COST ACTION FA 1104
‘Sustainable production of high-quality cherries for the European market’

STATUS OF THE ACTION
Chair: José Quero Garcia

4th Management Committee and all WG Meeting, 13-15 October 2014, Bordeaux, France
PRACTICAL INFORMATION

- Registration (sign attendance list EVERY day)
- Posters
- Programme
- Budget - Restaurants
- eCOST and post-meeting
- Presentations – Web site
In Memoriam – Bernard Blum (1935-2014)
Meetings-Training Schools

First reporting period (1st July 2012-30th June 2013)

Belgium, Brussels, 16-18_04_2012: 1st MC Meeting (Kick-off meeting)

Italy, Trento, 01_10_2012: WG1 Meeting: ‘Application of genomic approaches to breeding cherries’ (RGC6)

Italy, Palermo, 20-23_11_2012: 2nd MC and all WG meeting

Switzerland, Zurich, 26-27_03_2013: WG3 Meeting: ‘Advances and prospects on monitoring and modelling of Drosophila suzukii in Europe’

Greece, Chania, 29-30_04_2013: EC Meeting

Spain, Plasencia, 26_06_2013: All WG Meeting (VII Cherry Symposium)
Meetings-Training Schools

Second reporting period (1\textsuperscript{st} July 2013-30\textsuperscript{th} June 2014)

**Czech Republic**, Olomouc, 02\_09\_2013: **WG3** Meeting: ‘Detection of virus and virus-like pathogens in cherry and sour cherry’

**Romania**, Pitesti, 15-17\_10\_2013: 3rd **MC** and all **WG** meeting

**Poland**, Skierniewice, 28\_10\_2013: **WG1** Meeting: ‘Methodology of cherry gene resources management in \textit{ex situ} collections, accounting problems of viruses’

**Hungary**, Budapest, 3-5\_03\_2014: **WG1** Meeting: ‘Use of molecular markers for diversity studies’
Meetings-Training Schools

Second reporting period (1\textsuperscript{st} July 2013-30\textsuperscript{th} June 2014)

**Poland**, Warsaw, 2-3\_04\_2014: **WG3** Meeting: ‘On-farm behaviour of \textit{Rhagoletis cerasi} and \textit{Drosophila suzukii} and its modelling for enhancement of IPM’

**Norway**, Ullensvang, 28-29\_04\_2014: **WG2** Meeting: ‘Phenology and modelling’

**Portugal**, Evora, 13-16\_05\_2014: **WG2 Training School**: ‘Sensory evaluation’

**Bulgaria**, Plovdiv, 26-27\_05\_2014: **WG1-WG3** Meeting: ‘Phenotyping protocols for tolerance to cherry pests and diseases and other important agronomic traits’

**Cyprus**, Larnaca, 13\_06\_2014: **WG2** Meeting: ‘Post-harvest physiological and technological aspects of cherry fruit’ (V Post-harvest Unlimited Conference)
Meetings-Training Schools

Third reporting period (1st July 2014-30 June 2015)

**Greece**, Volos, 1-5_09_2014: **WG3 Training School**: ‘Managing cherry pests in space and time’

**Serbia**, Novi Sad, 15-17_09_2014: **WG1 Meeting**: ‘Sour cherry breeding’

**France**, Bordeaux, 13-15_10_2014: 4th **MC** and all **WG** meeting

**Germany**, Ravensburg, 9-10_12_2014: **Technology-transfer Meeting**

**Italy**, Firenze, February 2015: **WG1 Meeting**: ‘Long-term preservation of woody species by cryo techniques’

**Turkey**, Izmir, May 2015: **WG3 Meeting**: Small meeting jointly with the 2nd ISHS conference on bacterial diseases of stone fruits and nuts
Meetings-Training Schools

Third reporting period (1st July 2014-30 June 2015)

Cyprus, Larnaca, 07-10_06_2015: WG2 Training School: ‘Qualitative, physicochemical and biochemical indicators of cherry fruit quality’

France or Italy, February-March 2015, WG2 Training School: ‘Training systems and pruning’

France, Bosnia or Bulgaria, date to be confirmed, WG2 Meeting: ‘Rootstocks and training systems’

Croatia, Zagreb, date to be confirmed, WG4 Meeting: ‘Marketing and socio-economics’
THANKS TO ALL MEETING ORGANISERS!!!!!!!!!!

