

PROGRAMME

FIRST SYMPOSIUM ON HORTICULTURE IN EUROPE



VIENNA, AUSTRIA

17th – 20th February 2008

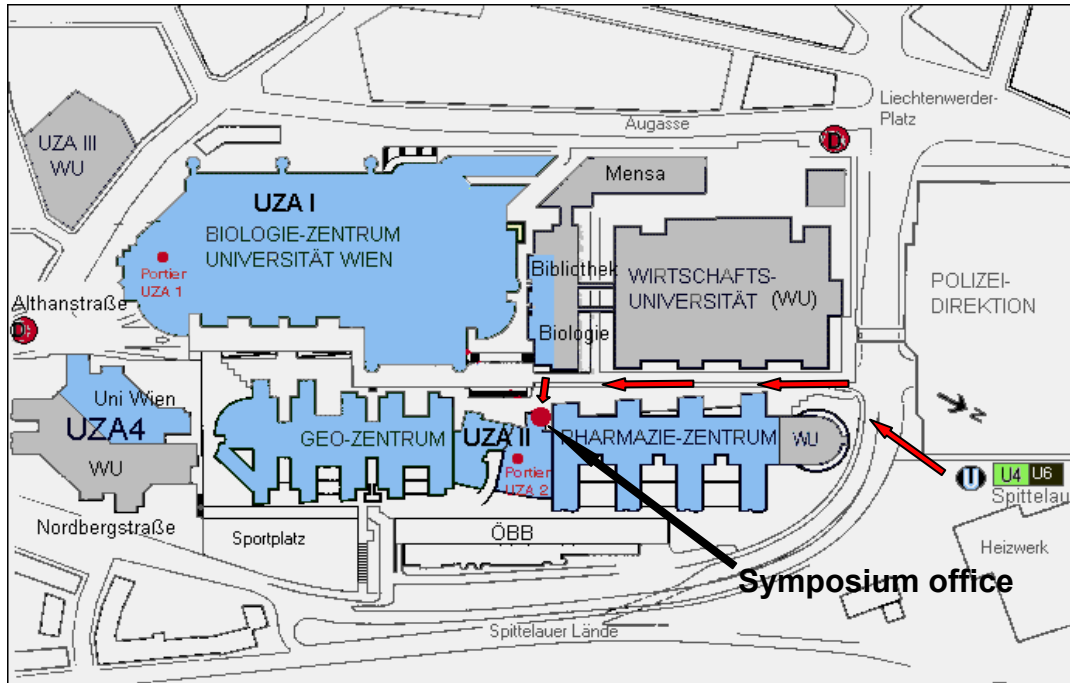
held under the aegis of

ALVA, APH, BNL-SHS, DGG, GSHS, IOH, INRA,
NJF, PSHS, SECH, SOI
and the
International Society for Horticultural Science

www.she2008.eu

VENUE

The symposium will be held at the
University of Vienna, Pharmaziezentrum (UZA II)
Althanstraße 14, 1090 Vienna, Austria



SYMPOSIUM OFFICE

LOCATION: UZA II (doorman), Althanstraße 14, 9th district

THE SYMPOSIUM OFFICE WILL BE OPEN ON

Sunday, February 17th, 2008 from 13.00 to 17.00
Monday, February 18th, 2008 from 07.30 to 19.45
Tuesday, February 19th, 2008 from 08.00 to 19.45
Wednesday, February 20th, 2008 from 07.30 to 14.00

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* = Author who is presenting the lecture or the poster

SYMPOSIUM SCHEDULE

Sunday, February 17th, 2008

- 13.00 – 17.00 On-site registration Pharmaziezentrum (UZA II), Althanstraße 14, 9th district
- 19.00 – 23.00 Get-together party at Wiener Rathaus (Vienna City Hall), Lichtenfelsgasse 2, 1st district

Monday, February 18th, 2008

- 09.00 – 10.30 **OPENING CEREMONY** **Audimax**

Josef PRÖLL
Federal Minister for Agriculture, Forestry, Environment and Water management

Georg WINCKLER
Rector of the University of Vienna

Paolo INGLESE
Chairman of the SHE2008 Board

Robert J. BOGERS
Board Member of the International Society for Horticultural Science

PLENARY SESSION

Horticulture in Europe: From History to Innovation

Sansavini Silviero

Department of Fruit and Woody Plant Sciences , University of Bologna, Italy

- 10.30 – 11.00 **Coffee break**

- 11.00 – 11.05 Introduction Theme 1: *Bodson Monique*, Gembloux Agricultural University, Belgium

- 11.05 – 11.35 **THEME 1** **Audimax**

HEALTH ASPECTS: FROM VEGETABLES TO HORTICULTURAL THERAPY AND FROM ORGANIC TO FUNCTIONAL FOOD

Fruits, vegetables, phytochemicals and human health: past and future

Amiot-Carlin Marie Josephe

INSERM-INRA-Universite de la Mediterranee, France

- 11.35 – 11.40 Introduction Theme 2: *Schenk Manfred*, Leibniz University of Hannover, Germany

- 11.40 – 12.10 **THEME 2** **Audimax**

BIOTECHNOLOGY: FROM SOCIAL ISSUES TO "-OMICS" IN EUROPEAN HORTICULTURE

A role for Metabolomics in marker assisted breeding for crop compositional traits

Fernie Alisdair R.

Max-Planck-Institute for Molecular Plant Physiology, Potsdam-Golm, Germany

- 12.10 – 13.30 **Lunch**
- 12.15 – 14.15 General meeting of the German Society for Horticultural Science **HS 7**
- 13.30 – 14.30 Poster session Themes 1, 2, 3 & General Themes in the foyers
- 14.30 – 17.40 **Session Theme 1** **HS 3**
Chair: *Amiot-Carlin Marie Josephe*, INSERM-INRA-Universite de la Mediterranee, France
- 14.30 – 14.50 **Why and how managing the phenol content in horticultural crops?**
Treutter Dieter
Technische Universität München, Fachgebiet Obstbau, Freising-Weihenstephan, Germany
- 14.50 – 15.10 **Induction of glucosinolate accumulation by targeted pre- and postharvest applications**
Schreiner M¹, S. Huyskens-Keil², I. Schonhof¹, C. Ulrichs², I. Mewis² & A. Krumbein¹*
¹Institute of Vegetable and Ornamental Crops Grossbeeren/Erfurt e.V., Grossbeeren, Germany, ²Humboldt University Berlin, Institute of Horticultural Science, Berlin, Germany
- 15.10 – 15.30 **Broccoli at different head development stages - a chance to increase phytochemicals for different customers**
Krumbein Angelika, Heidi Saeger-Fink & Ilona Schonhof*
Institute of Vegetable and Ornamental Crops Grossbeeren/Erfurt e.V., Grossbeeren, Germany
- 15.30 – 15.50 **Anthocyanins from *Prunus mahaleb* L. fruits**
Blando Federica¹, Carmine Negro², Antonio Miceli², Luigia Longo³, Giuseppe Vasapollo³ & Luigi de Bellis²*
¹Istituto di Scienze delle Produzioni Alimentari, CNR, Lecce, Italy, ²DiSTeBA, Università del Salento, Lecce, Italy, ³Dipartimento di Ingegneria dell'Innovazione, Università del Salento, Lecce, Italy
- 15.50 – 16.20 **Coffee break**
- 16.20 – 16.40 **Bioactive components in fruits of different apple varieties-effect of cultivar, ripeness and storage conditions**
Schmitz-Eiberger Michaela, Anne Matthes & Anna Wilmanns
INRES-Horticultural Sciences, Bonn University, Bonn, Germany
- 16.40 – 17.00 **Effect of variety, cultivation and storage conditions on the apple allergen Mal d 1**
Matthes A.¹, A.-R. Lorenz², S. Scheurer² & M. Schmitz-Eiberger¹*
¹Bonn University, Institute of Crop Science and Resource Conservation- Horticultural Sciences, Bonn, Germany, ²Paul-Ehrlich-Institute, Division of Allergology, Germany
- 17.00 – 17.20 **Ellagitannin content in raspberry and blackberry cultivars grown in Trentino (Italy)**
*Vrhovsek Urska *, Lara Giongo, Fulvio Mattivi & Roberto Viola*
IASMA Research Center – Agrifood Quality Department, San Michele all'Adige, Italy
- 17.20 – 17.40 **Developing Human Capital through Horticulture**
Doyle Owen, Anne O'Connor & Yvonne Kelleher*
School of Biology and Environmental Science, University College Dublin, Ireland
- 17.40 – 18.00 **Break**

- 14.30 – 17.40 **Session Theme 2**
Chair: *Fernie Alisdair*, Max-Planck-Institute of Molecular Plant Physiology, Germany
- 14.30 – 14.50 **Molecular biology for improving production and quality in horticulture**
*Franken Philipp**, *D. Andrade*, *K. Boldt*, *R. Grosch*, *B. Haupt*, *A. Kofoet*, *D. Schwarz*,
G. Kost & *A. Waschke*
Institute of Vegetable and Ornamental Crops, Großbeeren, Germany
- 14.50 – 15.10 **Gene expression analyses during ripening of apricot (*Prunus armeniaca*) fruit, using a peach microarray**
Manganaris G. A.¹, *F. Ziliotto¹*, *R. Banfi³*, *F. Geuna³*, *C. Bonghi¹*, *P. Tonutti²* & *A. Ramina¹*
¹Department of Environmental Agronomy and Crop Science, University of Padova, Legnaro (Padova), Italy, ²Sant'Anna School of Advanced Studies, Pisa, Italy, ³DI.PRO.VE -Sezione di Coltivazioni Arboree University of Milano, Milano, Italy
- 15.10 – 15.30 **X-omic approach of tomato fruit quality**
Faurobert Mireille¹, *Jamila Chaïb¹*, *Stéphane Muños¹*, *Isabelle Marty²* & *Mathilde Causse^{1*}*
¹INRA, UR1052, Unité de Génétique et Amélioration des Fruits et Légumes, Domaine St Maurice, Montfavet, France, ²INRA, UMR Sécurité et Qualité des Produits d'Origine Végétale, Domaine Saint Paul, Site Agroparc, Avignon, France
- 15.30 – 15.50 **Inhibition of prolyl 4 hydroxylases delays senescence in cut carnation flowers through the suppression of climacteric ethylene production**
Kalaitzis P.^{1}*, *J. Mullyharju²*, *F. Vlad¹*, *P. Tiainen²*, *T. Spano¹*, *F. Bou Daher¹*, *D. Vlad¹* & *C. A. Owen¹*
¹Department of Horticultural Genetics & Biotechnology, Mediterranean Agronomic Institute of Chania, Chania, Greece, ²Collagen Research Unit, Biocenter Oulu and Dept. of Medical Biochemistry and Molecular Biology, University of Oulu, Oulu, Finland
- 15.50 – 16.20 **Coffee break**
- 16.20 – 16.40 **Fruit trees transformation: methodology and application**
Dolgov Sergey V., *Vadim G. Lebedev* & *Roman V. Mikhailov*
Branch of Shemyakin institute of bioorganic chemistry RAS, Pushchino, Russia
- 16.40 – 17.00 **Genetic control of stature in ornamental plants**
Kourmpetli Sofia^{1}*, *Anjanabha Bhattacharya¹*, *Mike R. Davey¹*, *Brian J. Power¹*, *Peter Hedden²* & *Andy L. Phillips²*
¹Plant Sciences Division, School of Biosciences, University of Nottingham, UK,
²Rothamsted Research, Harpenden, UK
- 17.00 – 17.20 **Development of Tobacco Plants for the Affordable Production of a Cancer Vaccine**
Lössl Elke¹, *Nadja Thönes²*, *Elisabeth Geiger³* & *Andreas Lössl^{1,3}*
¹Grains-of-Faith Foundation, Merching, Germany, ²Deutsches Krebsforschungszentrum, F035, Heidelberg, Germany, ³Department of Applied Plant Sciences and Plant Biotechnology (DAPP) University of Natural Resources and Applied Life Sciences Vienna, Vienna, Austria
- 17.20 – 17.40 **Process Engineering as a Means of Regulating the Microclimate in a Photoautotrophic In Vitro Culture**
Fuljahn Stefanie & *Hans-Jürgen Tantau*
Biosystems and Horticultural Engineering Section, Institute of Biological Production Systems, Leibniz Universität Hannover, Germany
- 17.40 – 18.00 **Break**

18.00 – 19.30

Workshop: **Sustainability and new technology needs for coping with climate constraints**

HS 3

Convenor: *van Kooten Olaf*, Wageningen University, The Netherlands

Topics:

What are the economic consequences of the effects of climate change on Horticulture in Europe?

