

## Programme BioExploit/Eucarpia/EAPR Technology Workshop on Marker Assisted Selection: from discovery to application

Tuesday February 9<sup>th</sup>

9.30h Coffee and registration

10.00h Opening

### Session I: The Application of MAS in resistance breeding

- Jens Lübeck, Solana Research GmbH, Windeby, Germany

*Breeding in potato: an introduction on the process and the crop*

- Zoltan Bedo, Agricultural Research Institute of the Hungarian Academy of Sciences, Maltovasar, Hungary

*Use of MAS for germplasm development in wheat*

- Christiane Gebhardt, Max Planck Institute for Plant Breeding Research, Cologne, Germany

*Towards precision breeding in tetraploid potato*

- Roberto Tuberosa, Department of Agroenvironmental Sciences and Technology, University of Bologna, Bologna, Italy

*Application of MAS for resistance breeding in wheat*

### Panel discussion

*Specific applications, bottlenecks and potential solutions of MAS*

Lunch

### Session II: Marker technology

- Martin Ganai, TraitGenetics GmbH, Gatersleben, Germany

*Marker choice and Marker conversion*

- Edwin van der Vossen, Keygene N.V., Wageningen, The Netherlands

*Haplotyping*

- Chris Maliepaard/Sjaak van Heusden, Plant Breeding, Wageningen University, Wageningen, The Netherlands

*Mapping strategies*

### Panel discussion

*Bottlenecks and solutions of marker technologies and mapping strategies*

Tea break

### Session III: Presentations and demonstrations

On site visit Keygene NV, Wageningen

Dinner

Posters and Company booth

Drinks

Wednesday February 10<sup>th</sup>

8.45h Coffee

**Session IV: Breeding for durable resistance**

- Glenn Bryan, Scottish Crop Protection Institute, Dundee, United Kingdom  
*Breeding for QTLs in potato*
- Frank Ordon, Julius Kuehn-Institute, Quedlinburg, Germany  
*Development and application of molecular markers in breeding for virus resistance in cereals*

Coffee break

- Herman van Eck, Plant Breeding, Wageningen University, Wageningen, The Netherlands  
*Pyrimiding for resistance*
- Evert Jacobsen, Plant Breeding, Wageningen University, Wageningen, The Netherlands  
*Breeding by cisgenesis*

Panel discussion

*Best practices to obtain durable resistance*

Lunch

**Session V: Economic aspects of MAS in resistance breeding**

- Bodo Trognitz, Austrian Research Center Seibersdorf, Vienna, Austria  
*Nothing is for nothing. Economic aspects of marker assisted selection.*
- Viktor Korzun, KWS Lochow GmbH, Bergen, Germany  
*Marker assisted selection: applications, implementations and economic aspects in cereals breeding.*

Panel discussion

*Economic impact of MAS on resistance breeding*

Round-table discussion

15.30h Closure and tea