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

Priority Program 1530
Flowering time control: from natural variation to crop improvement

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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)

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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 (MPIPZ, 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