Bokelmann Wolfgang

Humboldt-Universität zu Berlin, Wirtschafts- und Sozialwissenschaften des Landbaus- Berlin, Germany

How can we monitor the effect of climate change in horticulture?

Orlandi Fabio

Department of Plant Biology, Agroenvironmental and Animal Biotechnology, Perugia University, Italy

Can closed greenhouses promote sustainability in protected cultivation?

De Pascale Stefania

Horticulture, Floriculture & landscaping, Department of Agricultural Engineering and Agronomy, University of Naples Federico II, Portici (Naples), Italy

How do we solve the salinity problem?

Edelstein Menahem

Newe Ya'ar Research Center, Ramat Yishai, Israel

How do we reduce the water problem?

Blanusa Tijana

The Royal Horticultural Society, Garden Wisley/School of Biological Sciences, University of Reading, UK

18.00 – 19.30

Workshop: **Plant Health and Quarantine Pests in European Horticulture**

HS 5

Convenor: *Blümel Sylvia*, Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria

Topics:

The importance of certification schemes and quarantine measures for Plant Health in European Horticulture

Roy Anne Sophie

EPPO Headquarters, Paris, France

Risks and opportunities for biocontrol agents for the control of Plant (Health and Quarantine) Pests in European Horticulture

Albajes Ramon

UdL-IRTA, Lleida, Spain

The contribution of the EUPHRESKO ERA-NET to the topic "Plant Health and Quarantine Pests in European Horticulture"

Blümel Sylvia

Austrian Agency for Health and Food Safety, Institute of Plant Health, Vienna, Austria

Convenor: *Mezzetti Bruno*, Università Politecnica delle Marche, Italy & *Rolf Nestby*, Bioforsk, Trondheim, Norway

From genome to berry fruit

Denoyes-Rothan B.^{1}, D. Simpson², M. Coman³, A. Sasnauskas⁴ & B. Mezzetti⁵*

¹UREFV-INRA BP 81 Villenave D'Ornon, France, ²East Malling Research, United Kingdom, ³Fruit Research Institute Pitesti, Arges, Romania, ⁴Lithuanian Institute of Horticulture, Kaunas district, Lithuania, ⁵Università Politecnica delle Marche, Ancona, Italy

Quality assurance of planting material

van Duijn Bert^{1}, Paivi Parika² & Gina Ruzic³*

¹Fytagoras BV, Leiden, The Netherlands, ²MTT Agrifood Res. Finland, Plant Protection, Jokioinen, Finland, ³ARI SERBIA, Fruit and Grape Research Centre, Čačak, Serbia

Sustainable berry production

Bodson Monique^{1}, Pedro Bras de Oliveira², Gijs van Kruistum³ & Eamonn Kehoe⁴*

¹Gembloux Agricultural University, Laboratory of applied plant physiology and horticulture, Belgium, ²Estação Agronomica Nacional, Dpt Produção Agricola, Oeiras, Portugal, ³Wageningen University and Research, Applied Plant Research, Location Lelystad, The Netherlands, ⁴Teagasc Soft Fruit, Enniscorthy, Ireland

Bioactive compounds of berry fruits affecting human health

Laimer M.^{1}, G. Marzban, A. Herndl, J. Beekwilder, G. Mc Dougall, D. Stewart, J. L. Quiles, E. Krüger, C. Atkinson, R. Nestby, T. B. Toldam-Andersen, E. Harsan, M. Heinonen, M. Olsson, Z. Juranic, M. Battino & B. Mezzetti*

Plant Biotechnology Unit, IAM, Dept. Biotechnology, BOKU, Wien, Austria, Plant Research International, Wageningen, The Netherlands, Scottish Crop Research Institute, Invergowrie Dundee, UK, Institute of Nutrition and Food Technology, Department of Physiology, Granada, Spain, Research Centre Geisenheim, Department of Pomology, Germany, East Malling Research, East Malling, Kent, UK, Norwegian Crop Research Institute (Planteforsk), Kvithamar Research Centre, Stjoerdal, Norway, The Royal Veterinary and Agricultural University, Dept. Agricultural Sciences, Crop Science, Taastrup, Denmark, Fruit Research Station Cluj, Cluj Napoca, Romania, Department of Applied Chemistry and Microbiology, University of Helsinki, Finland, Dept. of Crop Science, Swedish University of Agricultural Sciences, Alnarp, Sweden, Institute for Oncology and Radiology of Serbia, Belgrade, Serbia and Montenegro, Inst. Biochemistry and Dept. of Environmental and Crop Science Medical School, Università Politecnica delle Marche, Ancona, Italy

Convenor: *Randrup Thomas*, Center for Skov, Landskab og Planlægning, KVL, Denmark

Topics

Urban Landscapes; the concept of Strategic Panning, Design and Management

Schipperijn Jasper & Thomas B. Randrup¹

¹ University of Copenhagen, Faculty of Life Sciences, Centre for Forest, Landscape and Planning, Dept. of Parks and Urban Landscapes

Planning systems and policy procedures in relation to urban landscapes – the German example

Oppermann Bettina

Institute of Landscape Planning and Design, Faculty of Architecture and Landscape Sciences, Leibniz University Hanover, Germany

Public organisational aspects in relation to use and user preferences of urban landscapes

Persson Bengt

Swedish University of Agricultural Sciences, SLU, Faculty of Landscape Planning, Horticulture and Agricultural Science, Department of Landscape management, Design and Construction, Alnarp, Sweden

Urban landscapes as an approach to create new cultural, social and ecological values

Ferrini Francesco¹ & Fabio Salbitano²

¹University of Florence, Department of Horticulture, ²University of Florence - Department of Science and Technologies of the Forest Environment (DISTAF), Italy

Urban landscapes and its associated values – the case of human health

Hansen Berit Ipsen, Jasper Schipperijn, Ulrika Stigsdotter & Thomas B. Randrup

Tuesday, February 19th, 2008

- 08.30 – 08.35 Introduction Theme 3: *Larsen Rolf*, Department of Horticulture, Alnarp, Sweden
- 08.35 – 09.05 **THEME 3** **Audimax**
ENVIRONMENTAL CONSTRAINTS AND CLIMATE CHANGE IN EUROPE
The causes and the extent of climate change - past and present
Kromp-Kolb Helga
University of Natural Resources and Applied Life Sciences, Institute of Meteorology, Department of Water, Atmosphere and Environment, Vienna, Austria
- 09.05 – 09.10 Introduction Theme 4: *Habib Robert*, CIRAD, France
- 09.10 – 09.40 **THEME 4** **Audimax**
SUSTAINABILITY OF HORTICULTURE IN EUROPE (ENVIRONMENTAL, SOCIAL, ECONOMIC)
Sustainability issues of the pre- as well as the post-harvest food chain of selected horticultural crops
Bertschinger Lukas
Agroscope Changins-Wädenswil Research Station ACW, Switzerland
- 09.40 – 10.10 **Coffee break**
- 10.10 – 11.30 **Session Theme 3** **HS 3**
Chair: *Kromp-Kolb Helga*, University of Natural Resources and Applied Life Sciences, Vienna, Austria
- 10.10 – 10.30 **Modelling apple flowering time as a tool for exploring the effects of global warming on the completion of chilling and heat requirements in French and Belgian cropping areas**
Legave J. M.^{1}, I. Farrera², M. Calleja² & R. Oger³*
¹INRA Montpellier, France, ²SupAgro Montpellier, France, ³CRA-W Gembloux, Belgium
- 10.30 – 10.50 **Olive flowering monitored in a large area of Italy and local climatic trends**
Orlandi Fabio, Tommaso Bonofiglio, Carlo Sgromo, Luigia Ruga, Bruno Romano & Marco Fornaciari*
Department of Plant Biology, Agroenvironmental and Animal Biotechnology. Perugia University, Perugia, Italy

- 10.50 – 11.10 **Cherry leaf roll virus - an emerging disease in Finland?**
Grubits Elise^{1}, Susanne von Barga¹, Risto Jalkanen² & Carmen Büttner¹*
¹Humboldt-Universität zu Berlin, Institute for Horticultural Sciences, Department of Phytomedicine, Berlin, Germany, ²Metla, Finnish Forest Research Institute, Rovaniemi, Finland
- 11.10 – 11.30 **Fluxes of carbon in italian orchards**
Tagliavini M¹, P. Panzacchi², C. Ceccon², G. Liguori³, C. Bertolla⁴, F. Meggio⁵, G. Tonon², L. Corelli Grappadelli², G. Celano⁶, R. Gucci⁴, A. Pitacco⁵ & P. Inglese^{3}*
¹Faculty of Science and Technology, Free University of Bozen-Bolzano, Italy, ²Department of Fruit Trees and Woody Plant Sciences, University of Bologna, Italy, ³Dipartimento di Colture Arboree, University of Palermo, Italy, ⁴Department of Fruit Science and Plant Protection, University of Pisa, Italy, ⁵Department of Environmental Agronomy and Crop Science, University of Padova, Italy, ⁶Department of Crop Sciences Forestry and Environment, University of Basilicata, Italy.
- 10.10 – 11.30 **Session Theme 4** **HS 8**
 Chair: *Bertschinger Lukas*, Agroscope Changins-Wädenswil Research Station ACW, Switzerland
- 10.10 – 10.30 **Eco-social Certification in International Floriculture. A War of Labels?**
Balas Johannes, Sophie Vessel & Margot Fassler*
 University of Natural Resources and Applied Life Sciences, Vienna, Austria
- 10.30 – 10.50 **Economic efficiency of the use of plant protection products in Flemish horticulture**
*Van Lierde D.*¹, A. Vandenberghe¹, A. M. Cools¹, E. De Backer² & S. Vergucht²*
¹Institute for Agricultural and Fisheries Research, Unit Social Sciences, Ghent, Belgium, ²Laboratory of Crop Protection Chemistry, Faculty of Bioscience Engineering, Ghent, Belgium
- 10.50 – 11.10 **Re-discovering horticulture: An exploration from plant production to Social Capital**
Doyle Owen & Yvonne Kelleher*
 School of Biology and Environmental Science, Dublin, Ireland
- 11.10 – 11.30 **The family-firm life cycle and its impact on sustainable development in glasshouse horticulture**
Taragola Nicole, Dirk Van Lierde¹ & Guido Van Huylenbroeck²*
¹Institute for Agricultural and Fisheries Research, Unit Social Sciences, Merelbeke, Belgium, ²Ghent University, Department of Agricultural Economics, Ghent, Belgium
- 11.30 – 12.30 Poster session Themes 4, 5 & 6 in the foyers
- 12.30 – 14.00 **Lunch**
- 14.00 – 15.20 **Session Theme 3** **HS 3**
 Chair: *Kromp-Kolb Helga*, University of Natural Resources and Applied Life Sciences, Vienna. Austria
- 14.00 – 14.20 **Ozone impacts on lettuce growth and photosynthesis**
Goumenaki Eleni^{1,2} & Jeremy Barnes¹*
¹Environmental and Molecular Plant Physiology, Institute for Research on Environment and Sustainability, School of Biology, Newcastle University, Newcastle Upon Tyne, UK, ²School of Agricultural Technology, Technological Education Institute of Crete, Heraklion Greece

