

Program

SUNDAY 28 June 2015

16h00 – 18h00 **WELCOME RECEPTION AND REGISTRATION**
(Location: Groot Vleeshuis, Groentenmarkt 7, Gent)

MONDAY 29 June 2015

8h00-9h00 Registration

9h00-9h15 Welcome

9h15-12h10 **SESSION MOLECULAR BREEDING I** **Chair: Renate Müller and Marie-Christine Van Labeke**

9h15-9h45 **O1.** **Renate Müller** (Denmark)
Natural transformation in plant breeding – A biotechnological platform for quality improvement of ornamental, agricultural and medicinal plants

9h45-10h05 **O2.** **Joanna Gargul** (Germany)
Molecular breeding of *Petunia hybrida* 'Famous Lilac Dark Vein' for compact growth induction by *MKS1* and *GA_{2ox}* constitutive overexpression

10h05-10h25 **O3.** **Mohammed Bendahmane** (France)
Rose Genomics: Challenges and Perspectives

10h25-10h45 **O4.** **Ilya Kirov** (Russia)
Development of cytogenetic chromosome markers in *Rosa*

10h45-11h15 **BREAK**

11h15-11h35 **O5.** **Yuanjun Ye** (China)
Development of Molecular Markers Related to Dwarf Traits of Crape Myrtle Using SLAF-seq Method

11h35-11h55 **O6.** **Victor Busov** (USA)
Awakening the sleeping beauty in a poplar tree via activation tagging

11h55-12h00 **P1.** **Barbara Ruffoni** (Italy)
Agrobacterium tumefaciens mediated transformation of *Salvia* spp

12h00-12h05 **P2.** **Heike Molenaar** (Germany)
Evaluating production-related traits in *Pelargonium zonale* as a solid foundation for introducing marker-assisted selection

12h05-12h10 **P3.** **Fadi Chen** (China)
Rapid genetic and epigenetic alterations under intergeneric genomic shock in newly synthesized *Chrysanthemum morifolium* × *Leucanthemum paludosum* hybrids (Asteraceae)

12h10-12h30 **ISHS and EUCARPIA**

12h10-12h20 **Margrethe Serek** (Germany)
International Society Horticultural Science

12h20-12h30 **Richard Visser** (The Netherlands)
Eucarpia

12h30-13h30	LUNCH
13h30-15h15	SESSION FLOWER Chair: Scott Hodges and Stefaan Werbroeck
13h30-14h00	O7. Scott Hodges (USA) The evolution and ecology of floral morphology in <i>Aquilegia</i> and the influence of horticulture on its emergence as a model system
14h00-14h20	O8. Olga Schulga (Russia) Chrysanthemum modification via ectopic expression of sunflower MADS-box gene <i>HAM59</i>
14h20-14h40	O9. Anne Behrend (Germany) <i>Calluna vulgaris</i> bud bloomers: Where have all the stamens gone?
14h40-15h00	O10. Rosanna Freyre (USA) Breeding and genetic studies of <i>Ruellia</i> at the University of Florida
15h00-15h05	P10. Nobuo Kobayashi (Japan) <i>AGAMOUS</i> mutations of double flower cultivars in Japanese azaleas
15h05-15h10	P11. Jiafu Jiang (China) <i>CmFTL2</i> is involved in photoperiod and sucrose control of flowering time in chrysanthemum
15h10-15h15	P12. Kento Hosokawa (Japan) Comparative expression analysis of five floral homeotic genes including newly isolated genes homologous to <i>PISTILLATA</i> and <i>SEPALLATA3</i> among four flowering cherries, <i>Prunus lannesiana</i> var. <i>speciosa</i> and three <i>P. lannesiana</i> cultivars
15h15-15h30	EUCARPIA BUSINESS MEETING
15h15-16h15	BREAK + POSTER SESSION
16h15-17h30	PLENARY SESSION Chair: Jaap van Tuyl and Johan Van Huylenbroeck
16h15-16h45	O11. Jaap van Tuyl (The Netherlands) Learning from breakthroughs in domesticating lily species: past present and future of ornamental breeding
16h45-17h15	O12. Anke van den Hurk (The Netherlands) Implementation of the Nagoya Protocol in the EU and the ornamental breeding sector
17h15-17h30	O13. Robert Wacker (The Netherlands) Use of new technologies in the graphical industry to protect intellectual property and to detect product piracy
17h30-19h00	BELGIAN EVENING RECEPTION

