

COST ACTION FA1204 FINAL CONFERENCE

**Vegetable Grafting to Improve Yield and Fruit
Quality under Biotic and Abiotic Stress
Conditions**

19 – 21 September 2016, Pula, Croatia

Conference Venue

Park Plaza Histria, Verudela 17, Pula, Croatia

PROGRAMME



Programme

18 September, Sunday

All day Arrivals

19 September, Monday

08:00 – 09:00 Registration

09:00 – 09:30 Official opening

09:30 – 11:00 Session 1: WG 1 Oral presentations

Chairs: Andrew J. Thompson and Halit Yetisir

09:30 – 09:45 Vegetable rootstock breeding: genetic variation and selection strategies

Thompson A.J., Bebeli P.J., Gisbert C., Belén Picó M., Yetisir H.

09:45 – 10:00 Screening of various gourd genotypes and watermelon cultivars for alkalinity tolerance under different pH levels

Ulas F., Yetisir H., Ulas A.

10:00 – 10:15 A new pepper rootstock to overcome salt stress

Penella C., Gisbert R., López-Serrano L., San Bautista A., López-Galarza S., Calatayud A.

10:15 – 10:30 Interspecific hybridization and hybrid seed yield of *Solanum Melongena* and *Solanum Aethiopicum* Lines for rootstock breeding

Saribas S., Balkaya A., Kandemir D., Secim A.

10:30 – 10:45 Citron: a promising rootstock for watermelon grafting

Belén Picó M., Pérez-de-Castro A., Cebolla-Cornejo J., Roselló S., Sorribas F., Gisbert C.

10:45 – 11:00 Breeding of rootstocks appropriate for cucumber grafting

Velkov N., Rodeva R., Markova D., Yankova V., Masheva S.

Coffee break

11:30 – 13:00 Session 2: WG 2 Oral presentations

Chairs: Jan Henk Venema and Ian C. Dodd

11:30 – 11:45 Rootstock – scion signaling: factors that mediate scion performance and graft compatibility

Venema J.H., Pina A., Dodd I.C.

11:45 – 12:00 Hormonal and nutritional responses regulate rootstock-mediated vigour under low-potassium nutrition in tomato

Martínez-Andújar C., Albacete A., Martínez-Pérez A., Pérez-Alfocea F.

12:00 – 12:15 Evaluating the role of root-to-shoot jasmonate signalling

de Ollas C., Arbona V., Gomez-Cadenas A., Dodd I.C.



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12:15 – 12:30	Proteome analysis of grafted melon response to drought stress <u>Vítámvás P., Kosová K., Smirnova T., Prášil I.T.</u>
12:30 – 12:45	Changes in the xylem sap metabolite profiles induced by the rootstock genotype in tomato <u>Albacete A., Martínez-Andújar C., Pérez-Alfocea F.</u>
12:45 – 13:00	Early detection of graft incompatibility in an apricot intraspecific population <u>Irisarri P., Errea P., Pina A.</u>
13:00 – 14:30	Lunch
14:30 – 16:00	Session III: WG 3 Oral presentations Chairs: Dietmar Schwarz and Roni Cohen
14:30 – 14:45	Physiological wilting of grafted melons: A phenomenon related to genetic material, rootstock-scion interaction and high temperatures <u>Cohen R., Edelstein M., Freeman S., Omari N., Pivonia S., Koren A., Soteriou G., Papaiannis L., Kyriacou M., Schwarz D.</u>
14:45 – 15:00	Crop management affects success of grafted beans against plant parasitic nematodes <u>Costa S.R., Mourão I., Rodrigues J.R., Moura M.L., Brito L.M.</u>
15:00 – 15:15	Cutting grafting method (RPSG) provides better stand establishment and nutrient uptake rate in salt-stressed cucumber seedlings <u>Balliu A., Sallaku G.</u>
15:15 – 15:30	Effect of grafting on photosynthetic activity during dehydration and rehydration of tomato plants <u>Georgieva K., Mihailova G., Balacheva E., Rodeva R.</u>
15:30 – 15:45	Grafting onto different rootstock genotypes alleviates salt stress in aubergine plants by activating antioxidative enzyme defense system <u>Talhouni M., Sönmez K., Ellialtıoğlu Ş.Ş., Kuşvuran S.</u>
15:45 – 16:00	Population dynamics of <i>Bemisia tabaci</i> (Gennadius) and tomato leaf anatomy as affected by rootstock <u>Žanić K., Dumičić G., Mandušić M., Vuletin Selak G., Jukić Špika M., Urlić B., Bočina I., Goreta Ban S.</u>
16:00 – 16:30	Coffee break