- 14.20 – 14.40 **Dynamics of UV-B radiation mediated changes in secondary plant metabolism of vegetables**
Huyskens-Keil S.^{1}, M. Schreiner², A. Krumbein², I. Mewis³ & Ch. Ulrichs³*
^{1&3}Humboldt University Berlin, Institute for Horticultural Sciences, ¹Section Quality Dynamics/Postharvest Physiology and ³Section Urban Horticulture, Berlin, Germany, ²Institute of Vegetable and Ornamental Crops Grossbeeren/Erfurt e.V., Grossbeeren, Germany
- 14.40 – 15.00 **Hailnet composition and structure affects light transmission, light spectrum, photosynthesis, vegetative growth and colouration plus non-destructive measurements**
Blanke Michael M.
 INRES - University of Bonn, Germany
- 15.00 – 15.20 **Grafting enhances salt tolerance of melon plants**
Edelstein Menahem^{1} & Meni Ben-Hur²*
¹A.R.O. Neve Ya'ar Research Center, Ramat Yishay, Israel, ²A.R.O. Volcani Center, Bet Dagan, Israel
- 14.00 – 15.20 **Session Theme 4** **HS 8**
 Chair: *Bertschinger Lukas*, Agroscope Changins-Wädenswil Research Station ACW, Switzerland
- 14.00 – 14.20 **Conversion to organic horticulture: a multidimensional issue and an example for transitions towards sustainability**
Bellon S., F. Bressoud, J. Fauriel, M. Jonis, C. Lamine & M. Navarrete
 Inra, Ecodéveloppement Unit, Domaine Siant Paul, Site Agroparc, France
- 14.20 – 14.40 **Husbandry - the ultimate means of control for soil borne pathogens**
Dixon Geoffrey R
 Centre for Horticulture & Landscape, School of Biological Sciences, University of Reading, United Kingdom
- 14.40 – 15.00 **Does knowledge on fruit tree architecture and its implications for orchard management improve horticultural sustainability? An overview of recent advances in the apple.**
Lauri P. É.¹, E. Costes¹, J. L. Regnard¹, L. Brun², S. Simon², P. Monney³ & H. Sinoquet⁴
¹Institut National de la Recherche Agronomique (INRA), UMR DAP, équipe AFEF, Montpellier, France, ²INRA, UERI, Domaine de Gotheron, St-Marcel-lès-Valence, France, ³AGROSCOPE RAC, Changins, Nyon, Suisse, ⁴INRA, UMR PIAF, Clermont-Ferrand, France
- 15.00 – 15.20 **How to manage nitrogen fertilization of the spinach-bean succession at the crop rotation scale - Case Study in the loam soils in Belgium**
Renard Sophie, Jean-Pierre Goffart & Marc Frankinet*
 Département Production Végétale, Centre Wallon de Recherches Agronomiques, Gembloux, Belgium
- 15.20 – 15.50 **Coffee break**
- 15.50 – 17.20 **Workshop: Horticulture learning and training** **HS 3**
 Convenor: *Mauget Jean-Claude*, Institut National d'Horticulture, Angers, France

Topics

How to make horticultural education more attractive for students?

Bogers Robert J.

Board Member of the ISHS, Bennekom, The Netherlands

What the industry wants and needs in terms of skilled graduates in Horticulture

Faber Doeke C.

Association of Dutch flower auctions, Leiden, The Netherlands

How horticultural education and training can profit from closer relationships with industry

Geoffriau Emmanuel

Horticulture Department, Institut National d'Horticulture, Angers, France

Interest and necessity of networking horticultural education at master level

Larsen Rolf

Department of Horticulture, Alnarp, Sweden

How horticultural education and training can use the possibilities offered by web technologies

Nicola Silvana

Università di Torino, AGROSELVITER - Facoltà di Agraria, Grugliasco, Italy

15.50 – 17.20

Workshop: **Water shortage and efficient water use**

Convenor: *Fernández Enrique*, Spanish Research Council (CSIC), Spain

HS 8

Topics:

Crop water relations

Xiloyannis Cristos

Dip. Produzione Vegetale, Potenza, Italy

Models as effective tools for optimizing irrigation

Lemur Raoul

Department of Applied Ecology and Environmental Biology, Ghent University, Belgium

Irrigation with low quality water

Chartzoulakis Kostas

NAGREF. Institute for Olive Tree and Subtropical Plants, Crete, Greece

New approaches for scheduling sustainable irrigation

Marsal Jordi

Tecnologia del Reg, IRTA, Lleida, Spain

Latest advances on precise irrigation.

Grant Olga

East Malling Research, UK

17.30 – 19.00

Workshop: **Links between horticultural industry and horticultural science**

Convenor: *Dixon Geoff*, Centre for Horticulture and Landscape, Whiteknights, The University of Reading, UK

HS 3

Topics

What's new in science and applicable to horticultural research?

Zude Manuela

Leibnitz - Institut für Agarartechnik - Potsdam - Bornim e V, Germany

How is horticultural science developed into technology?

Van Kooten Olaf

Department of Horticulture Production Chains, Wageningen University, Wageningen, The Netherlands

What are the effective methods that move technology into industry?

Emmett Martin

Centre for Horticulture and Landscape, The University of Reading, Berkshire, UK

Where does the money come from?

Palara Ugo

CRPV Emilia Romagna, Italy

What is the role of the retail consumer?

Doyle Owen

School of Biology and Environmental Science, University College Dublin, Belfield, Dublin, Ireland

17.30 – 19.00

Workshop: **Horticulture for Development**

HS 8

Convenor: *Kahane Rémi, Global Horticulture Initiative, Arusha, Tanzania*

Topics:

Horticulture for Development, raising awareness and capacities to anticipate a gap between needs and resources.

Debois Marc

DG-Dev, European Commission

The relationship between horticulture and human health in developing countries: food safety and diversity.

Giyose Boitshepo¹ & Alison Hodder²

¹NEPAD, Midrand, Johannesburg, South-Africa, ²Horticultural Crops Group, FAO, Italy

Lessons learned from the past: Lack of capacities in Western Africa.

Muluh George

CORAF-WECARD, Dakar, Senegal

Case study of Kenya: Horticulture as development tool.

Wasilwa Lusike

KARI, Nairobi, Kenya

A new research based initiative for promotion and facilitation: GlobalHort.

Owusu-Bennoah¹ & R. Kahane²

¹NARO, Kamapala, Uganda, ²Global Horticulture Initiative, World Vegetable Center at the Regional Center for Africa, Arusha, Tanzania

19.15

Cocktail party: invitation from the Federal Ministry of Agriculture, Forestry, Environment and Water Management

Wednesday, February 20th, 2008

- 08.30 – 08.35 Introduction Theme 5: *Bogers Robert J.*, Board Member of ISHS, The Netherlands
- 08.35 – 09.05 **THEME 5** **Audimax**
QUALITY MANAGEMENT FROM MONITORING IN PRODUCTION TO MANAGEMENT IN SHOPS
High-throughput techniques for measuring taste and aroma of horticultural produce
Nicolai Bart
Katholieke Universiteit Leuven, Belgium
- 09.05 – 09.10 Introduction Theme 6: *Bedlan Gerhard*, Austrian Agency for Health and Food Safety, Institute of Plant Health, Vienna, Austria
- 09.10 – 09.40 **THEME 6** **Audimax**
BIODIVERSITY AND LOCAL GENETIC RESOURCES: FROM KNOWLEDGE TO EXPLOITATION
Biodiversity and local genetic resources
Fideghelli Carlo & A. Petra Engel*
Centro di Ricerca per la Frutticoltura (CRA), Rome, Italy
- 09.40 – 10.10 **Coffee break**
- 10.10 – 11.30 **Session Theme 5** **HS 3**
Chair. *Nicolai Bart*, Katholieke Universiteit Leuven, Belgium
- 10.10 – 10.30 **Predicting the weekly yield fluctuations of greenhouse bell pepper**
Sauviller C.^{1}, B. E. Verlinden², W. Baets¹ & B. M. Nicolai²*
¹Proefcentrum Hoogstraten v.z.w., Hoogstraten-Meerle, Belgium, ²Flanders Centre of Postharvest Technology, Catholic University Leuven, Leuven, Belgium
- 10.30 – 10.50 **Monitoring and modelling the postharvest behaviour of horticultural produce**
Gerbert I., M. Linke, M. Geyer & M. Zude*
Leibniz-Institute for Agricultural Engineering Potsdam-Bornim (ATB), Potsdam, Germany
- 10.50 – 11.10 **Towards the use of modelling in genetic improvement: example of peach fruit quality**
Quilot-Turion Bénédicte¹ & Michel Génard²
¹UR1052 and ²UR1115, INRA, Avignon, France
- 11.10 – 11.30 **Polyphenol analysis in horticultural products based on laser-induced fluorescence spectroscopy**
Wulf J. S.^{1}, S. Rühmann², D. Treutter² & M. Zude¹*
¹Leibniz Institute for Agricultural Engineering Potsdam-Bornim, Germany, ²Technical University of Munich, Center of Life and Food Sciences Weihensthan, Unit of Fruit Sciences, Freising, Germany
- 11.30 – 12.00 **Coffee break**
- 12.00 – 12.20 **Approach for Nondestructive Analysis of Carotenoids Contents in Horticultural Products using Scattering and Absorbance Information**
Zude M.¹, & A. Torricelli²
¹Leibniz-Institute for Agricultural Engineering Potsdam-Bornim (ATB), Potsdam, Germany, ²Dipartimento di Fisica, Politecnico di Milano, Milan, Italy

