Management Committee Meeting

COST Action no. FA1204

Venue Berlin, September 15, 2015 from 16:00 to 19:00



AGENDA

- 1. Welcome to participants
- 2. Adoption of agenda
- 3. Update from the Action Chair
 - a. Status of Action
 - b. Action budget status
- 4. Update from the STSM Coordinator about STSM status and new applications
- 5. Follow-up of MoU objectives
- a. Progress report of working groups by WG leaders
- b. Database COST FA1204
- 6. Scientific planning (Scientific strategy and activities)
- Steering Committee Meeting and workshop in Netherland (Wageningen UR -Greenhouse Horticulture – Bleiswijk 18th-19th April 2016)
- b. 2nd Training School "Root to shoot communication" in Netherland (Wageningen UR Greenhouse Horticulture 19th-21st April 2016).
- c. Final Dissemination Conference in Croatia (Pula 19th-21st September 2016)
- a. Book and Final Action Dissemination (FAD)
- 7. Summary of MC decisions
- 8. Closing

Timetable

Activity	2015		2016	
	1-5	6-12	1-5	6-9
SG-MC/WG meetings	Antalya		Wageningen - Bleiswijk	
MC/WG meetings		Berlin		
STSMs	Х	Х	X	X
Training School			Wageningen	
Website and dissemination	X	Х	X	X
Final Conference				Pula
Final Book				X

b. Action budget status

Financial Period: CGA-FA1204-3 From 2015/06/01 to 2016/09/30 YFR deadline date, Tuesday 29 November 2016

A. COST Networking Tools EUR					
(1) MEETINGS 115.000,0					
Annual Conf Berlin (DE) MC Meeting+WG Meeting 3days	48.000,00				
Workshop/WGSG - University of Groningen (NL) 2 days	19.000,00				
Final Conference Pula - Croatia 3 days	48.000,00				
(2) TRAINING SCHOOL (NL) 3 days	15.000,00				
(3) SHORT-TERM SCIENTIFIC MISSIONS	15.000,00				
(4) DISSEMINATION 2.000,00					
(5) OERSA 1406,					
B. TOTAL SCIENCE EXPENDITURE (sum of (1) to (5))					
. FSAC (15% of B.) 22.260,91					
D. TOTAL EXPENDITURE (B+C) 170.667,00					
Allocated Action budget by COST Association: 170 667.00 EUR					

MoU objective	Achieved Yes/	Evidence of (partial) achievement including hyperlink to enable assessment of the achievement. Justification if full achievement is not forseen
	Partially/No	
1) to list the current	Partially	Enhancement of the knowledge on current genetic variability existing in each vegetable species
genetic variability	·	and interesting germplasm for developing new rootstocks and ongoing breeding programs.
existing in each		Current genetic variability has been listed during the Meetings and in particular during the
vegetable species		meeting in Antalya, Turkey (see book of abstracts, meeting reports and power point presentations
as well as the		in COST Action Website). Moreover, round tables with stakeholder (breeding companies, and
current breeding		nurseries) have been organized during the Murcia and Antalya meeting in order to improve the
programs in COST		network and to understand the needs of specific rootstock breeding programs. Questionaires
and no-COST		have been submitted to stakeholders for meeting the above goals (see questionaries in COST
countries		Action Website). Finally, the WG is summarizing the knowledge on germplasm and breeding
		program for developing new rootstocks in two chapters of the COST Book on vegetable grafting
		(chapter 2 -Genetic resources for vegetable rootstock breeding; chapter 3 - Rootstock breeding:
		current practices and future technologies and breeding goals).
2) to define major	Partially	Improvement of the knowledge about rootstock-scion interaction responsible for the success of
physiological and		rootstock-scion compatibility. Scion-rootstock interaction has been presented during all COST
genetic		Meetings and especially during the meeting in Jerusalem, Israel (see book of abstracts, meeting
determinants of		reports and power point presentations in COST Action Website). Moreover, round tables with
root and shoot		stakeholder (breeding companies, and nurseries) have been organized during the Murcia and
development and		Antalya meeting in order to improve the network and to understand the scion-rootstock
compatibility of		interaction. Questionnaires have been submitted to stakeholders for meeting the above goals (see
rootstock-scion		questionnaires in COST Action Website). Finally, the WG is summarizing the knowledge on scion-
		rootstock interaction and grafting compatibility in two chapters of the COST Book on vegetable
		grafting (chapter 4 - Rootstock-scion signalling: rootstock-mediated key factors for scion
		performance; chapter 5 - Physiological and molecular mechanisms underlying graft compatibility).

