 2014

Venue: Bielefeld University, Universitätsstraße 25, D33615 Bielefeld

Monday, March 24, 2014

14.00-14.15

Welcome:

Dorothee Staiger (Host) and Christian Jung (Coordinator PP1530)

SESSION 1: Gene expression networks, signaling pathways and epigenetic regulation

Chair: Christian Jung

14.15-15.00

Keynote lecture

Richard Amasino (Dept. of Biochemistry, University of Wisconsin, Madison, USA): Vernalization systems in *Arabidopsis* and *Brachypodium*

15.00-15.20

Seth Davis (University of York): The evening complex of *Arabidopsis* and Barley: circadian control of flowering

15.20-15.40

Maria von Korff (MPIPZ, Cologne): Bulk segregant mapping reveals a novel flowering time regulator in barley

15.40-16.00

Ralf Müller-Xing (Heinrich Heine University Düsseldorf): Polycomb-group proteins and FLOWERING LOCUS T maintain commitment to flowering in *Arabidopsis thaliana*

16.00-16.40

Coffee break (40 min)

16.40-17.00

Mikael Johansson (Bielefeld University): Involvement of SRR1 in flowering time control

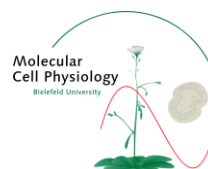
17.00-17.20

Ivo Grosse (Martin Luther University Halle Wittenberg): tba

17.20-19.20

Poster Session

Authors at posters from 17.30-18.30





Tuesday, March 25, 2014

SESSION 2 : Common and distinct evolutionary pathways

Chair: Klaus Pillen

8.30-9.15

Keynote lecture

Ove Nilsson (Umea Plant Science Centre, Umea, Sweden): Photoperiodic regulation of plant growth and development in *Arabidopsis*, sugar beet and aspen trees - same problem - different solutions

9.15-9.35

Nadine Dally (Christian Albrechts University of Kiel): Identification of the second bolting locus B2 and its role in flowering time control in beet

9.35-10.20

Keynote lecture

George Coupland (Max-Planck Institute for Plant Breeding Research, Cologne, Germany): Seasonal flowering in related annual and perennial species

10.20-11.00

Coffee break (40 min)

SESSION 3 : Flowering time regulation in perennials

Chair: Dorothee Staiger

11.00-11.20

Iris Fechter (Julius Kühn Institute, Institute for Grapevine Breeding Geilweilerhof): QTL analysis for flowering time in grapevine shows additive effects

11.20-11.40

Nazgol Emrani (Christian Albrechts University of Kiel): Identification of bolting failure candidate genes in sugar beet (*Beta vulgaris*) by next generation sequencing

11.40-12.00

Katja Herrmann (IPK Gatersleben): Analysis of flowering time genes in wild *Hordeum* Taxa to infer speciation processes and promote understanding of gene function in barley

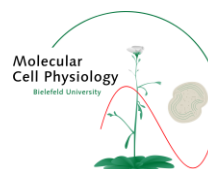
12.00-12.45

Keynote lecture

Maria Albani (Max-Planck Institute for Plant Breeding Research, Cologne, Germany): Flowering and perennialism in *Arabis alpina*

12.45-13.45

Lunch (1 h)





SESSION 4: Pleiotropic effects of flowering time regulators

Chair: Maria von Korff

13.45 -14.30

Keynote lecture

Christian Bachem (Wageningen University and Research Centre, Wageningen, The Netherlands): The gene that helped potato travel the world: StCDF1 regulates potato tuberisation and life cycle length

14.30-14.50

Juliette de Meaux (Westfälische Wilhelms University Münster): Flowering time correlates in *Arabidopsis thaliana* evolution

14.50-15.10

Sarah Schiessl (Justus Liebig University Giessen): Capturing clues to complex trait control: variation among flowering time genes in *Brassica napus*

15.10-15.30

Carlos Molina (Christian Albrechts University of Kiel): Paralog-specific function and gene expression during floral transition in oilseed rape (*Brassica napus*)

15.30-16.10

Coffee break (40 min)

16.10-16.30

Guillaume Lobet (Université de Liege): Inflorescence architecture in tomato: linking a zigzag model with gene functions

SESSION 5: Integration of endogenous and environmental factors

Chair: Ivo Grosse

16.30-17.15

Keynote lecture

Markus Schmid (Max-Planck Institute for Developmental Biology, Tübingen, Germany): Integration of flowering time signals in *Arabidopsis thaliana*

17.15-17.35

Claus Schwechheimer (Wissenschaftszentrum Weihenstephan): APETALA1 interactions with DELLAs control floral development in *Arabidopsis thaliana*

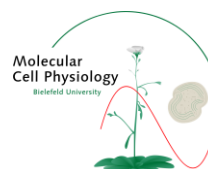
17.35-18.20

Evening Keynote lecture

Detlef Weigel (Max-Planck Institute for Developmental Biology, Tübingen, Germany): Epigenetic variation in *Arabidopsis* and relatives

19.00-22.00

Conference Dinner (buffet, Restaurant Westend, Bielefeld University)





Wednesday, March 26, 2014

SESSION 6: Control of flowering time in crops

Chair: Markus Schmid

9.00-9.45

Keynote lecture

Joe Colasanti (Dep. Plant Biology, Molecular & Cellular Biology, University of Guelph, Ontario, Canada): Mechanisms of floral induction in crop plants: flowering time and beyond

9.45-10.05

Kiyosumi Hori (National Institute of Agricultural Sciences, Tsukuba): QTLs involved in the natural variation in heading date among Asian rice cultivars

10.05-10.25

Hironori Itoh (National Institute of Agricultural Sciences, Tsukuba): Molecular mechanisms setting critical day length for florigen Hd3a expression in rice

10.25-11.00

Coffee break (35 min)

11.00-11.20

Meluleki Zikhali (John Innes Centre, Norwich): New insights into short day flowering response in bread wheat

11.20-11.40

Benedikt Digel (MIPZ, Cologne): Whole transcriptome profiling of developing barley shoot apices

11.40-12.00

Andreas Maurer (Martin-Luther University Halle-Wittenberg): Allele mining in wild barley – finding new exotic genes which control flowering time in the barley nested association mapping (NAM) population HEB-25

12.00

End of Meeting

12.15-14.00

SPP internal 3rd Annual Consortium Meeting