TUESDAY 30 June 2015

8h00-9h00 Registration

9h00-10h30 **SESSION PLANT MORPHOLOGY** Chair: **Ottoline Leyser and Maurice De Proft**

- 9h00-9h30 **O14.** **Ottoline Leyser** (United Kingdom)
Hormonal control of shoot branching
- 9h30-9h50 **O15.** **Camille Li-Marchetti** (France)
Effects of Genotype x Environment interaction on plant architecture in rose
Marcus Linde (Germany)
- 9h50-10h10 **O16.** Allelic variants of strigolactone pathway genes shape the plant architecture: a study on the inheritance of horticultural traits in chrysanthemum
Robrecht Dierck (Belgium)
- 10h10-10h30 **O17.** Hormonal and genetic regulation of axillary bud outgrowth in *Chrysanthemum morifolium* during floral initiation
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10h30-11h00 **BREAK**

11h00-12h00 **PARALLEL SESSION STRESS** Chair: **Teresa Orlikowska and Maurice De Proft**

- 11h00-11h20 **O18.** **Dália Carvalho** (Portugal)
QTL analysis for stomatal functionality in tetraploid *Rosa × hybrida* grown at high relative air humidity
- 11h20-11h40 **O19.** **Geert van Geest** (The Netherlands)
Can phenotyping for water balance improve breeding for vase life?
Fadi Chen (China)
- 11h40-11h45 **P25.** Chrysanthemum WRKY gene *CmWRKY17* negatively regulates salt stress tolerance in transgenic chrysanthemum and *Arabidopsis* plants
Ji Hyun Kim (South Korea)
- 11h45-11h50 **P26.** Overexpression of AtNDPK2 enhanced abiotic stress tolerance in transgenic Chrysanthemum
Lin Zhu (China)
- 11h50-11h55 **P20.** The heritability and genetic correlation in diurnally and nocturnally flowering daylilies
Flávia Lais Gomes Fortunato (Brazil)
- 11h55-12h00 **P24.** Heritability and genetic parameters for size-related traits in ornamental pepper (*Capsicum annuum* L.)
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PARALLEL BUSINESS WORKSHOP

11h00-12h30 **'Future Perspectives for Ornamental Breeding'** Chair: **Danny Geelen and Johan Van Huylbroeck**

- ❖ **Introducing biotech in your company** (Rob Dirks, Rijk Zwaan)
 - ❖ **Get more out of your breeding data** (Steven Maenhout, PROGENO)
 - ❖ **Plant breeding: what brings the future** (Thijs Simons, Plantum)
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12h00-13h30

LUNCH + POSTER SESSION

13h30-15h00

PARALLEL SESSION BIODIVERSITY

Chair: Long Chunlin and Marie-Christine Van Labeke

- 13h30-14h00 **O20.** **Chunlin Long** (China)
Biodiversity of Chinese ornamentals
- 14h00-14h20 **O21.** **Yannick De Smet** (Belgium)
Biodiversity research and plant breeding, a mutually beneficial relationship
- 14h20-14h40 **O22.** **Jon Suzuki** (USA)
Anthurium species identification in germplasm collections
- 14h40-14h45 **P36.** **Francine Cuquel** (Brazil)
Potential use of *Baccharis milleflora* DC. and *Baccharis tridentata* Vahl as ornamental cut foliage plants
- 14h45-14h50 **P37.** **Phillip Wadl** (USA)
Evaluation of hybrids of the endangered *Pityopsis ruthii*
- 14h50-14h55 **P38.** **Katarzyna Kuligowska** (Denmark)
Wild *Kalanchoë* species for the development of new ornamental cultivars
- 14h55-15h00 **P39.** **Dariusz Kulus** (Poland)
Application of cryopreservation for chrysanthemum genetic resources conservation
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PARALLEL BUSINESS WORKSHOP

‘Intellectual Property for Plants – Hot Topics’