MoU objective		Evidence of (partial) achievement including hyperlink to enable assessment of the achievement. Justification if full achievement is not forseen
3) to determine the	Partially	Enhancement of the knowledge about the rootstock mediated improvements of (a)biotic stress
current status of		resistance in grafted plants. Mitigation of biotic and abiotic stresses in grafted plants has been
knowledge about		presented during all COST Meetings and especially during the meeting in Jerusalem, Israel (see
rootstock-mediated		book of abstracts, meeting report in COST Action Website). A protocol controlling pathogens for
crop improvement		producing high quality grafted plants in nursery has been presented (see presentation in COST
so as to mitigate the		Action Website). Moreover, round tables with stakeholder (breeding companies, and nurseries)
impact of biotic,		have been organized during the meetings in order to improve the network and to understand the
abiotic and		most critical stress factors to be addressed though rootstock breeding programs. Questionnaires
combined stresses,		have been submitted to WG participants on the use of grafted plants in each country to cope
thus improving		with environmental stresses (see questionnaires in COST Action Website). Finally, the WG is
resource use		summarizing the knowledge in one chapter of the COST Book on vegetable grafting (chapter 6 -
efficiency		Rootstock-mediated resistance to environmental stresses).
•	Partially	Improvement of the knowledge about the influence of rootstock on nutritional quality. Effects of
of rootstocks on fruit		rootstocks on fruit quality and shelf life have been presented during all COST Meetings and
quality in order to		especially during the meeting in Antalya, Turkey (see book of abstracts, and meeting reports in
define strategies for		COST Action Website). During the meetings, nutraceutical value and aroma compounds of fruits
a better		have been emphasized especially in melon and watermelon. Moreover, round tables with
understanding and		stakeholder (breeding companies, and nurseries) have been organized during the Murcia and
exploitation of the		Antalya meeting in order to improve the network and to understand the most critical quality
signalling processes		aspects to be addressed though rootstock breeding programs. Questionnaires have been
involved		submitted to WG participants for gathering information concerning the most important quality
		aspects influenced by grafting (see questionnaires in COST Action Website). Finally, the WG is summarizing the knowledge in one chapter of the COST Book on vegetable grafting (chapter 7-Fruit quality).

MoU objective		Evidence of (partial) achievement including hyperlink to enable assessment of the achievement. Justification if full achievement is not forseen
5) to create an international database with the information generated by the COST Action	Partially	The final structures of database has been designed in its final version in May 2015. The Editorial board started to collect information by all WG and their Members and encode them in the database. First outputs will be presented in Berlin at the Annual Conference (Sept. 2015) (see database structure in COST Action Website)
6) to define classical and biotechnological breeding strategies to prepare the generation of new rootstocks improving desirable traits in crop varieties of selected species	Partially	Classical and biotechnological breeding strategies are being reported in chapter 3 – 'Rootstock breeding: current practices and future technologies and breeding goals' of the COST book. Additional information has been presented during COST Meetings (see book of abstracts in COST Action Website).
7) to transfer available knowledge into the practice		The transfer knowledge is an on going dissemination activity promoted especially though meetings, training schools and STSMs. During the COST Action, the following events have been organized to promote the transfer of available knowledge on vegetable grafting: 5 meetings with the participation of all the stakeholders involved (see book of abstracts and conference reports in COST Action Website), a training school on vegetable grafting in Catania (Italy) with 15 participants (see training school report in COST Action Website), and 14 STSMs (see report STSMs in COST Action Website). Moreover, two dissemination events have been carried out to promote interaction with scientists from COST Action FA1105 'Biogreenhouse' (presentation at the 2nd International Symposium on Organic Greenhouse held in Avignon from 28 to 31 Oct. 2013 - https://www.amiando.com/OGH Symposium2013.html) and with scientists from China and other East Asian Countries (presentation at 1st International Symposium on Vegetable Grafting - ISVG2014 held in Wuhan, Hubei Province (China) from March 17, to 21, 2014 - http://www.ishs.org/ishs-book/1086). An EPSO Newsletter (N° 32 / September 2013 http://www.epsoweb.org/newsletter/newsletter-september-2013), a brochure (http://www.vegetablegrafting.unitus.it/ifile/trifold brochure cost 2014 final.pdf) have been prepared and distributed during the dissemination events and meetings, and a promotional video.

MoU objective		Evidence of (partial) achievement including hyperlink to enable assessment of the achievement. Justification if full achievement is not forseen
8) to use all the information	YES	The COST Action permitted to identify research topics and to prepare the following
collected to identify particular		research proposals: ENPI-CBCMED proposal; FACCE-ERA-NET proposal; other bilateral
topics which could be used to		research proposals.
develop new research projects		During last H2020 call for proposals SC2 SFS-5-2015 a Consortium of organisations
		mainly composed by COST Action members (12 out of 20) presented a full proposal
		after having passed the first step of selection.