- 12.20 – 12.40 **Monitoring of post-harvest Orange Fruit disease by Fluorescence and Reflectance Hyperspectral Imaging**
Sighicelli M.^{1}, F. Colao¹ & S. Patsaeva² & Lai A.¹*
¹ENEA Research Center Frascati - Laser Application Section, Rome, Italy, ²Physics Department of Moscow State University, Russia
- 12.40 – 13.00 **Non-destructive evaluation of high-pressure processing effects on fresh produce**
 Schlüter Oliver¹, Julia Förster¹, Werner Herppich^{1*}, Martin Geyer¹ & Dietrich Knorr²
¹Leibniz-Institute for Agricultural Engineering Potsdam, Dept. Of Horticultural Engineering, Potsdam, Germany, ²Berlin University of Technology, Dept. of Food Biotechnology and Food Process Engineering, Berlin, Germany
- 13.00 – 13.20 **Young families as buyers of horticultural products**
*Schöps J.**, A. Gabriel & K. Menrad
 University of Applied Sciences Weihenstephan, Freising, Germany
- 10.10 – 11.30 **Session Theme 6** **HS 8**
 Chair: *Fideghelli Carlo*, CRA Istituto Sperimentale di Frutticoltura, Italy
- 10.10 – 10.30 **Exploring the genetic determinisms of architectural and functional traits in an apple progeny**
Segua V., J. L. Regnard, C.-E. Durel & E. Costes
 INRA, UMR DAP, équipe AFEF, Montpellier, France
- 10.30 – 10.50 **Plant biodiversity recovery, conservation and valorisation: a case study from the Val di Vara (La Spezia - Liguria)**
*Sebastiani L.**, F. Camangi & A. Stefani
 Scuola Superiore Sant'Anna, Pisa, Italy
- 10.50 – 11.10 **Strategies for breeding for Plum pox virus resistance in European Plum (*Prunus domestica* L.)**
Neumüller Michael¹, Walter Hartmann² & Dieter Treutter¹
¹Technical University of Munich (TUM), Center of Life and Food Sciences Weihenstephan, Unit of Fruit Sciences, Freising, Germany, ²University of Hohenheim, Institute of Special Crop Cultivation and Crop Physiology (370), Unit of Fruit Science, Stuttgart, Germany
- 11.10 – 11.30 **Agro-horticultural biodiversity in mountain oases of northern Oman**
*Gebauer J.**, E. Luedeling, K. Hammer, M. Nagieb & A. Buerkert
 Institute of Crop Science, University of Kassel, Witzenhausen, Germany
- 11.30 – 12.00 **Coffee break**
- 12.00 – 12.20 **Integrating ex situ and in situ and on-farm conservation approaches in the management of local vegetable diversity in Austria**
Arndorfer Michaela & Bernd Kajtna
 Arche Noah, Schiltern, Austria
- 12.20 – 12.40 **Striking a new path for conservation of crop genetic resources: First results of a pilot project to re-introduce old *Lactuca* varieties into the market**
Lehmann, C.^{1} G. Lissek-Wolf¹, R. Vögel² & S. Huyskens-Keil¹*
¹Humboldt University Berlin, Institute for Horticultural Sciences, Berlin, Germany, ²Landesumweltamt Brandenburg, Eberswalde, Germany
- 12.40 – 13.00 **Molecular markers as an assisting tool for characterisation of local apple varieties**
Baric Sanja & Josef Dalla Via*
 Research Centre for Agriculture and Forestry Laimburg, Auer/Ora (BZ), Italy

13.00 – 13.20 **Characterization of a genepool of old broad leaf *Rhododendron* hybrids by means of STMS markers**
*Caser Matteo & Valentina Scariot**
Department of Agronomy, Forest and Land Management - University of Turin, Grugliasco, Italy

13.20 **Farewell**

POSTER SESSIONS

Monday, February 18th, 2008

13.30 – 14.30 Poster session Themes 1, 2, 3 & General Themes in the foyers

Posters Theme 1

- P T1-01 **Small urban gardens for the elderly in Italy**
Tei F., P. Benincasa, M. Farneselli & M. Caprai
University of Perugia, Italy
- P T1-02 **Torbangun (*Coleus amboinicus* Lour), a traditional lactagogue among Bataknese lactating women in Indonesia**
*Damanik Rizal**
Department of Community Nutrition, Faculty of Human Ecology, IPB University, Bogor-Indonesia
*Visiting Lecturer at Department of Nutrition Sciences, Kulliyah of Allied Health Sciences, International Islamic University Malaysia (IIUM), Kuantan Campus, Pahang-Malaysia
- P T1-03 **Phenolics and anthocyanins in strawberry**
Rühmann Susanne & Dieter Treutter
Institute of Fruit Science, TU München, Center of Life Sciences, Freising-Weihenstephan, Germany
- P T1-04 **Seasonality of salicin and phenolic glycoside contents in the bark of three *Salix* species**
Nadja Förster^{1a}, Christian Ulrichs^{1a}, Matthias Zander^{1b}, Ralf Kätzel² & Inga Mewis^{1a}
¹Humboldt University Berlin, Institute of Horticultural Science, ^{1a} Urban Horticulture, ^{1b} Tree Production and Nursery, Germany, ²Landesforstanstalt Eberswalde, Fachbereich Waldentwicklung/Monitoring, Germany
- P T1-05 **Antimicrobial and antifungal activity of different extracts from *Melia azedarach* L. on phytopathogenic bacteria and fungi of agro-food interest**
Francesca Gaggia^{1}, Angela Capece² & Grazia Marino³*
¹Department of Agro-environmental Sciences and Technologies, Bologna, Italy, ²Department of Biology, Potenza, Italy, ³Department of Fruit Tree and Woody Plants Sciences, Bologna, Italy
- P T1-06 **Development of a new horticultural therapy evaluation method through color reflection**
Tomoya Kamiyama & Haruhisa Inden*
Faculty of Agriculture, University of Miyazaki, Japan
- P T1-07 **Storage temperature effects on the antioxidant profile in tomato fruit**
Tillinger, N.^{1,2}, S. Kiefer^{1,2}, S., W. Palme³, G. Soja¹, & M. Popp²*
¹Austrian Research Centers GmbH- ARC, Division of Biogenetics, Department of Environmental Research, Seibersdorf, Austria, ²University of Vienna, Institute of Ecology and Conservation Biology, Vienna, Austria, ³Horticultural College and Research Institutes, Vienna, Austria
- P T1-08 **The Effect of Two Different Growing systems (Integrated Pest Management and Organic Cropping System) on Strawberry Fruit Health Components and Quality**
Magnani S.^{1}, G. Baruzzi¹, M. Bonoli¹, L. F. D'Antuono², S. Elementi², M. L. Maltoni¹, M. Ranieri¹ & W. Faedi¹*
¹CRA - Unità di ricerca per la Frutticoltura, Forlì, Italy, ²Dipartimento di Scienze e Tecnologie Agroambientali, Università di Bologna, Italy

- P T1-09 **Phenolic and antioxidant activity of wild and cultivated Chicory cultivar growing in South Salento (Apulia, Italy)**
Negro C., R. Accogli, L. Tommasi, L. De Bellis & A. Miceli
 Dipart. di Scienze e Tecnologie Biologiche ed Ambientali, Università del Salento, Lecce, Italy
- P T1-10 **Fire blight resistance in apple: Influence of polyphenols and salicylic acid**
Milcevicova R.¹, T. Fischer², V. Hanke³, H. Halbwirth⁴, K. Stich⁴, W. Rozhon⁵, I. Matusiková⁶ & E. Wilhelm¹
¹Austrian Research Centers GmbH, Seibersdorf, Austria, ²TU München, FG Obstbau, Freising-Weihenstephan, Germany, ³BAZ, Inst. für Obstzüchtung, Dresden-Pillnitz, Deutschland, ⁴TU Wien, Fakultät für Techn.Chemie, Wien, Austria, ⁵Max F. Perutz Laboratories, Univ. of Vienna, Austria, ⁶Institute of Plant Genetics and Biotechnology, SAS, Nitra, Slovakia
- P T1-11 **Variation of tocopherols content in Italian olive drupes during ripening stage**
Muzzalupo I.¹, A. Chiappetta², L. Bruno², L. Lombardo¹, F. Steffanizzi^{1}, M. B. Bitonti² & E. Perri¹*
¹C.R.A. – Centro di Ricerca per l'Olivicoltura e l'Industria Oleria, Rende, Italy, ²University of Calabria, Dep. of Ecology, Italy
- P T1-12 **Omega-3/omega-6 fatty acids ratio in olive oils from Italian olive varieties**
Caravita Maria Anna, Ida Curcio, M. Alessandrino, C. Benincasa, F. De Rose, G. Godino, Alfredo Madeo, Innocenzo Muzzalupo, Massimiliano Pellegrino, Enzo Perri & Elvira Romano*
 CRA Istituto Sperimentale per l'Olivicoltura, Italy
- P T1-13 **Organoleptic and nutritional attributes of the major apple cultivars grown in Romania**
Petre Gh.², N. Braniște¹, Mădălina Militaru¹ & Silvia Petrescu¹
¹R.I.F.G. Pitești - Mărăcineni, Argeș, Romania, ²R.S.F.G. Voinești, Dâmbovița, Romania
- P T1-14 **The effect of D.M.R. technology to the quality of Cabernet sauvignon**
Podmaniczky, P., Laszlo Kocsis, Zoltan Varga, Erik Tarczal & Peter Taksonyi
 University of Pannonia, Georgikon Faculty of Agriculture, Department of Horticulture, Hungary
- P T1-15 **Environmental friendly fertilising products in organic tomato growing**
*Radics L., A. Divéky-Ertsey, & L. Csambalik**
 Corvinus Univ. of Budapest, Dept. of Ecol. & Sustainable Farming Systems, Budapest, Hungary
- P T1-16 **Protection of table grapes and possible residues levels - A Research Project from Austria**
Schildberger Barbara & Ferdinand Regner*
 Federal College and Institute for Viticulture and Pomology, Klosterneuburg, Austria
- P T1-17 **Phenolic compounds and antioxidant activity in fruits of peach and nectarine**
Simeone Anna Maria, Maria Grazia Piazza & Carlo Fideghelli*
 CRA-Centro di Ricerca per la Frutticoltura, Roma, Italy
- P T1-18 **Testing of different seed treatment materials on seed borne bacterial disease of tomato and pepper**
Tóbiás A.¹, J. Lehoczki-Tornai J.² & Z. Szalai¹
¹Corvinus University of Budapest Faculty of Horticultural Science, Department of Ecological and Sustainable Agricultural Systems, Hungary, ²Corvinus University of Budapest Faculty of Food Sciences National Collection of Agricultural and Industrial Microorganisms, Hungary
- P T1-19 **Climate influences on fruit development and health beneficial components in strawberries**
Toldam-Andersen T. B.¹, E. Krüger², H. Dietrich³, B. Mezzetti⁴, C. Carlen⁵, B. Duralija⁶ & R. Nestby⁷
¹Copenhagen Univ., Dept. of Agricultural Sciences, Denmark. ²Research Centre Geisenheim, Dept. of Pomology, Germany. ³Research Centre Geisenheim, Dept. of Wine Analysis and beverage Technology, Germany, ⁴Marche Polytechnic University Ancona, SAPROV, Italy, ⁵Research Centre Agroscope Changins-Wädenswill, Switzerland, ⁶University of Zagreb, Department of Pomology, Croatia, ⁷Bioforsk, Trondheim, Norway

