



THIRD ANNOUNCEMENT
23rd EUCARPIA SYMPOSIUM - Section Ornamentals
“Colourful Breeding and Genetics”

www.ornamentalbreeding.nl

to be held in Leiden, The Netherlands, August 31 - September 4, 2009

Monday 31 August

- ✓ *Welcome reception and registration*
 - 16.00-20.00 Registration
 - 18.00-20.00 Welcome reception

Tuesday 1 September

- 7.30-12.00 Registration
- 8.30-8.35 Opening by Jaap van Tuyl
- ✓ *Introduction and Biodiversity and Convention of Biological Diversity (CBD)treaty* **Chair: Dik de Vries**
 - 8.35-9.00 **Doeke Faber** (Chairman, Dutch Flower Auctions Association, NL) Ornamental horticulture: where does it end?
 - 9.00-9.30 **Orlando de Ponti** (President International Seed Federation, ISF) Access to Biodiversity: New Rules of the Game
 - 9.30-9.50 **Birte Lorenzen**: Access and benefit-sharing under the CBD - what consequences might an international regime have for the horticultural sector?
 - 9.50-10.10 **Leila Samiei**: In search of genetic variation in *Rosa foetida* Hermann in Iran
 - 10.10-10.30 **Qinglin Liu**: Biodiversity and ornamental plant breeding in China
 - 10.30-11.00 Coffee/tea break
- ✓ *Flower colour* **Chair: Alain Cadic**
 - 11.00-11.30 **Yoshikazu Tanaka**: The long, winding genetic modification path to more colourful flowers; blue, red and yellow
 - 11.30-11.50 **Ellen De Keyser**: Flower colour as a model in azalea for integration of phenotype, genotype and gene expression
 - 11.50-12.10 **Virginia Gitonga**: Inheritance of determinants of flower colour in tetraploid roses
 - 12.10-12.20 **Rob Bogers**: ISHS-presentation
 - 12.20-13.30 Lunch

✓ **Interspecific hybridization and polyploidy** **Chair: Jaap van Tuyl**

- **13.30-14.00 Masahiro Mii:** Breeding of ornamental plants through interspecific hybridization using advanced techniques with a special focus on *Dianthus*, *Primula*, *Cosmos* and *Kalanchoe*
- **14.00-14.20 Mark Bridgen:** Interspecific hybridization of *Alstroemeria* for the development of new, ornamental plants
- **14.20-14.40 Tom Eeckhaut:** Morphological and anatomical characterisation of chemically induced polyploids in *Spathiphyllum wallisii*
- **14.40-15.00 Gildas Gâteblé:** Advances in *Oxera* Breeding
- **15.00-15.20 Valéry Malécot:** Polymorphic ITS as a tool to identify hybrids and their parents in cultivated Genisteae (Fabaceae)
- **15.20-15.40 Ed Morgan:** Generating and delivering novelty in ornamental crops through interspecific hybridization: some examples

- **15.40-16.10 Coffee/tea break**

✓ **Short presentations**

Chair: Antonio Mercuri

- **16.10-16.15 Rodrigo Barba-Gonzalez:** Chromosome identification on the genus *Lilium* using comparative genomic *in situ* hybridization (CGISH)
- **16.15-16.20 Matteo Caser:** Discriminating capacity of nucleotide binding site (NBS) and *MYB* gene profiling for genetic analysis of *Campanula* ecotypes
- **16.20-16.25 Malgorzata Czernicka:** Verification of the hybrid character of interspecific *Rhododendron* progeny by molecular tools
- **16.25-16.30 Emmy Dhooghe:** Production and characterization of intergeneric hybrids between *Anemone coronaria* and *Ranunculus asiaticus*
- **16.30-16.35 Marisé Borja:** Breeding system of *Glandularia* species native to Argentina
- **16.35-16.40 Yoon-Jung Hwang:** Library construction from micro dissection of chromosome #1 in lily (*L. lancifolium*)
- **16.40-16.45 Agnieszka Marasek:** Introgression breeding in genus *Tulipa* analysed by GISH
- **16.45-16.50 Jiten Sharma:** Morphological and molecular characterization of intergeneric hybrids between the orchid genera *Renanthera* and *Vanda*
- **16.50-16.55 Anta Sparinska:** Diversity in *Rosa rugosa* x *Rosa hybrida* interspecific varietie
- **16.55-17.00 Werachai Tera-arisiri:** Breeding for resistance and biocontrol of wilt disease in *Curcuma alismatifolia* Gagnep. by *Bacillus* spp.

- **17.00-17.15 Meeting of EUCARPIA board and members**

Wednesday 2 September

✓ *Resistance breeding*

Chair: Teresa Orlikowska

- **8.30-9.00 Thomas Debener:** Current strategies and future prospects of resistance breeding in ornamentals
- **9.00-9.20 Arwa Shahin:** Conversion of molecular markers linked to *Fusarium* and virus resistance in Asiatic hybrid lilies
- **9.20-9.40 Carole Koning- Boucoiran:** Specific mapping of disease resistance genes in tetraploid cut roses
- **9.40-10.00 Antra Balode:** Breeding for resistance against *Botrytis* in lily
- **10.00-10.20 Kullanart Obsuwan:** A dysfunctional CymMV movement protein gene confers resistance to CymMV in *Dendrobium* orchid
- **10.30-10.50 Coffee/tea break**

