



BMWF<sup>a</sup>

**GMI**  
GREGOR MENDEL INSTITUTE  
OF MOLECULAR PLANT BIOLOGY

## Adaptation Potential in Plants

### FEBS Workshop

GMI, Vienna, Austria

19-21 March 2009

### PROGRAMME

#### Day 1: 19 March 2009

- 1:00-1:15 pm            Opening remarks: Ortrun Mittelsten Scheid  
1:15-2:15 pm            Ivan Matic (Introductory lecture)  
*Environmental tuning of mutation rates*
- Session 1: Genetic Mechanisms: Chair – Karel Riha**
- 2:15-3:00 pm            Luca Comai (Keynote lecture)  
*Genetic and molecular factors affecting success of newly  
formed polyploids*
- 3:00-3:40 pm            Thomas Mitchell-Olds  
*Evolution and fitness of complex trait loci in nature*
- 3:40-4:10 pm            Coffee break
- 4:10-4:50 pm            Magnus Nordborg  
*Genome-wide association studies in Arabidopsis*
- 4:50-5:10 pm            Roosa Laitinen  
*A single locus causing F1 hybrid incompatibilities in  
Arabidopsis thaliana*
- 5:10-5:30 pm            Ovidiu Paun  
*Genetic and epigenetic responses driving adaptation after  
allopolyploidization in Dactylorhiza (Orchidaceae)*
- 5:30-6:10 pm            Susan Lolle  
*Sex! Who needs it? Can hotheads vary without it?*
- 6:30-8:15 pm            Workshop banquet
- 8:30-9:30 pm            Bill Easterling (Science & Society lecture): Chair – Maria Siomos  
*Can the world's farmers feed 10 billion people while the climate changes?*

#### Day 2: 20 March 2009

- Session 2: Epigenetic Mechanisms: Chair – Ortrun Mittelsten Scheid**
- 9:00-9:45 am            Ueli Grossniklaus (Keynote lecture)  
*A role for epigenetic inheritance in plant ecology and evolution?*
- 9:45-10:25 am            David Baulcombe  
*Imprinted expression of siRNA loci in Arabidopsis*
- 10:25-11:05 am            Andrzej Jerzmanowski  
*SWI/SNF remodeling in plants —  
Hormone signalling meets chromatin*
- 11:05-11:35 am            Coffee break

- 11:35-11:55 am Amal Johnston  
*Dosage-sensitive function of RBR and its genetic interaction with PRC2 are critical for cell fate, differentiation and genome integrity in Arabidopsis*
- 11:55 am-12:15 pm Brande Wulff  
*Environmentally induced dormancy in Arabidopsis – To germinate or germilate*
- 12:15-12:55 pm Eric Richards  
*Resistance gene duplication and hypermutation*
- 1:15-3:15 pm Buffet lunch + Poster session

### Session 3: Stress Signalling: Chair – Claudia Jonak

- 3:15-4:00 pm Michael Thomashow (Keynote lecture)  
*Arabidopsis cold acclimation: Configuring the low temperature transcriptome*
- 4:00-4:40 pm Laszlo Bögre  
*Signalling pathways regulating the extent and directionality of plant growth in response to environmental stress factors and during development*
- 4:40-5:20 pm Elizabeth Vierling  
*Genes and gene networks controlling tolerance to high temperature*
- 5:20-5:50 pm Coffee break
- 5:50-6:10 pm Sandy Vanderauwera  
*Role for hydrogen peroxide during abiotic stress signaling in Arabidopsis thaliana*
- 6:10-6:30 pm Antonio Fernandez Tiburcio  
*Putrescine as a signal involved in the response to freezing tolerance and cold acclimation*
- 6:30-7:10 pm Jean Molinier  
*CUL4-DDB1-DDB2 complex controls genome integrity in Arabidopsis thaliana*
- 8:30 pm Dinner at a traditional Viennese Heuriger (bus leaves at 7:45 pm) (announcement of poster prizes)

### Day 3: 21 March 2009

#### Session 4: Growth & Development: Chair – Werner Aufsatz

- 9:00-9:45 am Caroline Dean (Keynote lecture)  
*Natural variation in Arabidopsis vernalization response*
- 9:45-10:25 am Ida Ruberti  
*Molecular mechanisms of plant adaptation to canopy shade*
- 10:25-11:05 am Ferenc Nagy  
*Molecular mechanisms for phytochrome controlled signalling in Arabidopsis*
- 11:05-11:35 am Coffee break
- 11:35-11:55 am Si-Jun Zheng  
*Molecular genetic approach to the role of visual cues in butterfly oviposition behavior*

11:55 am-12:15 pm Margarete Müller  
*Local and systemic regulation of phosphate starvation responses in Arabidopsis*

12:15-12:55 pm Eva Zazimalova  
*Auxin transport through a cell: How to get into and forth*

1:15 pm Lunch