- P T1-20 **Nutritional Value of “Ready to Eat” Endive During Storage as Influenced by Conventional, Integrate and Organic Farming**
*Vallone S.**, *F. Orsini* & *G. Barbieri*
 DIAAT, University of Naples Federico II, Portici, Italy
- P T1-21 **Ascorbic acid content in early potato tubers in field cultivation with covers applied**
*Wadas Wanda**, *Romualda Jabłońska-Ceglarek* & *Edyta Kosterna*
 University of Podlasie, Department of Vegetable Crops, Poland
- P T1-22 **Secondary plant ingredients of *Parthenium hysterophorus* L. and their possible impact on human health in Ethiopia**
Wiesner Melanie^{1a}*, *Taye Tessema²*, *Andreas Hoffmann³*, *Carmen Büttner^{1b}*, *Inga Mewis^{1a}* & *Christian Ulrichs^{1a}*
¹Humboldt University Berlin, Institute of Horticultural Science, ^{1a}Urban Horticulture, ^{1b}Phytomedicine, Germany, ²Plant Protection Research Center, Ambo, Ethiopia, ³Paul-Ehrlich-Institute, Federal Agency of Sera and Vaccines, Langen, Germany
- P T1-23 **Study concerning the content in trans- resveratrol at the grape and wine variety**
Căpruciu Ramona^{1}*, *I. Olteanu¹*, *Daniela Doloris Cichi¹*, *P. Mitru²*, *Dorin C. Costea¹*, *M. Cichi³* & *Florin D. Capruciu⁴*
¹University of Craiova, Faculty of Horticulture, Craiova, Romania, ²University of Medicine and Pharmacy, Craiova, Romania, ³University of Craiova, Faculty of Agriculture, Craiova, Romania, ⁴S. C. Domeniul Coreanei Segarcea S. A., Segarcea, Romania
- P T1-24 **Yielding and biological value of some cultivars of *Cucurbita pepo* L.**
Biesiada Anita^{1}*, *A. Nawirska²*, *A. Sokół-Łętowska²* & *A. Kucharska²*
¹Department of Horticulture, ²Department of Fruit, Vegetable and Grain Technology, Wrocław University of Environmental and Life Sciences, Wrocław, Poland
- P T1-25 **Occurrence and potential role of Phosphoenolpyruvate carboxykinase in the metabolism of organic acids in the flesh of gooseberries (*Ribes grossularia* L.)**
Famiani Franco^{1}*, *Alessandro Baldicchi¹*, *Primo Proietti¹*, *Alberto Battistelli²*, *Stefano Moscatello²* & *Robert P. Walker¹*
¹Dipartimento di Scienze Agrarie e Ambientali, Università degli Studi di Perugia, Perugia, Italy, ²Istituto di Biologia Agroambientale e Forestale – Consiglio Nazionale delle Ricerche, Porano (TR), Italy
- P T1-26 **Control of the metabolism of the oxalic acid and its interactions with calcium (Ca) in fruits of *Actinidia deliciosa* ‘Hayward’**
Moscatello Stefano¹, *Simona Proietti¹*, *Franco Famiani²*, *Mirco Boco²* & *Alberto Battistelli^{1*}*
¹Istituto di Biologia Agroambientale e Forestale - Consiglio Nazionale delle Ricerche, Porano (TR), Italy, ²Dipartimento di Scienze Agrarie e Ambientali, Università degli Studi di Perugia, Perugia, Italy
- P T1-27 **Comparison of antioxidant parameters in fruits of a range of apricot (*Prunus armeniaca* L.) cultivars**
Tordai E.¹, *R. Engel²*, *R. Hermán¹*, *A. Pedryc¹*, *A. Blázovics³*, *É. Stefanovits-Bányai²* & *A. Hegedűs^{2*}*
¹Corvinus University of Budapest, Department of Genetics and Plant Breeding, Budapest, Hungary, ²Corvinus University of Budapest, Department of Applied Chemistry, Budapest, Hungary, ³Semmelweis University, II. Department of Medicine, Budapest, Hungary
- P T1-28 **Comparative antioxidant characterization of stone fruits grown in Hungary**
*Stefanovits-Bányai É.**, *N. Papp*, *B. Szilvássy*, *Z. Szabó*, *J. Nyéki* & *A. Hegedűs²*
 Corvinus University of Budapest, Department of Applied Chemistry, Budapest, Hungary

Posters Theme 2

- P T2-01 **Effects of boron and salinity on red raspberry in vitro**
Neocleous Damianos & Miltiadis Vasilakakis
Agric. Research Institute, Ministry of Agriculture, Natural Resources and Environment, Cyprus
- P T2-02 **Regulation of gene expression in roots of cabbage varieties differing in root hair growth under P-deficiency**
Bremer Melanie & Manfred K. Schenk*
Institute of Plant Nutrition, Leibniz Universität Hannover, Hannover, Germany
- P T2-03 **Pollen characteristics of intergeneric crossings in the family of the *Ranunculaceae***
Dhooghe E., D. Reheul & M.C. Van Labeke
Department of Plant Production, Faculty of Bioscience Engineering, Gent, Belgium
- P T2-04 **Histological and molecular analysis in self-incompatible and inter-compatibles mandarins**
Distefano G.¹, G. Las Casas¹, M. Caruso¹, A. Gentile¹, S. La Malfa¹, S. Del Duca², M. Herrero³ & E. Tribulato¹
¹Dipartimento di OrtoFloroArboricoltura e Tecnologie Agroalimentari, University of Catania, Italy,
²Dipartimento di Biologia Evoluzionistica Sperimentale, University of Bologna, Italy,
³Departemento de Pomologia, Estación Experimental de Aula Dei, Consejo Superior de Investigaciones Científicas, Zaragoza, Spain
- P T2-05 **Haploid technology in fruit tree breeding**
Germana Maria Antonietta
Dipartimento S.EN.FI.MI.ZO. Facoltà di Agraria. Università degli Studi di Palermo, Palermo. Italy
- P T2-06 **The development of SNPs (Single Nucleotide Polymorphism) markers in *Fragaria vesca* and *Rubus idaeus* and their transferability between the two species.**
Palmieri Luisa, Alessio Saviane, Maddalena Sordo, Stella Grando & Lara Giongo*
IASMA, San Michele all'Adige, Italy
- P T2-07 **Proteome anlysis of wild and cultivated *Cynara cardunculus* L. sl.**
Guarino Carmine, Luciana De Simone, Simona Santoro & Filomena Porcaro
Department of Biological and Environmental Sciences, University of Sannio, Benevento, Italy
- P T2-08 **Immundiagnostic method to detect viruses in *Agaricus* species**
Halász Krisztián¹, András Geösel¹, Melinda Bray², József Szarvas², Csaba Hajdú² & Noémi Lukács¹
¹Corvinus Univ. Budapest, Dept. of Plant Physiology and Plant Biochemistry, Hungary, ² Pannonia Mushroom Compost Ltd., Demjén, Hungary
- P T2-09 **Formation of embryo like structures on *Pelargonium***
Hauser Bernhard
Technische Univerität München, Wissenschaftszentrum Weihenstephan, Freising-Weihenstephan, Germany
- P T2-10 **Priming onion seed lots differing in the level of ageing for improved germination and emergence**
Jagosz Barbara & Barbara Michalik
Agricultural University in Krakow, Poland
- P T2-11 **Cloning and molecular characterization of double-stranded RNA of two Beet Cryptic Viruses (BCV1 and -2)**
Szegő A.¹, N. Enünlü², D. Veliceasa², P. S. Desmukh², L. Szilák², & N. Lukács^{1,2}
¹Corvinus Univ. of Budapest, Department of Molecular Plant Physiology and Plant Biochemistry, Budapest, Hungary, ²Biological Researcher Center, Institute of Plant Biology, Szeged, Hungary

- P T2-12 **Genetic, environmental and molecular components affecting pollen viability and sexual incompatibility in olive tree (*Olea europaea* L.)**
Koubouris G.^{1,3}, I. Metzidakis¹, A. Doulis² & M. Vasilakakis^{3}*
¹Olive Cultivation and Post Harvest Physiology Laboratory, Institute of Olive Tree and Subtropical Plants, Chania, Greece, ²Plant Biotechnology Laborator, Institute of Viticulture, Floriculture & Vegetable Crops, Heraklion, Greece, ³Pomology Laboratory, School of Agriculture, Aristotle University of Thessaloniki, Thessaloniki, Greece
- P T2-13 **Use of molecular markers linked to QTLs for fire blight resistance in pear breeding**
Christen Danilo^{1}, Pierre-Marie Le Roux¹, Markus Kellerhals¹, Jürg Frey¹, Brion Duffy¹, Andrea Patocchi¹, Luca Dondini², Stefano Tartarini², Silvano Sansavini² & Toshiya Yamamoto³*
¹Agroscope Changins-Wädenswil Research Station ACW, Conthey and Wädenswil, Switzerland, ²Dipartimento di Colture Arboree, University of Bologna, Italy, ³National Institute of Fruit Tree Science, University of Tsukuba, Japan
- P T2-14 **Biotechnological approaches to control the expression of potential allergens in small fruits**
Marzban Gorji, Fatemeh Maghuly, Anita Herndl, Elena Popovich, Elitza Stoyanova, Hermann Katinger & Margit Laimer
 Plant Biotechnology Unit, IAM, Department of Biotechnology, BOKU, Vienna, Austria
- P T2-15 **Studies on ABA sensitivity and drought tolerance in *Arabidopsis* and tomato**
Bacsó Renáta^{1}, T. Janda², A. Molnar¹, V. Nagy¹, B. Marton¹ & I. Papp¹*
¹Dept of Plant Physiology and Plant Biochemistry, Corvinus Univ. of Budapest, Budapest, Hungary, ²Agric. Research Inst. of the Hungarian Academy of Sciences, Martonvásár, Hungary
- P T2-16 **New digital techniques for yield prediction of fruit crops**
Blanke Michael M.
 INRES - University of Bonn, Germany
- P T2-17 **Response of transgenic mannitol-producing tobacco plants to water deficit.**
Macaluso L., R. Lo Bianco & M. Rieger
 Università degli Studi di Palermo - Dipartimento S.En.Fi.Mi.Zo - Sezione di Frutticoltura Mediterranea, Tropicale e Subtropicale., Italy
- P T2-18 **A wholistic approach in understanding oak drought stress response**
Schulz N.^{1}, E. Wilhelm¹, K. Burg¹, S. Fluch¹, M. Oufir² & J.-F. Hausman²*
¹Austrian Research Centers GmbH, Seibersdorf, Austria, ²Centre de Recherche Public Gabriel Lippmann, Luxemburg
- P T2-19 **Impact-Analytics: implementation of Bioelectric Recognition biosensors to enhance absolute food safety on a country wide scale**
Ulrichs Christian^{1,2} & Spiridon E. Kintzios^{1,3}
¹Impact-Analytics GmbH, Berlin, Germany, ²Humboldt-Universität zu Berlin, Urban Horticulture, Berlin, Germany, ³Agricultural Biotechnology, Agricultural University of Athens, Athens, Greece
- P T2-20 **In vitro micropropagation of *Adenium* selections by axillary branching**
Hajji M.¹ & B. Watillon^{2}*
¹Belgis Biotech S.A., Gembloux, Belgium, ²CRA- W Biotechnology Dept., Gembloux Belgium
- P T2-21 **Quality in peach fruit: the locus *f* in two peach populations**
*Vendramin E. *, R. Quarta, M. T. Dettori, S. Micali, J. Giovinazzi & I. Verde*
 CRA, Centro di Ricerca per la Frutticoltura, Rome, Italy
- P T2-22 **Developing a VIGS vector for cucumber (*Cucumis sativus* L.)**
Deák, T.^{1}, Gy. D. Bistray¹ & J. Burgyán²*
¹Corvinus Univ. of Budapest, Dept. of Genetics and Plant Breeding, Budapest, Hungary, ²Agric. Biotechnology Center, Gödöllő, Hungary

