



# Programme

## 3rd Annual Meeting 2 - 4 March 2015

Evolutionary plant solutions to ecological challenges:  
Molecular mechanisms underlying adaptive traits in the *Brassicaceae* s.l.



### Monday 2 March 2015

**1.00 pm** **Registration Foyer „Haus am Dom“** Please mount **posters** in lecture room before dinner 

*Chair: Juliette de Meaux*

**2.00 pm** **Opening Remarks (Ute Krämer)**

2.15 pm Project 16 **Marcus Koch**  
„The evolutionary history of *Cochlearia* (*Brassicaceae*) in Europe: first evolutionary insights for a cold relic in a warming world“

2.45 pm Guest **Eric Schranz**  
„Interplay of polyploid- and tandem-derived gene duplicates in chemical defense and pathogen recognition“

**3.15 am** **Coffee Break**

3.45 pm Project 14 **Angela Hay**  
„Morphomechanical innovation drives explosive seed dispersal“

4.15 pm Project 3 **Stefan Wötzel**  
„Flowering time differentiation in *Arabis alpina* - Natural variation on a small spatial scale“

4.45 pm Project 17 **Wim Soppe**  
„The role of seed dormancy and longevity in the annual and perennial life cycles“

5.15 pm Project 15 **Urte Schlüter**  
„Early evolutionary steps towards C4 photosynthesis in the genus *Moricandia*“

**6.00 pm** **Dinner**

**7.30 pm** **Poster Session with Wine & Beer**

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## Tuesday 3 March 2015

### Chair: Eric Schranz

- 8.30 am Project 13 **Michal Gruntman**  
„The role of biotic interactions in determining phenotypic and genotypic variation in metal hyperaccumulation“
- 9.00 am Project 2 **Ricardo Stein**  
„Natural variation, underlying molecular basis and ecological role of metal hyperaccumulation in *Arabidopsis halleri*“
- 9.20 am Project 2 **Caroline Müller**  
„Trade-off between glucosinolate-based organic and inorganic defences in the metal hyperaccumulator *Arabidopsis halleri*“
- 9.40 am Project 2 **Stephan Höreth**  
„Mechanistic insight into metal hyperaccumulation in the model *Arabidopsis halleri*“

### 10.00 am Coffee Break

- 10.30 am Project 12 **Martin Mau**  
„Muller's ratchet and niche differentiation in sexual and apomictic lineages“
- 11.00 am Project 18 **Adrien Sicard**  
„Selfing syndrome evolution in the genus *Capsella*“
- 11.30 am Project 10 **Sara Tomiolo**  
„Phenotypic and genetic variation in *Didyma* and other *Brassicaceae* and adaptation to environmental change - a combined ecological genomic approach | **part I - ecology**“
- 11.50 am Project 10 **Dino Jolic**  
„Phenotypic and genetic variation in *Didyma* and other *Brassicaceae* and adaptation to environmental change - a combined ecological genomic approach | **part II - genomics**“

### 12.15 pm Lunch / Steering Committee Meeting

### Chair: Detlef Weigel

- 2.15 pm Project 5 **Alessia Guggisberg**  
„Edaphic adaptation in diploid *Arabidopsis*: insights from genome-wide patterns and greenhouse experiments“
- 2.35 pm Project 5 **Graham Muir**  
„What shapes the fitness of interspecific *Arabidopsis* hybrids? Progress from genome scans, reciprocal crosses, modelling and field observations“
- 2.55 pm Guest **Terezie Mandakova**  
„Textbook example of recent polyploidy in *Cardamine*: The true story“

### 3.15 pm Coffee Break

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## Tuesday 3 March 2015 (continuation)

- 3.45 pm Project 8 **Dan Koenig**  
„*Capsella* comparative genomics“
- 4.05 pm Project 8 **Polina Novikova**  
„Balancing selection in *Arabidopsis* genus“
- 4.25 pm Project 8 **Barbara Neuffer**  
„Evolutionary adaptation of Shepherd's Purse in recently colonized areas“
- 4.45 pm Joint Project **Felix Bemm**  
„The *Arabidopsis* genus sequencing project“
- 5.05 pm Workshop Discussions**
- 6.15 pm Dinner**
- 7.30 pm Social Programme: „Night Watchman Tour“ (registration required)**

## Wednesday 4 March 2015

**Chair: Marcus Koch**

- 9.00 am Guest **Martin Lysak**  
„Genome and karyotype evolution in *Brassicaceae*: news and gossip“
- 9.30 am Project 7 **Juliette de Meaux**  
„The footprint of selection on *cis*-regulatory divergence in the *Arabidopsis* genus“
- 10.00 am Coffee Break**
- 10.20 am Project 9 **Ales Pecinka**  
„Repeated evolution of heat responsiveness among *Brassicaceae* COPIA elements“
- 10.50 am Project 11 **Julie Jacquemin**  
„Implication of low genetic diversity in the two endemic species *A. pedemontana* and *A. cebennensis* on their adaptive evolution“
- 11.20 am General Assembly**
- 12.15 pm Closing Remarks**
- 12.30 pm Lunch**