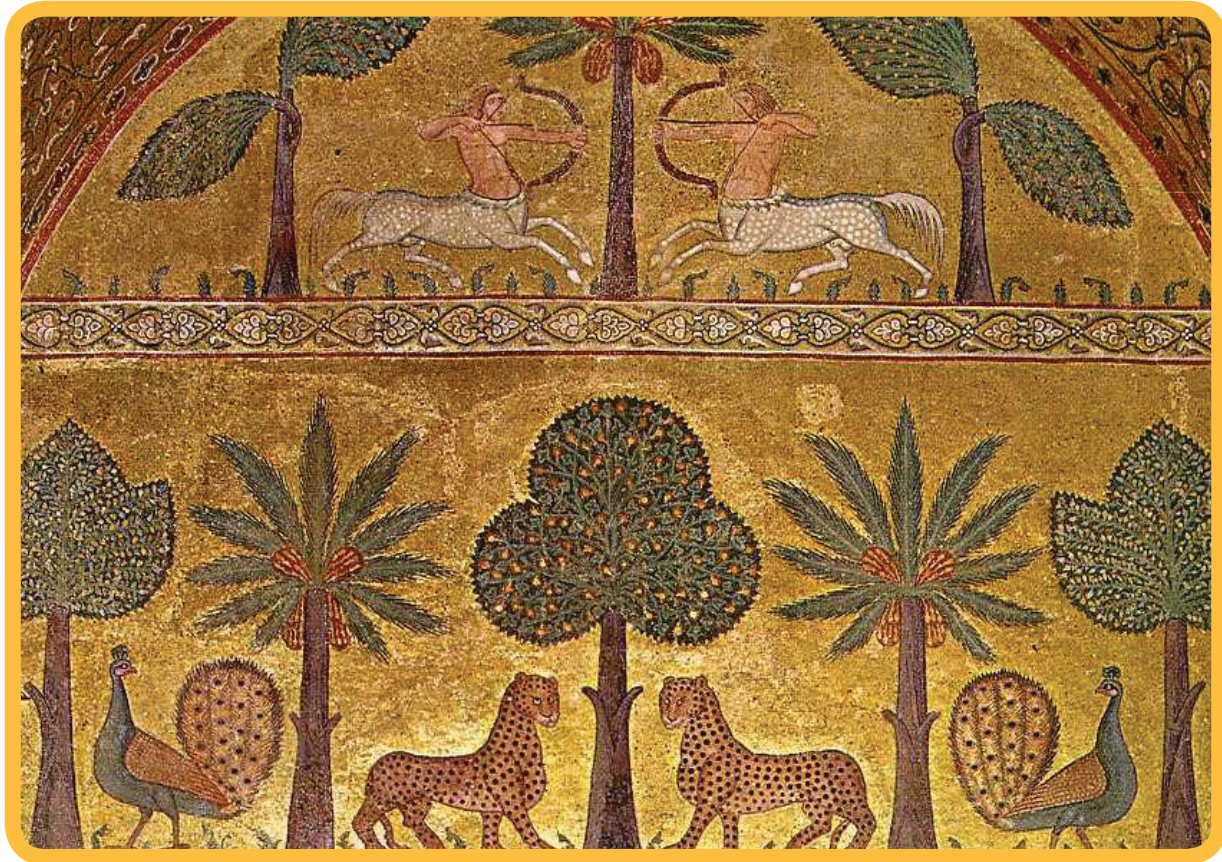


# 1<sup>st</sup> European Conference of Post graduate Horticulture Scientists

May 12-13, 2016 - Palermo - Italy

Conveners  
Prof. Paolo Inglese & Dr. Giorgia Liguori



## Book of Abstracts and Conference Program



*Dear Colleagues and friends,*

*few year ago I went to Poland with my elder son who was attending an European meeting of young post graduate students of his research field. I was surprised to see so many young fellows sharing their knowledge in an informal environment, paying very low fees. I said myself, why not doing something similar? In fact, international meetings pay very little attention to our youngest fellows and this is quite a great mistake, since many, if not most of them, are attracted by on line communities that offer a worldwide network, with fast services, no limit download of papers, daily update of new articles in the most important journal of each specific research field and, more important for them, the opportunity to let the colleagues know their papers with the final goal to improve citations. We must do something to let them be aware of the importance of creating a 'real' community, based on the opportunity of sharing time and ideas together, to improve their networking ability. 'If you can't stand your peers get out of science' this is what J. Watson wrote in Science more than 20 year ago, and I really feel social activity in science is crucial. The Network of the European Societies of Horticultural Science and then ISHS accepted our proposal and so the First European Congress for Post Graduate Horticultural Scientists is now real, based on low fees, real participation to the organization of young scientists and, hopefully, a friendly environment for their presentations. The Scientific Committee made of two senior scientists together with young scientists coming from the horticultural societies of Germany, Greece, Italy, Netherlands, Portugal, Romania, Spain chaired by prof. George Manganaris choosed the 20 papers that will be presented ad oral presentation, together with the topic of the workshop that will be held during the congress. Moreover, they will select the best papers that will be prized. This book of 60 abstracts with authors coming from 20 countries. Excellent numbers for this first edition of this new format that we hope will gain his future.*

*We welcome our young colleagues together with our 'senior' guests, particularly proff. S. Nicola, M. Rieger, B. Basile, M. Tagliavini and J. Wuensche who will give plenary lectures and prof. S. De Pascale, president of the Italian Society of Horticultural Science, that together with ISHS and the NESHS supported our efforts.*