Posters Theme 3

- P T3-01 **Possibilities for unpolluted crop production in heavy metal contaminated areas**
Cvetkovic J., G. Popsimonova, D. Mukaetov & T. Stafilov
Institute of Agriculture, Sts. Cyril and Methodius University, Macedonia
- P T3-02 **The Influence of Climatic Changes On Quality of Wines Obtained From The Romanian Varieties of Grapes**
Băducă Cîmpeanu C.^{1}, M. Gheorghită², G. Beleniuc³, D. Boboc⁴, C. Muntean⁵ & J. E. Pardo Gonzalez⁶*
^{1,2,5} University of Craiova, Faculty of Horticulture, Department of Oenology, Craiova, Romania, ³SC AGERFERM SRL, Constanta, Romania, ⁴Romanian Autorised Testers Association, Romania, ⁶University La-Mancha, Albacete, Spain
- P T3-03 **Plant damages in zoo exhibits**
Balder Hartmut, M. Haas & W. Sasse*
University of Applied Sciences Berlin, Berlin, Germany
- P T3-04 **Reduced water use in the management of containerised bedding plants: effects on ornamental properties, growth and physiology - *Petunia* case study**
Blanusa Tijana^{1,2}, Alison Caldwell² & Ross Cameron²*
¹Horticultural Sciences Department, The Royal Horticultural Society, Wisley, UK, ²School of Biological Sciences, Plant Science Laboratories, University of Reading, Whiteknights, Reading UK
- P T3-05 **Monitoring and evaluation of environmental factors incidence on biodiversity variability in wine- growing**
Cichi Daniela Doloris¹, Dorin Constantin Costea¹, Ion Olteanu¹, Ramona Capruciu¹, Daniela Ciupeanu Calugaru^{1}, Mihai Cichi² & L. C. Maracineanu¹*
¹University of Craiova, Faculty of Horticulture, Craiova, Romania, ²University of Craiova, Faculty of Agriculture, Craiova, Romania
- P T3-06 **The influence of the varied hydric regime on the bioproductive parameters of Grapevine**
Dorin C. Costea, Daniela Doloris Cichi, Ion Olteanu, Ramona Capruciu*, Elena Nadia Genoiu & L.C. Mărăcineanu*
University of Craiova, Faculty of Horticulture, Craiova, Romania
- P T3-07 **Influence of irrigation on nut traits, production and photosynthetic activity of hazelnut cultivar ‘Tonda di Giffoni’**
Cristofori V.^{1}, C. Cammilli¹, E. Rugini¹ & C. Bignami²*
¹Dipartimento di Produzione Vegetale, Università degli Studi della Tuscia, Viterbo, Italy, ²Dipartimento di Scienze Agrarie e degli Alimenti, Università degli Studi di Modena e Reggio Emilia, Italy
- P T3-08 **Isotopic evidences and constrains in atmosphere-soil-plant system**
Feurdean Lucia^{1}, Victor Feurdean¹, Silviu Apahidean², Maria Apahidean² & Augusta Lujerdean²*
¹National Institute of Research and Development for Isotopes and Molecular Technologies, Cluj-Napoca, Romania, ²University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania
- P T3-09 **Study of climatical variability influence on several quality parameters of black grapes varieties for high quality wines**
Genoiu Elena Nadia, Traian Catalin Genoiu, Ion Olteanu, Daniela Doloris Cichi & Dorin Constantin Costea*
Faculty of Horticulture, University of Craiova, Romania

- P T3-10 **Evaluating drought adaptation in olive trees grown under different irrigation regimes through high resolution stem growth analysis**
Giovannelli A.¹, R. Tognetti², R. d'Andria³, F. Morelli³, F. Fragnito³ & A. Lavini³
¹Laboratorio Xilogenesi, Istituto Valorizzazione Legno e Specie Arborea (CNR–IVaLSA), Sesto Fiorentino (FI), Italy, ²Dipartimento di Scienze e Tecnologie per l'Ambiente e il Territorio (STAT), Università del Molise, Pesche (IS), Italy, ³ CNR –Istituto per i Sistemi Agricoli e Forestali del Mediterraneo, Ercolano (Napoli), Italy
- P T3-11 **The estimation of winter hardiness of peach trees on Pumiselect rootstock in the conditions of Poland**
*Szewczuk Adam & Ewelina Gudarowska**
 Wrocław University of environmental and life sciences, Department of horticulture, Poland
- P T3-12 **Risk analysis of the establishment of the Western Flower Thrips (*Frankliniella occidentalis*) under outdoor conditions in Austria as a result of the climatic change**
Kahrer Andreas^{1} & Herbert Formayer²*
¹Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria, ² University of Natural Resources and Applied Life Sciences, Institute of Meteorology, Vienna, Austria
- P T3-13 **An assembled project to evaluate past and future impacts of global warming on agronomic traits in fruit tree crops, exploiting a phenological database and optimizing an experimental network**
Legave J. M.^{1}, B. Baculat², B. Gleizer³, C. Hilaire³, M. Jay³, V. Mathieu³ & J. F. Berthoumieu⁴*
¹INRA Montpellier, France, ²INRA Avignon, France, ³Ctifl Nîmes, France, ⁴Acmg Agen, France
- P T3-14 **In-situ visualization of water flow in seedling using neutron radiography**
Matsushima Uzuki¹, Nikolay Kardjilov², André Hilger² & Werner Herppich³
¹Faculty of Agriculture, Iwate Univ., Japan, ²Hahn-Meitner-Institut, Abt. SF3, Berlin, Germany, ³Leibniz-Institut für Agrartechnik Potsdam-Bornim, Potsdam, Germany
- P T3-15 **GIS aided Agro-ecological zoning of Republic of Macedonia**
Mukaetov Dusko, Ordan Cukaliev, Tijana Sekuloska & Julijana Cvetkovic
 Institute of Agriculture, Macedonia
- P T3-16 **The impact of the atmospheric noxes from Craiova town on some physiological parameters at annual flower species**
Nicu Carmen, Manda Manuela, Anton Doina & Elena Gavrilescu*
 Faculty of Horticulture, University of Craiova, Romania
- P T3-17 **Revealing the drought stress vulnerability of asparagus plants**
Schaller J. & P.-J. Paschold*
 Geisenheim Research Center, Section of Vegetable Crops, Geisenheim, Germany
- P T3-18 **The ornamental tree *Picea glauca* 'Conica' as a model plant for uptake studies with the environmental pollutant trinitrotoluene**
Schoenmuth Bernd^{1}, Tanja Scharnhorst¹, Wilfried Pestemer¹, Detlef Schenke² & Carmen Büttner¹*
¹Humboldt University, Berlin, Germany, ²Federal Research Centre for Agriculture and Forestry (BBA), Berlin, Germany
- P T3-19 **The complex effect of environmental stress factors on phytohormone system in carrot leaves**
Urbonavičiūtė Akvilė, Giedrė Samuolienė, Jurga Sakalauskaitė, Gintarė Šabajevienė, Aušra Brazaitytė & Povilas Duchovskis
 Lithuanian Institute of Horticulture, Lithuania
- P T3-20 **Verifiability and molecular analysis of Cherry leaf roll virus infecting Finnish *Betula* spp.**
Grubits Elise^{1}, Susanne von Barga¹, Risto Jalkanen² & Carmen Büttner¹*
¹Humboldt-Universität zu Berlin, Berlin, Germany, ²Metla, Finnish Forest Research Institute, Rovaniemi, Finland

- P T3-21 **Impact of Substrates and Fertilization on Quality of Drainage Water of Extensive Roof Greening**
Jauch Martin¹, Elke Meinken¹ & Ludwig Nätscher²*
¹Research Institute for Horticulture at the Weihenstephan University of Applied Sciences, Freising, Germany, ²Nutrition and Food Research Center, TU München, Freising, Germany
- P T3-22 **Horticultural plants in unstable climate**
Markovskaya Eugenia F., Marina I. Sysoeva & Elena G. Sherudilo
 Petrozavodsk State University, Petrozavodsk, Russia
- P T3-23 **Influence of climate on flowering phenology of pome and stone fruit in Romagna (Italy)**
Bergamaschi M., D. Giovannini, A. Liverani & S. Sirri*
 C.R.A. - Unità di ricerca per la Frutticoltura, Forlì, Italy
- P T3-24 **Influence of spatial variability of soil properties on the response of a citrus orchard under regulated deficit irrigation**
Fernández José Luis Muriel
 Centro IFAPA, Las Torres-Tomejil, Sevilla, Spain

Posters General Themes

- P TG-01 **Water management and productivity of olive trees (*Olea europaea* L.) in Southern Italy: results from a four-year field study**
*d'Andria R.*¹, A. Lavini¹, M. Patumi¹, G. Morelli¹, R. Tognetti² & L. Sebastiani³*
¹CNR - Institute for Agricultural and Forest Mediterranean Systems, Ercolano (NA), Italy, ²EcoGeoFor Lab, University of Molise, Pesche (IS), Italy, ³Biolabs, Scuola Superiore Sant'Anna, Pontedera (PI), Italy
- P TG-02 **Multi-criterial approaches for the inventory and the evaluation of traditional cultural landscapes**
Barbera Giuseppe¹, Rita Biasi², Federico Botti² & Sebastiano Cullotta¹
¹Dipartimento di Colture Arboree, Università di Palermo, Italy, ²Dipartimento di Produzione Vegetale, Università degli Studi della Tuscia, Italy
- P TG-03 **A biophysical model describing carbon and water fluxes in tomato fruit – a good candidate for the future virtual fruit**
Bertin N¹, P. Bussières¹, H-F Liu² & M. Génard¹*
¹INRA, UR1115 Plantes et systèmes de culture horticoles, Avignon, France, ²Agricultural College, Shi He Zi University, Shi, He Zi, Xin Jiang, China
- P TG-04 **Detached tomato fruit grown on various sucrose solutions and comparison with fruit grown on plant**
Bussières P¹, N. Bertin¹, R. Nasri², L. Valat² & H. Sallanon²*
¹INRA, UR1115 Plantes et systèmes de culture horticoles, Avignon, France, ²UMR A408 Sécurité et Qualité des Produits d'origine Végétale, Université d'Avignon, France
- P TG-05 **Studies Concerning the Behaviour of some Gladiolus Cultivars for Improving the Romanian Floral Assortment**
Cantor Maria, Adelina Dumitraş, Rodica Pop, Ioana Pop, Mirela Cordea & A. Zaharia*
 University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Faculty of Horticulture, Romania
- P TG-06 **Water salinity and SAR influence on yield and quality in fennel**
Cantore V.¹, G. Cucci G.², & G.Lacolla²
¹Istituto di Scienze delle Produzioni Alimentari, CNR, Bari, Italy, ²Dipartimento di Scienze delle Produzioni Vegetali, Università di Bari, Bari, Italy

- P TG-07 **Effects of the kaolin based particle film technology on temperature, gas exchange and yield of water stressed tomato**
Cantore V., B. Pace, & F. Boari
 Istituto di Scienze delle Produzioni Alimentari, CNR, Bari, Italy
- P TG-08 **Horticulture in Bosnia and Herzegovina**
Djuric Gordana, B. Pašalić & M. Cvetković
 Faculty of Agriculture, University of Banjaluka, Banjaluka, Bosnia & Herzegovina
- P TG-09 **Plant genetic resources in Republica Srpska (BiH)**
Djurić Gordana¹, Lidija Tomić¹, M. Cvetković¹, Đ. Gatarić¹, D. Mandić², D. Marković¹ & Danijela Kondić¹
¹Faculty of Agriculture, University of Banjaluka, Bosnia & Herzegovina, ²Agricultural Institute of Republika Srpska, Banjaluka, Bosnia & Herzegovina, Bulevar Vojvode Petra Bojovića 1A, 78 000 Banjaluka, Republika Srpska, Bosnia & Herzegovina
- P TG-10 **Reproductive biology: pistil development in some olive cultivars in central Italy**
Fornaciari Marco, Carlo Sgromo, Lara Reale, Francesco Ferranti, Fabio Orlandi, Tommaso Bonofiglio & Bruno Romano
 Department of Plant Biology, Agroenvironmental and Animal Biotechnology. Perugia University, Italy
- P TG-11 **Detection of Rhizoctonia diseases**
Grosch R.^{1}, J. H.M. Schneider², S. Jabaji-Hare³ & A. Kofeet¹*
¹Institute of Vegetable and Ornamental Crops (IGZ) Großbeeren/Erfurt e.V., Großbeeren, Germany, ²Institute of Sugar Beet Research (IRS), Bergen op Zoom, The Netherlands, ³Macdonald Campus, McGill University, Montreal, Canada
- P TG-12 **Quantification of calcium amount deposited on tomato fruit cuticles and apple seedling leaves by means of energy dispersive x-ray analysis**
Hunsche Mauricio, Andreas Ulbrich & Georg Noga
 Institute of Crop Science and Resource Conservation - Horticultural Sciences - University of Bonn, Germany
- P TG-13 **The effect of storage temperature on antioxidant activity in bell pepper during prolonged storage**
Ilic Zoran^{1}, Yacov Vinokur², Avital Ben-Yosef², Yacov Pertzelan², Sharon Alkalai-Tuvia² & Elazar Fallik²*
¹Faculty of Agriculture, Zubin Potok., Kosovska Mitrovica, Serbia, ²ARO- The Volcani Center, Postharvest Science of Fresh Produce, Israel
- P TG-14 **Possibilities to save Energy in Winter Production of potted Herb Species**
*Kell K. *, V. Heninng, Th. Jaksch & M. Beck*
 Research Institute for Horticulture at the Weihenstephan University of Applied Sciences, Freising, Germany
- P TG-15 **Biology of Downy mildew (*Peronospora* sp.) of basil (*Ocimum basilicum* L.)**
Kofoet A., P. Römer & R. Simon
 Institute of Vegetable and Ornamental Crops (IGZ) Grossbeeren/Erfurt e.V., Germany, GHG-Saaten GmbH, Germany, University of Applied Sciences Weihenstephan, Germany
- P TG-16 **Adaptation of spray solutions to weed surface characteristics: improvement of glyphosate deposit characteristics and biological efficacy**
Kraemer T., M. Hunsche & G. Noga*
 Institut of Crop Science and Resource Conservation -Horticultural Sciences- University of Bonn, Bonn, Germany