Chair: Andrea Mansuino, Edgar Krieger and Johan Van Huylbroeck

13h30-15h00

- ❖ General introduction on today's IP-situation
 - ❖ Minimum Distance – how similar should varieties be?
 - ❖ Essentially Derived Varieties – are all mutants and GMO EDV?
 - ❖ Patents for plant innovations – evil or blessing?
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15h00-15h30

BREAK

15h30-17h00

Visit Institute for Agricultural and Fisheries Research (ILVO)

19h00-23h00

SYMPOSIUM DINNER

WEDNESDAY 1 July 2015

8h00-9h00 Registration

9h00-10h30

SESSION MOLECULAR BREEDING II Chair: Jochen Kumlehn and Danny Geelen

- 9h00-9h30 **O23.** **Jochen Kumlehn** (Germany)
Synthetic endonucleases: Novel tools for site-directed genetic modification of plants
- 9h30-9h50 **O24.** **Nico De Storme** (Belgium)
Male apomixis: an alternative strategy to synthetically engineer clonal seed formation in plants
- 9h50-10h10 **O25.** **Philipp Braun** (Germany)
Cytological investigations in Midday flowers (Aizoaceae) reveal high DNA contents in different somatic tissues and occurrence of unreduced male gametes
- 10h10-10h30 **O26.** **Yike Gao** (China)
Haploid culture of Chrysanthemum
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- 10h30-11h00 **BREAK**
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11h00-12h15

SESSION BREEDING Chair: Traud Winkelmann and Erik Van Bockstaele

- 11h00-11h20 **O27.** **Traud Winkelmann** (Germany)
Interspecific hybridisation in the genus *Helleborus*
- 11h20-11h40 **O28.** **Elizanilda Ramalho do Rêgo** (Brazil)
Methodological basis and advances for ornamental breeding pepper program in Brazil
- 11h40-11h45 **P54.** **Yanchao Guo** (China)
New members of the Iridaceae family: Interspecific hybridization between *Iris dichotoma* and *I. domestica*
- 11h45-11h50 **P55.** **Annalisa Giovannini** (Italy)
Interspecific crosses in *Passiflora* to obtain new hybrids with ornamental value
- 11h50-11h55 **P56.** **Agathe Le Gloanic** (France)
Interspecific hybridization in the tribe Genisteae with immature fruit rescue in vitro culture
- 11h55-12h00 **P57.** **Vivian Loges** (Brazil)
Morphological aspects in *Heliconia chartacea* inflorescences for use as cut flower
- 12h00-12h05 **P58.** **Simas Gliozeris** (Lithuania)
New ornamental *Lophospermum* hybrids through interspecific hybridization
- 12h05-12h10 **P59.** **Esin Ari** (Turkey)
Selection of the best Black Mondo (*Ophiopogon planiscapus* 'Nigrescens') clone in tissue culture conditions for micropropagation
- 12h10-12h15 **P60.** **José Mejía-Muñoz** (Mexico)
Interspecific hybridization between *Dahlia dissecta* and *D. rupicola*

12h15-13h30

LUNCH

13h30-15h40

SESSION DISEASE RESISTANCE

Chair: Monica Höfte and Bruno Gobin

13h30-14h00

O29. **Monica Höfte** (Belgium)
Basal and inducible disease resistance mechanisms in ornamentals

Gil Luypaert (Belgium)

14h00-14h20

O30. Opportunities to breed for broad mite resistance in *Rhododendron simsii* hybrids

Harue Shinoyama (Japan)

14h20-14h40

O31. Transgenic chrysanthemum (*Chrysanthemum morifolium* Ramat.) carrying both insect and disease resistance

Rusli Ibrahim (Malaysia)

14h40-15h00

O32. Induction of insect resistance in *Dendrobium mirbellianum* using ion beam irradiation

Yiqian Fu (The Netherlands)

15h00-15h20

O33. Can a candidate gene approach bridge the gap between QTL analysis and marker-assisted selection for Botrytis resistance in Gerbera?

15h20-15h40

O34. **Juliane Geike** (Germany)
Targeted Mutagenesis of MLO-Homologous Genes in the Rose Genome

15h40-17h00

CLOSURE AND CLOSURE DRINK

THURSDAY 2 July 2015

8h00 – 16h00

POST-SYMPOSIUM TOUR

(Departure and Arrival: Ghent, François Laurentplein)