



4th National Vegetable Grafting Symposium **Growing New Roots for the Vegetable Industry in the U.S.**



Monday, December 7, 2015

DeVos Place Convention Center and the Amway Grand Plaza Hotel
187 Monroe Avenue NW, Grand Rapids 49503

Session 1. Overview of Vegetable Grafting Today

Moderator: Frank Louws, North Carolina State University

- 8:30am-8:45am** **Welcome** - Frank Louws, North Carolina State University
- 8:45am-9:15am** **Overview of vegetable grafting in the U.S.** - Chieri Kubota, University of Arizona
- 9:15am-9:45am** **Current status of vegetable grafting in Mediterranean basin** - Amnon Koren, Hishtil

Break and Poster/Exhibit Viewing

9:45am-10:00am **Poster presentations** - U.S. research programs, seed companies and suppliers, international programs and companies (refreshments served)

Session 2. Propagation for Grafting

Moderator: Erin Roskopf, USDA-ARS

- 10:00am-10:30am** **Grafting for Agriculture** –Hande Saganak, Plug Connection
- 10:30am-10:50am** **Grafting propagation in Mexico** – Pharis Rico, Planatanova, Mexico
- 10:50am-11:10am** **The importance of rootstock and scion virus resistance compatibility for vegetable grafting** – Erin Roskopf, USDA-ARS
- 11:10am-11:30am** **Overview of propagation technology developments** - Richard Hassell, Clemson University
- 11:30pm-12:00pm** **Propagation Panel:** Erin Roskopf, USDA-ARS (moderator); Benjamin Hinson, Tri-Hishtil; Amnon Koren, Hishtil; Hande Saganak, Plug Connection; Richard Hassell, Clemson University; Chieri Kubota, University of Arizona

Lunch and Poster/Exhibit Viewing

12:00pm-1:00pm **All participants** (included in registration)

Session 3. Grafting Production Systems

Moderator: Matthew Kleinhenz, Ohio State University

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

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

This material is based upon work that is supported by the National Institute of Food and Agriculture, U.S. Department of Agriculture, Specialty Crops Research Initiative under award Number 2011-51181-30963. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.

- 1:00pm-1:30pm** **Watermelon: past, present and future trends in the U.S. market** - Dean Liere, Syngenta
- 1:30pm-2:00pm** **9 years of grafted tomato production under high tunnels** - Kaitlin Dye, Cedar Meadow Farm
- 2:00pm-2:30pm** **Will grafted vegetables save my farm? This farmer thinks he has an answer** - Alan Schreiber, Schreiber and Sons Farm
- 2:30pm-3:00pm** **Commercial production of grafted watermelon in Guatemala** - Samuel Alberto Hernandez Cardona, Agrocap, S.A.
- 3:00pm-3:30pm** **Production Systems Panel:** Josh Freeman, University of Florida (moderator); Dean Liere, Syngenta; Ronen Notkin, Martori Farms; Samuel Alberto Hernandez Cardona, Agrocap, S.A.; Kaitlin Dye, Cedar Meadow Farm; Alan Schreiber, Schreiber and Sons Farm

Break and Poster/Exhibit Viewing

- 3:30pm-4:00pm** **Poster presentations** - U.S. research programs, seed companies and suppliers, international programs and companies (refreshments served)

Advisory Meeting for the USDA-SCRI Vegetable Grafting Project

4:00pm-6:00pm

****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.

These session will give you a chance to talk with researchers, seed and breeding companies as well as other industry representatives that are working collaboratively to develop vegetable grafting technology in the United States. The posters will feature information related to the propagation and utilization of grafted vegetables for various production systems. Grab a cup of coffee and talk to the folks who are working in this emerging area.

The symposium is proudly being held in conjunction with the Great Lakes Fruit, Vegetable and Farm Market Expo on December 8-10, 2015 at the DeVos Place Convention Center and the Amway Grand Plaza Hotel, Grand Rapids, MI 49503.

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Exhibitors

Enza Zaden
Grafted Growers
GrowGroup
Plantanova
Plug Connection
Re-DiVined
Tri-Histil

Sponsors

Enza Zaden
Grafted Growers
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Rijk Zwaan
Syngenta
Tri-Hishtil

Posters

- 1. Effect of grafting and fertilizer source on tomato yield and fruit quality in high tunnel production** – Fairuz Buajaila, Patti Kreider and Carol Miles, Washington State University
- 2. Determining the effect of grafting on the critical period for weed control in triploid watermelon** – Matt Bertucci, Katie Jennings, David Monks, David Jordan, Frank Louws and Jonathon Schultheis, North Carolina State University
- 3. Increasing survival of grafted watermelon transplants** – Sahar Dabirian, Patti Kreider, Ed Scheenstra and Carol Miles, Washington State University
- 4. Performance of grafted watermelon plants in semi-arid cropping systems in Arizona** – Mark Kroggel and Chieri Kubota, University of Arizona
- 5. Non-grafted and grafted seedless watermelon transplants: comparative economic feasibility analysis** – Suzette Galinato and Carol Miles, Washington State University

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- 6. Grafted tomato yield: what role does scion vigor play?** – Cordelia Hall, Elizabeth Buck, Nelson Hoover and Judson Reid, Cornell University
- 7. Light intensity and temperature effects on the regrowth of newly-grafted tomato plants in growth chambers** – Bizhen Hu, Peter Ling and Matt Kleinhenz, The Ohio State University
- 8. Preliminary test of plant growth regulators (NAA and BA) on healing and plant growth resumption of grafted tomato seedlings** – Bizhen Hu, Joshua Blakeslee, Peter Ling, Mark Bennett and Matt Kleinhenz, The Ohio State University
- 9. Evaluating potential cucurbit and tomato rootstocks for resistance to *Verticillium dahlia*** – Debra Inglis, Babette Gundersen, Sahar Dabirian and Carol Miles, Washington State University
- 10. A meta-analysis of grafted tomato trials to determine rootstock performance in high tunnels** – David Loewen, L. Meyer, and C. Rivard, Kansas State University
- 11. Grafting with hybrid rootstocks to increase tomato productivity in the Great Plains** – Lani Meyer, R. Poudel, H. Chiebao, K. Garrett, A. Jumpponen, J. Griffin, E. Pliakoni, M. Kennelly, and C. Rivard, Kansas State University
- 12. Evaluation of grafted and non-grafted hybrid and heirloom tomatoes in a Midwest high tunnel production system** – Kristine Neu and Ajay Nair, Iowa State University
- 13. Value added products with watermelon** – P. Perkins-Veazie, North Carolina State University
- 14. A new firmness tester system to evaluate grafted watermelon flesh firmness** – P. Perkins-Veazie, J. Schultheis, R. Hassell and M. Bertucci, North Carolina State University
- 15. Assessing economic impact of grafted transplants on tomato growers** – Olya Rysin and Frank Louws, North Carolina State University
- 16. Silicon latex clips and glue in securing the union of newly splice-grafted pepper plants and their effect on plant survival and growth** – Mahmoud Soltan, Farouk El-Aidy and Matthew Kleinhenz, The Ohio State University
- 17. Characterization of root systems in tomato and tomato rootstocks through the use of mini-Horhizotron technology** – David Suchoff, North Carolina State University
- 18. Grafting to improve specialty tomato production in an organically managed high tunnel system** – Xin Zhao, Dustin Huff and Laila Khandaker, University of Florida

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