16:30 – 17:30

- Poster session (I, II, III)**
- 1a Selection of low temperature tolerant *Cucurbita* spp. hybrid rootstocks for cucumber (*Cucumis sativus L.*)
Karaağaç O., Doğru S.M., Kar H., Yetişir H.
- 1b Contribution of grafting to nitrogen use efficiency among different solanum species
Ulas A., Yetisir H., Ulas F., Dogancı E.
- 2a Mechanisms associated with tolerance of grafted bell pepper rootstock to low root zone temperature
Aidoo M.K., Sherman T., Fait A., Rachmilevitch S., Lazarovitch N.
- 2b The hypocotyls morphology of promising salt tolerant winter squash and pumpkin rootstock lines and grafting compatibility, survival rates with grafted cucumber
Yıldız S., Balkaya A.
- 2c Antioxidant responses to arsenic stress in grafted melon plants
Stazi S.R., Allevato E., Marabottini R., Rita Paolacci A., Ciaffi M., D'Annibale A., Giuffrida F., Leonardi C.
- 2d Effects of rootstock type and grafting-healing duration on un-rooted grafted cuttings for eggplant transplant production and shipping
Sabatino L., Iapichino G., D'Anna F.
- 3a Host reaction of bean cultivars to the root knot nematode *Meloidogyne javanica*
Pires D., Costa S., Mourão I., Almeida M.T.
- 3b Effect of tomato grafting on virus infections
Petrov N., Dikova B., Balacheva E., Stoyanova Z., Rodeva R.
- 3c Melon growth, yield and resistance against soil borne diseases as affected by grafting under un-controlled greenhouse conditions
Al-Abed A., Naser Z., Qaryouti M.
- 3d Bell Pepper Response to Low Root Zone Temperature
Aidoo M.K., Sherman T., Fait A., Lazarovitch N., Rachmilevitch S.
- 3e Effect of partial root-zone irrigation on grafted tomato mineral content and fruit quality
Urlić B., Dumičić G., Runjić M., Vuletin Selak G., Jukić Špika M., Mandušić M., Žanić K.
- 18:00 – 21:00 Social event and networking (<http://www.pulacitytour.com/hr/>)