MoU deliverable	Level of progress ¹	Evidence of (partial) delivery achievement including hyperlink to enable assessment of the delivery ¹ . Justification if full achievement is not forseen
D1 – Information about the current status of vegetable grafting in Europe compared with other non-COST countries.	75%	The current status of vegetable grafting in COST and non-COST Countries has been addressed during the meetings (see presentation and boot of abstracts in COST website). Moreover, the final overview of vegetable grafting in Europe and other non-COST countries will be reported in chapter 1 of COST Book (reference author Prof. Zhilong Bie from Huazhong Agricultural University, Wuhan, China).
D2 – Information about potentially interesting germplasm for developing new rootstocks.	75%	Potentially interesting germplasm for developing new rootstocks has been identified during the Meetings (see books of abstracts in COST website). Moreover, WG partecipants are currently drafting the chapter 2 entitled 'Genetic resources for vegetable rootstock breeding' where a complete view of germplasm for developing new rootstocks will be reported.
D3 – Information about current rootstock breeding activities.	75%	Current rootstock breeding strategies have been discussed during the Meetings and round tables with stakeholders (see books of abstracts in COST website). Moreover, WG partecipants are currently drafting the chapter 3 entitled 'Rootstock breeding: current practices and future technologies and breeding goals' where a complete presentation of current rootstock breeding programs will be reported.
D4 – Identification of the major physiological and genetic determinants of root and shoot development and compatibility.	75%	Major physiological and genetic determinants of root and shoot development and compatibility have been discussed during the Meetings (see books of abstracts in COST website). Several STSMs have been carried out to elucidate the scion-rootstock interaction (see STSM reports in COST website). Moreover, WG partecipants are currently writing two chapters (chapter 4 - Rootstock-scion signalling: rootstock-mediated key factors for scion performance; chapter 5 - Physiological and molecular mechanisms underlying graft compatibility) where a complete presentation of the major physiological and genetic determinants of root and shoot development and compatibility will be reported.
D5 – Identification of the main factors limiting vegetable crop productivity.	100%	

MoU deliverable		Evidence of (partial) delivery achievement including hyperlink to enable assessment of
	progress	the delivery ¹ . Justification if full achievement is not forseen
D6 – Information about rootstock effects on biotic/abiotic stress resistance and resource use efficiency.	75%	Information about rootstock effects on biotic/abiotic stress resistance and resource use efficiency have been discussed during the Meetings (see books of abstracts in COST website). Several STSMs have been carried out on elucidating effects of rootstocks on (a)biotic stress resistance (see STSM reports in COST website). Moreover, WG partecipants are currently writing a chapter entitled 'Rootstock-mediated resistance to environmental stresses' where a complete description of rootstock mediated improvement of (a)biotic stress tolerance will be reported.
D7 – Information about the rootstock effects on fruit quality with particular emphasis on nutritional quality.	75%	Information about the rootstock effects on fruit quality have been discussed during the Meetings (see books of abstracts in COST website). Several STSMs have been carried out to elucidate the effects of rootstocks on fruit quality (see STSM reports in COST website). Moreover, WG partecipants are currently writing a chapter entitled 'Fruit quality' where a complete description of rootstock effects on fruit quality attributes will be reported.
D8 – Identification of further rootstock breeding strategies to generate new rootstocks and to improve desirable traits in crop varieties of selected species.	50%	Future rootstock breeding strategies have been discussed during the Meetings and round tables with stakeholders (see books of abstracts in COST website). These findings have been used to prepare a H2020 proposal in the frame of the call SC2 SFS-5-2015. Moreover, WG partecipants are currently writing the chapter 3 entitled 'Rootstock breeding: current practices and future technologies and breeding goals' where a complete presentation of rootstock breeding strategies will be reported.
D9 - Creation of a database containing the main information about vegetable grafting, available to the scientific community, private companies, vegetable growers, and other institutions.	50%	The final structures of database has been designed in its final version in May 2015. The Editorial board started to collect information by all WG and their Members and encode them in the database. First outputs will be presented in Berlin at the Annual Conference (Sept. 2015) (see database structure and two STSM reports in COST Action Website)
D10 - Providing opportunities for research groups to develop joint research programmes.	100%	
D11 - Information sharing through workshops and meetings, internet, scientific publications in journals and books	7 5%	The D11 deliverable will be fully achieved at the end of the COST Action. Three meetings, one training school, several STSMs, scientific publications and a final book are scheduled for the last part of the COST grant period (see COST website).

Book (Dr Schwarz)

Update from the STSM Coordinator about STSM status and new applications (Prof. Savvas)

Next Core group Meeting (2 days) and Training school in the Netherland (3 days) 2016 (Dr. Venema)

Final Conference in Pula, Croatia (Dr. Smiljana Goreta Ban)

Website and database (Dr. Romanelli)

Closing