Dan Sergeant, Francesco Marra, Joerg Samietz, Manuel Serradilla, Joseph Spak, Sergiu Budan, Elzbieta Rozpara, Ildiko Balla, Slawomir Lux, Mekjell Meland, Ana Cristina Santos, Petja Gercheva, Nikos Papadopoulos, Vladislav Ognjanov and many others!!!
# Meetings-Training Schools

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<thead>
<tr>
<th>Country</th>
<th>Count</th>
<th>Country</th>
<th>Count</th>
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<tr>
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<td>Norway</td>
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<tr>
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<td>Poland</td>
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<td>Portugal</td>
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<td>Czech Republic</td>
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<tr>
<td>Italy</td>
<td>3 (+1?)</td>
<td>TOTAL</td>
<td>23 (17 countries)</td>
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TOTAL: 23 (17 countries)
Short-Term Scientific Missions (STSM)

First reporting period (1\textsuperscript{st} July 2012-30\textsuperscript{th} June 2013) (4)
Austria → United Kingdom (Elisabeth Schuller)
Bulgaria → Hungary (Stefan Gandev)
Bulgaria → France (Svetoslav Malchev)
Cyprus → Greece (Vlasios Goulas)

Second reporting period (1\textsuperscript{st} July 2013-30\textsuperscript{th} June 2014) (9)
Hungary → Germany (Geza Bujdoso)
Cyprus → France (Faidon Makris)
Cyprus → France (Maria Theodorou)
Spain → United Kingdom (Gregorio Lopez-Ortega)
Hungary → United Kingdom (Zsuzsanna Befi)
United Kingdom → Italy (Emma Skipper)
Poland → Switzerland (Monika Kaluzna)
United Kingdom → France (Marzena Lipska)
Spain → Azerbaijan (Gregorio Lopez-Ortega)
Third reporting period (1\textsuperscript{st} July 2014-30\textsuperscript{th} June 2015) (6)
Bulgaria → Poland (Diyana Panatoyova)
Greece → Cyprus (Evangelos Karagiannis)
Croatia → Cyprus (Marija Majstorovic)
Bulgaria → Hungary (Svetoslav Malchev)
Hungary → Bulgaria (Geza Bujdoso)
Germany → Austria (Felix Briem)
Short-Term Scientific Missions (STSM)

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<tr>
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<td>United Kingdom</td>
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<tr>
<td>TOTAL</td>
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</tr>
</tbody>
</table>

14 involved countries

5 countries particularly active, with 4 or more STSM (either as ‘sender’ or ‘receiver’)
Non-COST Countries participants

- **International Partner Countries (IPC):** Australia (Penelope Measham), New Zealand (Virginia Marroni), Argentina (Ariel Vicente), South Africa (Teresa Coutinho, SO Validation pending)

- **Near-Neighbouring Countries (NNC):** Albania (Raimonda Sevo, SO Validation pending), Azerbaijan (Mehraj Abbasov), Belarus (Natallia Valasevitch), Morocco (Ossama Kodad), Russia (Yuri Shneyder)

- Other countries? Algeria, Armenia, Egypt, Georgia, Jordan, Lebanon, Libya, Moldova, Montenegro, Palestinian Authority, Syria, Tunisia and Ukraine

In the final year of a COST Action, no requests from researchers from NNC to join an Action shall be possible.
THE CHERRY BOOK

✓ Deadline: July 2016
✓ Editors: Amy Iezzoni, Joanna Pulawska, Greg Land and José Quero Garcia
✓ Chapter outline sent. Important suggestion by Kouman Koumanov
✓ Try to link COST Tasks with the Book
✓ Specific meetings dealing with the Book topics with time devoted to the writing activities
✓ Colleagues willing to participate: Geza Bujdoso, Moritz Knoche, Karoly Hrotko, Martin Jensen, Mirko Schuster, Vladislav Ognjanov, Alex Vokurka, Daniela Giovaninni, Ana Wunsch, Kouman Koumanov, Gordana Djuric, Mario Njavro, Manfred Büchele, Monika Höfer...
THE CHERRY BOOK

I. Cherry Plant Materials, Genetic Resources, and Improvement

1- Introduction, including history and world distribution
2- Breeding resources and methods, including molecular tools
3- Sweet cherry varieties and genetic improvement programs
4- Sour cherry varieties and genetic improvement programs
5- Rootstocks and genetic improvement programs
II. Cherry Production

