



3rd National Vegetable Grafting Symposium **Growing New Roots for the Vegetable Industry in the U.S.**



Thursday January 8, 2015
Savannah International Trade & Convention Center (SITCC)
1 International Drive, Savannah, GA 31402

Session 1. Overview of Vegetable Grafting Today

Moderator: Erin Roskopf, USDA-ARS

- 8:30am-8:45am** **Welcome** – Frank Louws, North Carolina State University
- 8:45am-9:15am** **Tomato grafting in the U.S.** – Matthew Kleinhenz, The Ohio State University
- 9:15am-9:45am** **Cucurbit grafting in the U.S.** – Richard Hassell, Clemson University
- 9:45am-10:15am** **Overview of grafting in Italy** – Giovanna Causarano, Centro Seia

Break and Poster Viewing

10:15am-10:45am **Poster presentations** – U.S. research programs, seed companies and suppliers, international programs and companies (refreshments served)

Session 2. Propagation for Grafting

Moderator: Richard Hassell, Clemson University

- 10:45am-11:15am** **Inter-specific Cucurbita rootstock** – Roni Cohen, The Agricultural Research Organization of Israel
- 11:15am-11:45am** **How a seed company makes the decision for breeding and marketing of rootstock** – Kazutoshi Kasuya, American Takii
- 11:45am-12:05pm** **Rootstock trials- What we look for at Johnny's Selected Seeds** – Andrew Mefferd, Johnny's Selected Seeds
- 12:05pm-12:25pm** **Overview of propagation technology developments** – Chieri Kubota, University of Arizona
- 12:25pm-12:55pm** **Propagation Panel:** Erin Roskopf, USDA-ARS, Florida (moderator); Giovanna Causarano, Centro Seia; Kazutoshi Kasuya, American Takii; Roni Cohen, ARO, Israel; Ricardo Hernández, Grafted Growers; Gregg Opgenorth, Plug Connection; Chieri Kubota, University of Arizona; Andrew Mefferd, Johnny's Selected Seeds

Lunch and Poster Viewing

12:55pm-2:00pm **All participants** (included in registration)

Full Conference Program:
<http://www.seregionalconference.com>

USDA-SCRI-Grafting Team Website:
<http://www.vegetablegrafting.org>

Support is provided by USDA-National Institute of Food and Agriculture (NIFA) (Specialty Crop Research Initiative Award # 2011-51181-30963; "Development of Grafting Technology to Improve Sustainability and Competitiveness of the U.S. Fruiting Vegetable Industry"), institutions participating in that project and their collaborators.

Session 3. Grafting Production Systems

Moderator: Chieri Kubota, University of Arizona

- 2:00pm-2:30pm** **Overview of cucurbit grafting in Israel** – Roni Cohen, The Agricultural Research Organization of Israel
- 2:30pm-2:50pm** **Using grafted watermelon plants for fresh market production** – Dan Van Groningen, Van Groningen and Sons
- 2:50pm-3:10pm** **Using grafted plants for high tunnel tomato production in the Midwest** - Frank Gieringer, Gieringer's Orchard
- 3:10pm-3:30pm** **Tomato production successes and challenges in large-scale field production** – Randall Patterson, Patterson Farms
- 3:30pm-4:00pm** **Production Systems Panel:** Josh Freeman, University of Florida (moderator); Dan Van Groningen, Van Groningen and Sons; Randall Patterson, Patterson Farms; Nancy Roe, Farming Systems Research Inc.; Frank Gieringer, Gieringer's Orchard

Posters

At least 12 posters covering many grafting-production topics will be available for viewing.

Reception

4:00pm-6:00pm **Poster Presentations and Exhibits**

****PAT and CCA continuing education (CEU) credits may be available****

Note: Exhibits and posters will be displayed for easy viewing during breaks, lunch and the reception.

The symposium is proudly being held in conjunction with the SE Regional Fruit & Vegetable Conference on January 8-11, 2014 at the Savannah International Trade & Convention Center, Savannah, Georgia.



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Exhibitors

Johnny's Selected Seeds
Grafted Growers
Hybec USA
ISO Group
Plug Connection
SuperNaturals Grafted Vegetables
TriEst Ag Group

Sponsors

American Takii
Grafted Growers
Rijk Zwaan
Syngenta
TriEst Ag Group

Posters

- 1. Weed management in grafted vs. non-grafted fresh market tomato** -- Sushila Chaudhari, Katie M. Jennings, David W. Monks, Christopher C. Gunter and Frank J. Louws, North Carolina State University
- 2. Rootstock age after fatty alcohol treatment affects success of a new watermelon grafting method (absent rootstock cotyledon)** -- Shawna Daley and Richard Hassell, Clemson University Coastal Research and Education Center
- 3. Research to real world: developing a successful on-farm watermelon grafting operation using fatty alcohol technology** – Shawna Daley, Clemson University Coastal Research and Education Center
- 4. Sucker control of tomato seedlings by fatty alcohol application** -- Tomomi Eguchi and Chieri Kubota, The University of Arizona
- 5. Multiple measures reveal that pre- and post-grafting light levels influence the healing rate but not survival of grafted tomato seedlings** – Bizhen Hu, Joshua Blakeslee, Peter Ling, Mark Bennett and Matt Kleinhenz, The Ohio State University
- 6. Variety selection for grafted tomato production: relative seedling vigor, compatibility and on-farm yield** -- Bizhen Hu, Jennifer Moyseenko, Stephanie Short, Sonia Walker and Matt Kleinhenz, The Ohio State University
- 7. Tomato rootstock resistance to bacterial wilt as modulated by grafting and NC regional isolates** -- Jonathan P. Kressin, Emily J. Silverman, Frank J. Louws and Dilip R. Panthee, North Carolina State University
- 8. The effects of leaf removal on adventitious root formation and plant growth of grafted tomatoes grafting with hybrid rootstocks to increase tomato productivity in the Great Plains** -- Lani Meyer, Megan Kennelly, Karen Garrett, Ari Jumponnen and Cary Rivard, Kansas State University

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9. Grafting and storage effects on quality of fresh cut watermelon fries – Penny Perkins-Veazie, David Suchoff, Jonathon Schultheis, North Carolina State University; Richard Hassell, Clemson University

10. Rhizobiome responses to new tomato rootstock systems – Ravin Poudel, Ari Jumponen, Cary Rivard, Megan Kennelly and Karen Garrett, Kansas State University

11. Managing bacterial wilt of tomato with grafting in North Carolina – Emily Silverman, James G. Driver, Jonathan Kressin, Frank J. Louws, and Dlip Panthee North Carolina State University

12. Yield enhancement and nitrogen use efficiency in grafted watermelon: fact or fiction? -- David H. Suchoff, Christopher C. Gunter, Jonathon R. Schultheis, Frank J. Louws, and Brian E. Jackson, North Carolina State University; Richard Hassell, Clemson University Coastal Research and Education Center

13. Evaluation of watermelon rootstocks for resistance to verticillium wilt in Northwestern Washington, U.S. -- J. Wimer, Carol Miles and Debra Inglis, Washington State University

14. An economic analysis of grafted tomato production under different planting densities -- Xin Zhao, Zhifeng Gao, and Zack Black, University of Florida

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