✓ *Plant Breeder's Rights*

Chair: Lidwien Dubois

- **10.50-11.20 Judith Blokland:** Can we still take the breeder's exemption for granted?
- **11.20-11.40 Ben Vosman:** Essentially derived varieties in ornamentals
- **11.40-12.00 René Smulders:** Analysis of a database of DNA profiles of 734 hybrid tea rose varieties
- **12.00-12.30** Discussion panel with Judith Blokland, Ben Vosman, René Smulders and Lidwien Dubois
- **12.10-13.30 Lunch**

✓ *Breeding and Genetics*

Chair: Johan Van Huylenbroeck

- **13.30-14.00 Riana Kleynhans** Back to basics for new crop development
- **14.00-14.20 Neil Anderson:** Development of colored, non-vernalization-requiring seed propagated lilies
- **14.20-14.40 Dik de Vries:** Growth and development of cut rose clones; indirect selection for yield
- **14.40-15.00 Kell Kristiansen:** In vitro mutagenesis of *Aster novi-belgii* cultivars
- **15.00-15.20 Lazaro Peres:** Breeding the tomato micro-tom model system for ornamental value
- **15.20-15.40 Leen Leus:** Flow cytometry for plant breeding
- **15.40-16.10 Coffee/tea break**

✓ *Short presentations*

Chair: Sjoukje Heimovaara

- **16.10-16.15 Pejman Azadi:** A protocol for high rate *Agrobacterium*-mediated transformation of *Lilium*

- o **16.15-16.20 Renate Müller:** Transformation with *rol*-genes of *Agrobacterium rhizogenes* as a strategy to breed compact ornamental plants with improved postharvest quality
- o **16.20-16.25 Antonio Mercuri:** New genotypes of *Hibiscus rosa-sinensis* through classical breeding and genetic transformation
- o **16.25-16.30 Tae-Ho Han:** Investigation of the factors affecting cross-fertilization rate in rose
- o **16.30-16.35 Supuk Mahattanapuk:** Cloning of the ACC synthase gene from *Curcuma alismatifolia* Gagnep and its use in transformation studies
- o **16.35-16.40 Mohsen Mardi:** Assessing *Rosa persica* genetic diversity using amplified fragment length polymorphisms analysis
- o **16.40-16.45 Norihiro Ohtsubo:** Redesigning floral architecture: Efficient modification of agronomic traits by CRES-T
- o **16.45-16.50 Cristina Borghi:** *Kalanchoe x houghtonii*: SSH and microarray analysis to screen genes involved in vivipary
- o **16.50-16.55 Luca Pipino:** Pollen characteristics affect seed production of rose cultivars
- o **16.55-17.00 Hanneke Witsenboer:** Application of crops[®] technology in a wide range of vegetable and field crops

✓ **Symposium dinner 19.00-21.00**

Thursday 3 September: Excursion day

✓ ***Visits to auctions and at least 2 breeding companies (4 tours)***

Tour 1 Aalsmeer region

Auction Aalsmeer

Hilverda De Boer (cash&carry)

Hilverda Kooij (Alstroemeria & Dianthus)

Florist De Kwakel (Gerbera)

Tour 2 Westland region

Auction Aalsmeer

Fides (Chrysanthemum & pot and bedding plants)

Beekenkamp Ornamentals (pot and bedding plants)

NAKTuinbouw (Plant diagnostics & breeding rights)

Tour 3 Syngenta, North Holland region

Auction Aalsmeer

Syngenta Flower (bedding plants)

Syngenta Seed (Vegetables)

Tour 4 Research, Wageningen region

Auction Naaldwijk

Plant Science Group (Wageningen Univ. and Research Centre)

Keygene (Molecular Markers)

Friday 4 September

✓ *Marketing*

Chair: Thijs Simons

- **8.30-9.00 Susanne Lux:** Cooperative marketing – a way to stimulate sales and consumption of a plant?
- **9.00-9.30 Paul Roetenberg:** The brand: Frederique's Choice
- **9.30-10.10 Coffee/tea break**

Molecular Breeding

Chair: Thomas Debener

- **10.10-10.30 Olga Shulga:** Early-flowering transgenic *Chrysanthemum* plants
- **10.30-10.50 Phopgao Buddharak:** Isolation and transformation of *DFR* genes in *Curcuma alismatifolia* and *Clitoria ternatea* via *Agrobacterium tumefaciens*
- **10.50-11.10 Frans Krens:** Oriental lily hybrids engineered to resist aphid attack
- **11.10-11.30 Supatida Sirisawat:** *DMMADS4*, A *DEF*-like gene from *Dendrobium* is required for floral organ identity and flower longevity of orchid
- **11.30-11.50 Marina Laura:** Over-expression and silencing of *KXHKN5* gene in *Kalanchoe x houghtonii*
- **11.50-12.10 Marisé Borja:** Expression of an *Arabidopsis* aspartic protease in *Pelargonium*
- **12.10-13.30 Lunch**

✓ *Workshop: molecular markers and their use in ornamentals*

- **13.30-13.50 Jan De Riek:** Overview of present use of molecular markers in ornamental Breeding
- **13.50-14.10 Paul Arens:** How to develop markers that can be used for identification of ornamental crops
- **14.10-14.30 Sjaak van Heusden:** What do all the new developments in marker- and sequence technology mean for the use of markers in ornamentals?
- **14.30-14.40 Hanneke Witsenboer:** The potential role of Marker Assisted Selection in breeding varieties
- **14.40-15.10 Coffee/tea break**
- **15.10-15.40 Round table discussion with all presenters of workshop**
- **15.40-15.50 Closure by Alain Cadic**