6 – Environmental limiting factors: Soil water and nutrient (including microbial) inputs required for growth

7 - Climatic limiting factors: temperature (winter hardiness, winter chilling requirement, spring frosts, fruit doubling), precipitation (rain-induced fruit cracking, rain-disseminated diseases), wind (and potential impacts of climate change)

8 - Site selection, planning, and infrastructure (pre-plant decisions: pollinizers, tree support, irrigation systems, protective covering systems, weed management)

9 - Tree growth habit (canopy training systems, pruning), flowering (pollination and fruit set), and fruit development (crop load management and growth regulators)
II. Cherry Production

10 - Cherry pest management (insects, mites, birds, mammals)

11 - Cherry disease management (fungi, bacteria, viruses/viroids, mycoplasmas, genetic disorders, etc.)

III. Cherry Utilization

12 - Fruit harvest methods and technologies

13 - Postharvest handling for fresh markets

14 - Processing for industrial uses

15 - Socio-economic and socio-nutritional ramifications of cherry production
<table>
<thead>
<tr>
<th>Country</th>
<th>Sweet cherry</th>
<th>Sour (Tart) cherry</th>
<th>source</th>
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<td>X</td>
<td>X</td>
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<td>Austria</td>
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<td>Spornberger</td>
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<td>Valasevich</td>
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<td>X</td>
<td>Djuric</td>
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<td>X</td>
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<td>Iezzoni</td>
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Horizon 2020

**Work programme:**
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

**SFS-7-2014/2015:**
Genetic resources and agricultural diversity for food security, productivity and resilience

**Topic:** Traditional resources for agricultural diversity and the food chain

**DivCherry**

“Cherry genetic resources for agriculture diversification to face climate, health and food challenges in marginal areas”
DivCherry

“Cherry genetic resources for agriculture diversification to face climate, health and food challenges in marginal areas”

Objectives:

1) Characterize the farming and production systems

2) Assess the genetic diversity of cherry landraces from marginal areas

3) Characterize the potential of local landraces for adaptive traits, fruit quality and nutritional properties

4) Promote selected genetic resources

5) Develop new industrial processes and food products
DivCherry

“Cherry genetic resources for agriculture diversification to face climate, health and food challenges in marginal areas”

Focused on marginal areas: mountain areas and marginal territories for cherry cultivation, in particular due to the consequences of climate change (north and south of the cultivation range).

Four years project

Coordinated by INRA

11 Countries

15 Public Institutes

8 SME
DivCherry project structure

WP0
Management of the project

WP1
Characterization of the cherry farming and production systems

WP2
Evaluation of cherry genetic diversity from marginal production areas

WP3
Unraveling the potential of local landraces to address new challenges in changing environment and food supply

WP4
Promotion of selected genetic resources and development of new industrial processes and food products

WP5
Dissemination and Communication
**WP 0: Consortium and Project Management**

Task 0.1 - Strategic Steering
Task 0.2 – Project monitoring
Task 0.3 – Consortium coordination

**WP 1: Characterization of the farming and production systems**

Task 1.1 Ecological and agronomic characterization of sweet and sour cherries in marginal production areas
Task 1.2 Socio-economic analyses of production systems

**WP 2: Evaluation of cherry genetic diversity from marginal production areas**

Task 2.1 Genetic diversity analysis of a large set of European landraces
Task 2.2 Genetic diversity of cherry populations

**WP 3: Unraveling the potential of local landraces to address new challenges in changing environment and food supply**

Task 3-1 Characterization of phenotypic traits related to adaptation to climate change and global warming
Task 3-2 Evaluation of nutritional properties and health-promoting compounds as part of phenotyping
Task 3-3 Evaluation of technological and sensory properties of cherry landraces for specific high-added value products (wine, liqueurs, jams...)

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**DivCherry project structure**
WP 4: Promotion of selected genetic resources and development of new industrial processes and food products

Task 4-1 Facilitate access to information and exchange of the most promising landraces
Task 4.2 Application of in vitro techniques to preserve and facilitate distribution of EU valuable cherry landraces
Task 4-3 Development of new industrial processes for high value products based on promising landraces and cultivars

WP 5: Dissemination and Communication

Task 5-1 Project visibility
Task 5-2 Transfer of knowledge and technology