20 September, Tuesday

09:00 – 10:30	Session IV: WG 4 Oral presentations Chairs: Cherubino Leonardì and Carmina Gisbert
09:00 – 09:15	How herbaceous grafting influences vegetable quality <i>Gisbert C., Kyriacou M., Oztekin G.B., Mourão I., Rousphael Y., Leonardì C.</i>
09:15 – 09:30	Scion/rootstock combinations influence yield and metabolic profile of tomato fruits (<i>Lycopersicum esculentum</i> Mill.) <i>Kacjan Maršić N., Šircelj H., Mikulič Petkovšek M.</i>
09:30 – 09:45	Rootstock effect on grafted green bean yield and fruit quality <i>Mourão I., Moura M.L., Costa S.R., Rodrigues J.R., Brito L.M., Ferreira M.E., Coutinho J.</i>
09:45 – 10:00	Effects of <i>Cucurbita</i> hybrid rootstocks on quality of three fruit vegetables grown under moderate saline conditions <i>Stefanoni W., Rousphael Y., Cardarelli M., Barbetti B., Colla G.</i>
10:00 – 10:15	Preventing entry of pharmaceuticals (carbamazepine) into the food chain by using grafted plants <i>Edelstein M., Ben-Hur M., Ju-Young Y., Bernstein N., Nasser A., Baumkoler F., Gerstl Z.</i>
10:15 – 10:30	Grafting as a tool to enhance tomato fruit quality <i>Aktas H., Schwarz D.</i>
10:30 – 11:00	Poster session (IV)
4a	Simultaneous determination of heavy metals (Cr, Ni, As, Cd, Pb, Hg) in Pachino cherry tomatoes grafting on different rootstock <i>Cincotta F., Verzera A., Condurso C., Bua G.D., Annuario G., Dugo G., Paratore A.</i>
4b	Yield and quality of grafted mini watermelon [<i>Citrullus lanatus</i> (Thunb) Matsum & Nakai] cultivars <i>Soteriou G.A., Kyriacou M.C.</i>
4c	The implications of grafting for watermelon and melon fruit quality <i>Kyriacou M.C., Soteriou G.A.</i>
4d	Technological features and elements of economic efficiency regarding the semi-automatic grafting of vegetables <i>Bogescu M., Vintila M.</i>
4e	Grafting influences the fate of arsenic in melon plants <i>Allevato E., Marabottini R., Stazi S.R., Giuffrida F., Leonardi C.</i>
11:00 – 11:30	<i>Coffee break</i>



11:30 – 13:00	Session V: Round table - (<i>connection of science and industry</i>) Chairs: Jan Henk Venema, Francisco Pérez Alfocea, and Smiljana Goreta Ban
11:30 – 11:45	Grafted vegetable transplants and viral threats: effective solution or emerging complication <u>Koren A., Klein E.</u>
11:45 – 12:00	Our international grafting venture: current challenges and future opportunity <u>Causarano G.</u>
12:00 – 12:30	<i>Discussion on practical implementation and transfer of knowledge</i>
12:30 – 13:00	<i>Presentations of current projects, plans for future research and networking</i>
13:00 – 14:30	<i>Lunch</i>
14:30 – 16:00	Session VI: STSMs – Achievements and outcomes Chair: Dimitrios Savvas
14:30 – 14:45	Contribution of Short Term Scientific Missions to the scientific objectives of COST FA1204 <u>Savvas D.</u>
14:45 – 15:00	Alleviating aluminium toxicity and adverse effects of low pH in vegetables by grafting onto suitable rootstocks <u>Rouphael Y., Colla G., Cardarelli M., Bitterlich M., Porras M.E., Kläring H.P., Schwarz D.</u>
15:00 – 15:15	Interactions of grafting and shading in a greenhouse pepper crop <u>Sabatino L., Ropokis A., Bernabei G., Ntatsi G., D'Anna F., Katsoulas N., Savvas D.</u>
15:15 – 15:30	Response of some cucurbit genotypes to salinity stress <u>Topalova E., Böhm V., Tüzel Y., Öztekin G.B., Velkov N., Petkova V., Kappel N.</u>
15:30 – 15:45	Is cadmium tolerance root- or shoot-controlled in grafting pea plants? <u>Sanoubar R., Orsini F., Gianquinto G., Dodd I.</u>
15:45 – 16:00	The COST Action FA1204 database: A simple and effective tool for vegetable growers and the scientific community <u>Celli T., Rouphael Y., Ntatsi G., Fiorillo A., Colla G.</u>
16:00 – 16:30	<i>Coffee break</i>
16:30 – 17:30	Conclusions and closing Book presentation Closing remarks
18:00 – 22:00	Social event and networking (http://www.histriaaromatica.hr/index.php?ln=EN)



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21 September, Wednesday All day technical visit

- 09:00 – 20:00 Leaving Pula
Visit to vegetable nursery – owner Ivan Dušan
Visit to IPTPO vinery: <http://www.iptpo.hr/>
Visit to cabbage processing facility
<http://www.ciburiproduct.hr/>
Networking at Agroturizam „Ograde“
<http://agroturizam-ograde.hr/>