

# International Symposium on Vegetable Grafting

University of Tuscia  
Italy  
3-5 Oct., 2011

## DRAFT PROGRAMME

Organized by



*University of Tuscia  
Viterbo, Italy*



*Institute of Vegetable  
& Ornamental Crops  
Großbeeren, Germany*

Sponsors



Camera di Commercio  
Savona

Centro Regionale di Sperimentazione e Assistenza Agricola



MONSANTO



**International Symposium on Vegetable Grafting**  
University of Tuscia, 3 – 5 Oct., 2011

<b>Monday 3 October, 2011</b>		
<b>Symposium Opening</b>		
<b>Chairmen: Giuseppe Colla &amp; Dietmar Schwarz</b>		
<b>Time</b>	<b>Description</b>	<b>Speaker</b>
14:00-15:00	Registration of participants and poster set-up	
15:00-15:30	Welcome to participants on behalf of Conveners and sponsor presentation	Dr. Giuseppe Colla
	Welcome to participants from the Rector of Tuscia University	Prof. Marco Mancini
	Welcome to participants from the President of Vegetable Crop Section belonging to the Italian Society of Horticultural Science	Prof. Antonio Elia
<b>Section 1. Grafting techniques and transplant quality</b>		
<b>Chair: Jung-Myung Lee &amp; Cherubino Leonardi</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
15:30-16:00	Factors affecting the quality of grafted vegetable transplants	[1] Jung-Myung Lee
16:00-16:30	Current topics and technical development in fully-automatic grafting robot in Japan	[2] Keita Yoshinaga
16:30-16:45	A new grafting technology applied to tomato plants for an effective seedborne disease management	[3] Giovanna Causarano
16:45-17:00	Acclimatization of grafted-cuttings with warming graft union at controlled low-air-temperature	[4] Toshio Shibuya
17:00-17:15	Use of chlorophyll fluorescence imaging as diagnostic technique to predict compatibility in grafted melon	[5] Angeles Calatayud
17:15-17:30	Use of unrooted grafted cuttings and low temperature storage – potential ways to advance vegetable grafting in the United States	[6] Chieri Kubota
17:30-17:45	Discussion	
17:45-18:10	Coffee Break	
<b>Section 2. Genetics and rootstock breeding</b>		
<b>Chairmen: Athanasios S. Tsaftaris &amp; Paola Crinò</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
18:10-18:40	Selection and breeding for robust rootstocks as tool to improve abiotic stress tolerance	[7] Jan Henk Venema
18:40-18:55	Molecular mechanisms underlining pepper fruit shape changes in relation to grafting	[8] Athanasios S. Tsaftaris
18:55-19:10	Current status and prospects of cucurbit rootstock breeding in China	[9] Yang Xingping
19:10-19:25	Discussion	
20:00	Welcome Cocktail Party	

**International Symposium on Vegetable Grafting**  
University of Tuscia, 3 – 5 Oct., 2011

<b>Tuesday 4 October, 2011</b>		
<b>Section 3. Biotic stresses</b>		
<b>Chairmen: Frank J. Louws &amp; Roni Cohen</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
9:00-9:30	Integration of grafting technologies into tomato production systems in North Carolina USA	[10] Frank J. Louws
9:30-9:45	Critical aspect of grafting as strategy to control soil-borne pathogens	[11] Giovanna Gilardi
9:45-10:00	Grafting tomatoes for the management of bacterial wilt and root-knot nematodes	[12] Theodore McAvoy
10:00-10:15	Discussion	
10:15-10:40	Coffee Break	
<b>Section 4. Abiotic stresses</b>		
<b>Chairmen: Zhilong Bie &amp; Youssef Rouphael</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
10:40-11:10	Grafting to increase the tolerance to abiotic stresses	[13] Cherubino Leonardi
11:10-11:25	Preventing toxic element penetration into plants and fruits by using grafted plants	[14] Menahem Edelstein
11:25-11:40	Impact of grafting on cucumber tolerance to sodium chloride and sulfate salinity	[15] Youssef Rouphael
11:40-11:55	Does mycorrhiza improve salinity tolerance in grafted plants?	[16] Golgen B. Oztekin
11:55-12:10	Discussion	
12:10-15:00	Lunch and Poster viewing	
<b>Section 5. Scion-Rootstock interaction: Physiology</b>		
<b>Chairmen: Francisco Pérez-Alfocea &amp; Menahem Edelstein</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
15:00-15:30	Plant grafting as a mean for enhancing abiotic stress tolerance in vegetables: probing possible mechanism for grafting compatibility	[17] Benny Aloni
15:30-16:00	Use of recombinant inbred lines as rootstocks to improve resource use efficiency in vegetables: a case study of WUE in tomato	[18] Francisco Pérez-Alfocea
16:00-16:15	Evaluating the effects of root-supplied ABA and cytokinins on scion vigour and water use	[19] Ian C. Dodd
16:15-16:30	Rootstock cytokinin and abscisic acid overproduction improves tomato salinity tolerance	[20] Michel E. Ghanem
16:30-16:45	Discussion	
16:45-17:05	Coffee Break	
<b>Section 6. Scion-Rootstock interaction: Fruit quality</b>		
<b>Chairmen: Angelika Krumbein &amp; Chieri Kubota</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
17:05-17:35	Grafting - A chance to enhance flavour and health-promoting compounds in tomato fruits	[21] Angelika Krumbein
17:35-17:50	The quality of <i>Cucumis melo</i> L. var. <i>inodorus</i> and <i>reticulatus</i> fruits in relation to different rootstocks	[22] Antonella Verzera
17:50-18:05	Rootstock effects on grafted tomato plant survivorship, composition, yield and fruit quality in organic field production	[23] Matthew D. Kleinhenz
18:05-18:20	Discussion	

## International Symposium on Vegetable Grafting

University of Tuscia, 3 – 5 Oct., 2011

<b>Round table</b>		
<b>Chairmen: Dietmar Schwarz &amp; Giuseppe Colla</b>		
<b>Time</b>	<b>Title</b>	<b>Speakers</b>
18:20-19:20	Prospects of vegetable grafting and future collaborations	Researchers from public and private companies
20:00	Gala Dinner	
<b>Wednesday 5 October, 2011</b>		
<b>Time</b>	<b>Description</b>	
8:30-19:00	Technical tour	