*Paolo Inglese and Giorgia Liguori - Conveners*

## Scientific Committee

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George Manganaris	<i>President</i> Cyprus University of Technology, Cyprus
Massimo Tagliavini	Free University of Bozen-Bolzano, Italy
Chrystalla Antoniou	Cyprus University of Technology, Cyprus
Alexandra Badescu	Faculty of Horticulture, Bucharest, Romania
Pietro Gramazio	COMAV Valencia, Spain
Michael H. Hagemann	University of Hohenheim (ST), Germany
Giuseppe Pignata	Università degli Studi di Torino, Italy
Adriano Arriel Saquet	University of Lisbon, Portugal
Bart Van de Wal	Ghent University, Belgium

## Organizing Committee

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Paolo Inglese	<i>Convener</i> Network European Societies Horticultural Science
Giorgia Liguori	<i>Convener</i> Università degli Studi di Palermo - Italy
Stefania De Pascale	Società di Ortoflorofrutticoltura Italiana (SOI)
Domingos Almeida	Associação Portuguesa de Horticultura (APH)
Monique Bodson	Benelux Society for Horticultural Science (BSHS)
Jaime Prohens	Sociedad Española de Ciencias Hortícolas (SECH)
Gheorghe Glaman	Romanian Horticultural Society – Romania (RHS)
Jens Wünsche	Gartenbauwissenschaftliche Gesellschaft (DGG)

16:45 - 17:10

Sabatino L.

**Use of un-rooted grafted cuttings for eggplant plug-transplant production and shipping: effect of the grafting-healing duration on the finished transplants**

17:20 - 18:20 - Workshop

Chair: *B. Basile, University of Naples*

**The Impact of Innovations in Horticulture**

20:00

*Banquet*

## May 13, 2016

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08:30 -09:00 Plenary Lecture

*Jens Wuensche, University of Hohenheim, ISHS Board Member*

**ISHS and young minds - a future-oriented relationship**

**Session III - Phytochemical constituents & quality of horticultural produce**

*chair: Dr. Giuseppe Pignata*

09:00 - 09:25

*Barroso M., Barros L., Rodrigues M. Â, Sousa M. J., Santos-Buelga C., Ferreira I.*

**Antioxidant profile of *Stevia rebaudiana* Bertoni cultivated in Portugal and submitted to different conservation conditions**

09:25 - 09:50

*Georgoudaki T., Nanos G. D., Mitsopoulou N., Vemmos S.*

**Field variability in fruit quality and storability of Greek apple cultivar 'Pilafa Delicious'**

# **Antioxidant Profile of *Stevia rebaudiana* Bertoni Cultivated in Portugal and Submitted to Different Conservation Conditions**

Barroso M.\*<sup>1,2</sup>, Barros L.<sup>1,3</sup>, Rodrigues M.A.<sup>1</sup>, Sousa M.J.<sup>1</sup>, Santos-Buelga C.<sup>2</sup>, Isabel. Ferreira I. C.F.R.<sup>1</sup>

<sup>1</sup>*Mountain Research Centre (CIMO), ESA, Polytechnic Institute of Bragança, Portugal*

<sup>2</sup>*GIP-USAL, Facultad de Farmacia, Universidad de Salamanca, Spain*

<sup>3</sup>*Laboratory of Separation and Reaction Engineering (LSRE), Associate Laboratory LSRE/LCM, Polytechnic Institute of Bragança, Portugal*

The demand for natural sweeteners has been gaining more and more importance due to the great controversy associated with the use of some synthetic sweeteners as cyclamates, aspartame and acesulfame-K. The steviol glycosides (E 960) are a group of natural sweeteners of generalized use; these compounds are obtained from *Stevia rebaudiana* Bertoni, a sweet plant native from South America (Carocho et al., 2015). However, *Stevia rebaudiana* Bertoni may have other uses to be exploited, in particular due to its antioxidant capacity. This plant is already produced in Portugal but it is important to evaluate if the plant chemical composition is maintained regardless of culture conditions. Therefore, in this study, stevia samples were cultivated in Bragança (north-eastern of Portugal) in a field trial with defined culture conditions. After harvesting, the plants were submitted to two different treatments: kept fresh by freezing (-20°C) and oven-dried (30°C). The antioxidant profile of the samples was studied through evaluation of free radicals scavenging activity, reducing power, phenolic compounds (HPLC-DAD-ESI/MS), tocopherols (HPLC-fluorescence) and free sugars (HPLC-RI). Significant differences were observed: while oven-dried samples showed the highest antioxidant activity and phenolic compounds concentration (mainly 5-*O*-caffeoylquinic acid and 3,5-*O*-dicaffeoylquinic acid), the frozen fresh samples had the highest values of total tocopherols and total sugars. These results confirm that the plants grown in Bragança have excellent bioactive secondary metabolites responsible for the observed antioxidant capacity.

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*1<sup>st</sup> European Conference Post graduate of Horticulture Scientists*

## **To whom it may concern**

I hereby acknowledge that Mr./Mrs./Dr./Prof.

**Marisa Barroso**

attended the *1<sup>st</sup> European Conference Post graduate of Horticulture Scientists*  
held in Palermo from 12-13 May 2016.

The Conveners  
Paolo Inglese & Giorgia Liguori

Handwritten signature of Paolo Inglese in blue ink.

Handwritten signature of Giorgia Liguori in blue ink.

Palermo, 16 May 2016