- P TG-17 **Biotechnological approaches to contain virus diseases in woody crop plants**
Laimer M.¹, F. Maghuly¹, M. A. Khan¹, E. Borroto-Fernandez¹, V. Hanzer¹, I. Balla^{2} & H. Katinger¹*
 Plant Biotechnology Unit, IAM, Dept. Biotechnology, BOKU, Wien, Austria, ²Research Institute for Fruitgrowing and Ornamentals, Budapest, Hungary
- P TG-18 **Nutraceutical value of local fruit species germplasm in agroecosystems of the Alps**
Mellano Maria Gabriella, Gabriele Loris Beccaro & Giancarlo Bounous
 Department of Arboriculture, University of Torino, Grugliasco (TO), Italy
- P TG-19 **Effects of cultivation temperature, chilling and inoculation with endophytes on photosynthetic parameters of different pepper (*Capsicum annuum*) varieties**
Nagltreiter Ch.¹, H. R. Bolh ar-Nordenkamp², F. Rasche³, A. Sessitsch³ & Th. G. Reichenauer^{1}*
¹Austrian Research Centers GmbH – ARC, Abt. f. Umweltforschung, Seibersdorf, Austria,
²University of Vienna, Dept. of Plant-ecophysiology and functional Anatomy of Plants, Vienna, Austria, ³Austrian Research Centers GmbH-ARC, Dept. of Bioresources, Seibersdorf, Austria
- P TG-20 **Differences in light (PAR) and their effect on the physiology and morphology of *Allium ursinum* L.**
Almstedt R., M. Klinkhammer, A. Ulbrich & R. Pude
 Bonn University, INRES - Horticultural Sciences, Wesseling, Germany
- P TG-21 **Research concerning greenhouse tomatoes grown on organic substratum in Transilvania-Romania**
Apahidean Al. S., M. Apahidean, R. Sima, D. Maniutiu & E. Csok*
 University of Agriculture Sciences and Veterinary Medicine, Cluj-Napoca, Romania
- P TG-22 **Effects of Intercropping-systems on Red Radish**
Balas Johannes, Alexandra Kreuzer, Daniela Noll, Thomas Leichtfried, Dennis Reitingner & Markus Hohenecker*
 University of Natural Resources and Applied Life Sciences, Vienna, Austria
- P TG-23 **Flavonoid and ascorbic acid content in a red-pigmented *Lactuca sativa* variety as affected by different light conditions**
*Behn H. *, A. Ulbrich, M. Schmitz-Eiberger & G. Noga*
 Bonn University, Inst. of Crop Sciences and Resource Conservation – Horticultural Sciences, Bonn, Germany
- P TG-24 **Multimedia support in the problem-based and interdisciplinary lecture on ‘Agricultural Marketing and Quality Management’**
Bokelmann Wolfgang, Georg Ruhm & Andrea von Allw orden*
 Humboldt University of Berlin, Faculty of Agricultural and Horticultural Sciences, Institute for Economics and Social Science, Berlin, Germany
- P TG-25 **A process oriented and stochastic model for asparagus spear growth**
Graefe Jan, Carmen Feller & Adolf Hei fner*
 Institute of Vegetable and Ornamental Crops, Grossbeeren, Germany
- P TG-26 **Effects of mechanically induced stress on growth and development of tomato (*Lycopersicon esculentum* Mill.) seedlings**
*Henne K. E. *, J. Pfenning & H.-P. Liebig*
 Inst. of Special Crop Cultivation and Crop Physiology, Univ. of Hohenheim, Stuttgart, Germany
- P TG-27 **Application of manure fertilizer on the basis of sheep’s wool in the horticulture**
Herfort S.¹, H. Gr uneberg² & M. B ohme²
¹Inst. of Agricultural and Urban Ecological Projects (IASP) at the Humboldt-University of Berlin, Germany ²Humboldt-University of Berlin, Inst. of Horticultural Sciences, Section Horticultural Plant Systems, Germany

- P TG-28 **Introducing e-learning to horticulture teaching and training**
*Calmbach Marc**, *Holger Strunk** & *Christoph Hintze*
 LVG Heidelberg, Heidelberg, Germany
- P TG-29 **Effect of a new “silver” PE greenhouse covering film on microclimate and production of a tomato crop**
Katsoulas N., M. Katsoupa, Ch. Papaioannou & C. Kittas
 University of Thessaly, School of Agricultural Sciences, Dept. of Agriculture Crop Production and Rural Environment, Magnesia, Greece
- P TG-30 **Comparing of yield and nutrient status of greenhouse tomato grown in drainage and recirculating nutrient systems**
Piróg József¹ & Andrzej Komosa^{2}*
¹ Department of Vegetable Crops, Agricultural University of Poznań, Poland ²Department of Horticultural Plant Nutrition, Agricultural University of Poznań, Poland
- P TG-31 **Development of techniques for rapid production of rattan seedlings**
Kouakou K. L.^{1,2}, I. A. Zoro Bi¹ & J-P. Baudoin²*
¹Université d’Abobo-Adjamé, UFR des Sciences de la Nature, Laboratoire de Biologie et Amélioration des Productions Végétales, Côte d’Ivoire, ²Gembloux Agricultural University (FUSAGx), Unité de Phytotechnie tropicale et d’Horticulture, Gembloux, Belgium
- P TG-32 **Productive and vegetative responses of ‘Gala’ and ‘Fuji’ apple trees under controlled irrigation strategies**
Talluto G., G. Volpe, V. Farina & R. Lo Bianco
 Università degli Studi di Palermo - Dipartimento S.En.Fi.Mi.Zo - Sezione di Frutticoltura Mediterranea, Tropicale e Subtropicale., Palermo, Italy
- P TG-33 **Study regarding to the application of some cultural techniques with the view to obtain "reduced size plants" - Establishing of some methods of reducing of size plants at some flower species decorative by leaves**
Manda Manuela, Carmen Nicu & Anton Doina
 Faculty of Horticulture, University of Craiova, Romania
- P TG-34 **The BBCH Scale. - Codification and description of phenological growth stages of plants and there international use in horticultural and agricultural research**
Meier Uwe
 Federal Research Centre for cultivated Plants, Julius Kuehn Institute, Braunschweig, Germany
- P TG-35 **Restricted Irrigation Effects on Peach and Nectarine Fruit Growth, Quality and Storage Ability**
Nanos George, Eleni Pliakoni, Nikolaos Katsoulas & Constantinos Kittas*
 School of Agricultural Sciences, University of Thessaly, Volos, Greece
- P TG-36 **Optimized nitrogen management in the production of chicory roots with respect to chicon quality**
Neuweiler Reto & Juergen Krauss
 Federal Department of Economic Affairs DEA, Agroscope Changins-Waedenswil Research Station ACW, Waedenswil, Switzerland
- P TG-37 **Fate of thiacloprid applied in nutrient solution to a tomato crop grown in a closed hydroponic system**
Patakioutas, G¹, G. Karras^{1}, M. Anagnostou³, V. Loutsou¹, D. Savvas² & V. Triantafyllidis¹*
¹Department of Floriculture and Landscape Architecture, Technological Educational Institute (T.E.I.) of Epirus, Arta, Greece, ²Agricultural University of Athens, Department of Crop Science, Laboratory of Vegetable Production, Athens, Greece

- P TG-38 **Behaviour of some high valuable ornamental species/varieties within propagation, growther and fortification process for a better quality and impact of green spaces on the environment**
Posedaru Alina & Mădălina Militaru*
 Research Institute for Fruit Growing Pitesti-Maracineni, Arges, Romania
- P TG-39 **Formation of honey guides in *Rudbeckia hirta***
Schlangen Karin¹, Silviya Miosic¹, Florian Vitzthum², Wilfried Schwab², Sonja Gamsjäger³, Maurizio Musso³, Karl Stich¹ & Heidi Halbwirth¹
¹Technische Universität Wien, Institut für Verfahrenstechnik, Umwelttechnik und Technische Biowissenschaften, Austria, ²Technische Universität München, Biomolekulare Lebensmitteltechnologie, Germany, ³Universität Salzburg, Department für Materialforschung und Physik, Austria
- P TG-40 **Flavonoid metabolism in apple leaves after infection with different strains of *Erwinia amylovora***
Gosch Christian¹, Karin Schlangen¹, Heidi Halbwirth¹, Brion Duffy² & Karl Stich¹
¹Technische Universität Wien, Institut für Verfahrenstechnik, Umwelttechnik und Technische Biowissenschaften, Austria, ²Agroscope FAW Wädenswil, Plant Protection Division, Switzerland
- P TG-41 **Does Flavonoid 3'-hydroxylase accept also chalcones as substrates?**
Halbwirth Heidi¹, Fuat Topuz¹, Karin Schlangen¹, Christian Seitz² & Karl Stich¹
¹Technische Universität Wien, Institut für Verfahrenstechnik, Umwelttechnik und Technische Biowissenschaften, Austria, ²Technische Universität München, Lehrstuhl für Zierpflanzenbau, Germany
- P TG-42 **Pest Risk Analysis for *Metcalfa pruinosa* Say, an introduced planthopper to Austria**
Strauss Gudrun
 Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria
- P TG-43 **Comparison of the genetic diversity of Hungarian apricot cultivars and group of cultivars from Middle Asia, North America and Mediterranean area**
Pedryc A. & R. Hermán & J. Halász*
 Corvinus University of Budapest, Department of Genetics and Plant Breeding, Budapest, Hungary
- P TG-44 **A new conception for the hypothetical infection mechanism of blossom blight [*Monilia laxa* (Ehr.)] on apricot**
Gutermuth A. & A. Pedryc*
 Corvinus University of Budapest, Department of Genetics and Plant Breeding, Budapest, Hungary
- P TG-45 **First Report of Potato Spindle Tuber Viroid (PSTVd) on Ornamental Plants in Austria**
Gottsberger Richard, Betty Suarez-Mahecha, Helga Reisenzein*
 Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria
- P TG-46 **Occurrence and spread of *Scaphoideus titanus* in Austria**
Zeisner Norbert
 Austrian Agency for Health and Food safety, Institute for Plant Health, Vienna, Austria
- P TG-47 **Molecular Pathways for Detection of *Xanthomonas axonopodis* pv. *poinsetticola*, the Bacterial Leaf Spot Pathogen on *Euphorbia pulcherrima***
Plenk Astrid & Richard Gottsberger
 Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria
- P TG-48 **Grapevine phytoplasma diseases – possible risks for the Austrian viticulture**
Reisenzein Helga, Robert Steffek & Norbert Zeisner
 Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria

- P TG-49 **Influence of Effective Microorganisms as a means of improving the quality of tomatoes in protected cultivation**
RK Ndona¹, A. Spornberger¹, K. Jezik¹, J. K. Friedel², T. Rinnofner², M. Laimer³, G. Marzban³, H. Klima⁴
¹Department of Applied Plant Sciences and Plant Biotechnology, Institute of Horticulture, Fruit-Growing and Viticulture, University of Natural Resources and Applied Life Sciences, Vienna, Austria, ²Department of Sustainable Agricultural Systems, Division of Organic Farming, University of Natural Resources and Applied Life Sciences, Vienna, Austria, ³Department of Biotechnology, Institute for Applied Microbiology, Unit of plant Biotechnology/Proteomics, University of Natural Resources and Applied Life Sciences, Vienna, Austria, ⁴Atomic Institute of the Austrian Technical University, Vienna, Austria
- P TG 50 **Quarantine Insects on Imported Orchids: A Modified Realtime PCR Identification Method for *Thrips palmi* Larvae**
*Gottsberger, R. A. *, G. Grabenweger & A. Kahrer*
 Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria
- P TG 51 **Current Fire Blight Situation in Austria, Control Strategies and Measurements**
Persen U. & J. Schaffer
 Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria
- P TG 52 **Inhibitory Effect of Some Medicinal Plants Essential Oils on Post-Harvest Fungal Disease of Greenhouse Tomato Fruits**
Arouiee¹, H. & Hasanzadeh Mobini², S.
¹ Horticultural Department, College of Agriculture, Ferdowsi University of Mashhad, IRAN, ²MS Student in College of Agriculture, UPM University, Malaysia
- P TG 53 **Multiple Cropping for *Myopardalis pardalino* Control of *Cucumis melo* var. *inodorus***
Arouiee¹ H. & Dariny K. Khalili Dariny
¹Horticultural Dep , College of Agriculture, Ferdowsi University, Mashhad , Iran
- P TG 54 ***Ferula assa-foetida* as a Natural Pesticide for Aphids and Spider Mite Control in Peach, Plum and Sweet Cherry Orchards**
Arouiee H.
 Horticultural Dep., College of Agriculture, Ferdowsi University, Mashhad, Iran

Tuesday, February 19th, 2008

11.30 – 12.30 Poster session Themes 4, 5, & 6 in the foyers

Posters Theme 4

- P T4-01 **Newly Developed Plant Factories: a Low-Cost Approach Using Hybrid Electrode Fluorescent Lamps**
Hiromi Akiko & Haruhisa Inden*
 Faculty of Agriculture, University of Miyazaki, Japan
- P T4-02 **Improving vegetable yield and quality standards in organic farming by defining functional cultivation protocols**
Maggio Albino & Stefania De Pascale
 Department of Agricultural Engineering and Agronomy - University of Naples Federico II, Italy

- P T4-03 **Application of saccharose during blossom to attract honey bees and their influence on yield and quality of strawberries (*Fragaria x ananassa*)**
Reinisch D.¹, A. Spornberger¹, H. Pechhacker², R. Steffek^{2} & J. Altenburger²*
¹Univ. of Natural Resources and Applied Life Sciences, Inst. of Horticulture and Viticulture, Vienna, Austria, ²Univ. of Natural Resources and Applied Life Sciences, Dept. of Sustainable Agricultural Systems, Vienna, Austria, ³Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria
- P T4-04 **Nano-structured silica based insecticides**
Mucha-Pelzer Tanja^{1}, N. Debnath², A. Goswami², I. Mewis¹ & Ch. Ulrichs¹*
¹Section Urban Horticulture, Institute for Horticultural Science, Humboldt University Berlin, Germany, ²Biological Sciences Division, Indian Statistical Institute, Kolkata, India
- P T4-05 **How to get potato plants resistant to low temperatures and nematode invasion**
*Sysoeva Marina I. *, Elizaveta M. Matveeva & Elena G. Sherudilo*
 Institute of Biology, Karelian Research Centre of Russian Academy of Sciences, Russia
- P T4-06 **Strategies for alternative energy supply in greenhouse production in Saxony, Germany - comparative cost methods for different combustibles and perspectives for a CO₂ reduction**
*Ruhm G. *, N. Gruda, W. Bokelmann & U. Schmidt*
 Humboldt University of Berlin, Faculty of Agriculture and Horticulture, Department of Agricultural Economics and Social Sciences and Department of Horticultural Sciences, Berlin, Germany
- P T4-07 **Living mulches in field tomato production**
Adameczewska-Sowińska Katarzyna & Eugeniusz Kolota*
 Wroclaw University of Environmental and Life Sciences, Wroclaw, Poland
- P T4-08 **Evaluation of coated slow-release fertilizer for low temperature cultivation of ornamental plants**
Amberger-Ochsenbauer Susanne
 Res. Inst. for Horticulture, Weihenstephan Univ. of Applied Sciences, Freising, Germany
- P T4-09 **Life cycle assessment (LCA) and food miles - an energy balance for fruit imports versus home-grown apples**
Blanke Michael M.
 INRES - University of Bonn, Germany
- P T4-10 **Comparison of big gun sprinkler and mini sprinkler irrigation systems for the Radicchio cultivation: evaluation of environmental impact and crop production**
Bortolini Lucia¹, Maurizio Borin² & Tomaso Bisol^{1}*
¹Dept. Land Use and Agro-Forestry Systems, ²Dept. Environmental Agronomy and Crop Production, University of Padua, Italy
- P T4-11 **Indicators of nitrogen status for ornamental woody plants**
Demotes-Mainard Sabine^{1}, Rachid Boumaza¹, Sylvie Meyer² & Zoran G. Cerovic²*
¹UMR462 SAGAH INRA-INH-Université d'Angers, Beaucouzé, France, ²ESE, UMR8079 CNRS-Université Paris 11, Orsay, France
- P T4-12 **Utilisation of cooling tower water of power plants in order to reduce expenses for greenhouse heating, to increase the primary energy efficiency, and to reduce CO₂-emissions**
von Elsner Burkhard
 Biosystems and Engineering Section, Institute of Biological Production Systems, Leibniz University Hannover, Germany
- P T4-13 **Soil-plant N dynamics in processing tomato grown with different fertigation-irrigation frequencies**
Farneselli Michela, Paolo Benincasa & Francesco Tei
 University of Perugia, Dept. of Agricultural and Environmental Sciences, Italy

- P T4-14 **Comparison of a standard climatic regime and a 24 h temperature integration regime in tomato soilless culture**
Granges André, Gilli Céline & Jean-Michel Gillioz*
 Agroscope Changins-Wädenswil Research Station ACW, Switzerland
- P T4-15 **Mechanical weed control of the intra-row area with robotic system**
Gobor Zoltan, Lutz Damerow & Peter Schulze Lammers*
 University of Bonn, Institute for Agricultural Engineering, Bonn, Germany
- P T4-16 **Five years of the fungus *Monilinia* on blueberries in Europe: Status quo vadis**
Gosch Christian¹ & Theresia Gosch²*
¹Vienna University of Technology, Institute of Chemical Engineering, Vienna, Austria,
²Heidelbeergarten Gosch, St. Ulrich im Greith, Austria
- P T4-17 **Yield and quality of field-grown vegetables at different sites in Europe as affected by fertilizer application together with the nitrification inhibitor DMPP and its environmental implications**
Hähndel R. & A. H. Wissemeier*
 BASF Agricultural Center, Limburgerhof, Germany
- P T4-18 **Estimation of nitrogen release in garden soils**
Konnemann H.¹, A. Bucher¹, E. Meinken¹ & L. Nätscher²
¹Research Institute for Horticulture, Weihenstephan University of Applied Sciences, Germany,
²Nutrition and Food Research Center, TU München, Germany
- P T4-19 **Assessing critical nitrate concentration in the root zone of a fertigated, soil-grown, tomato crop**
Lecompte François¹ & Frédérique Bressoud²*
¹INRA, UR Plantes et Systèmes de culture Horticoles, Avignon, France, ²INRA, UE d'Alénya, Alénya, France
- P T4-20 **Influence of different techniques of fertilization on lettuce cultivated in southern Italy**
Losavio Nicola, Rita Leogrande, Ornella Lopodota & Francesco Montemurro*
 CRA - Agriculture Research Council, Metaponto, Italy
- P T4-21 **Controlling products in retailing market gardens**
Meggendorfer Ludwig & Sonja Reichenbach
 Technische Universität München, Lehrstuhl für Betriebswirtschaftslehre - Marketing und Konsumforschung, Germany
- P T4-22 **Building sustainable cropping systems by combining scientific and empirical knowledge. The example of soil-born disease control on vegetable sheltered crops**
Tchamitchian M.¹, M. Navarrete¹, F. Bressoud², J. Fauriel¹, & L. Pares²*
¹INRA Écodéveloppement, Domaine St Paul, Avignon, France, ²INRA, Domaine Expérimental Horticole du Mas Blanc, Alénya, France
- P T4-23 **Effects of strategies for N fertilization and fixed ploughing date on field vegetable cultivation and nitrate leaching**
Pfenning, J.¹, A. Schwarz², G. Zühlke¹, W.-A. Bischoff² & H.-P. Liebig¹*
¹Institute of Special Crop Cultivation and Crop Physiology, Vegetable Science, University of Hohenheim, Stuttgart, Germany, ²Gutachterbüro TerrAquat, Stuttgart, Germany
- P T4-24 **Improving mechanical weed management as an alternative for chemical weed control in selected medicinal herbs**
Pietzsch K., A. Ulbrich & R. Pude
 Bonn University, INRES -Horticultural Sciences, Germany

- P T4-25 **Control of *Trialeurodes vaporariorum* with parasitoid wasps and the predatory mite *Amblyseius swirskii* in cut flower gerbera**
Richter Ellen^{1*}, *Oliver Berndt*² & *M. Hommes*²
¹State Institute for Agriculture and Fishing Research Mecklenburg-Western Pomerania, Centre of Excellence for Vegetable Production, Gülzow, Germany, ²Institute for Plant Protection in Horticulture, Julius Kuehn Institute, Braunschweig, Germany
- P T4-26 **Competitiveness of Fresh Produce Production in Europe**
Riedel Bettina
 Humboldt-Universität zu Berlin, Wirtschafts- und Sozialwissenschaften des Landbaus, Ökonomik der Gärtnerischen Produktion, Germany
- P T4-27 **Alleviation of salt stress in *Cynara cardunculus* L. var. *scolymus* Fiori by arbuscular mycorrhizal fungi**
Ruta Claudia, Anna Tagarelli & Irene Morone-Fortunato
 Department of Scienze delle Produzioni vegetali, Università degli Studi di Bari, Bari, Italy
- P T4-28 **Using of Phytoproducts for Plant Protection in Biological Horticulture**
Šalamon Ivan
 Department of Ecology, Faculty Humanity and Natural Sciences, Presov University, Slovakia
- P T4-29 **Pathogenicity of entomopathogenic fungi to endophytic leaf miner moth**
*Kalmus Marko*¹, *Claudia Wendt*², *Sandra Lerche*¹, *Helga Sermann*¹ & *Carmen Büttner*¹
¹Humboldt-Universität zu Berlin Landwirtschaftlich-Gärtnerische Fakultät, FG Phytomedizin, Germany, ²Biologische Bundesanstalt für Land- und Forstwirtschaft, Berlin, Germany
- P T4-30 **The use of brassicas to reduce inoculum potential of soil-borne pests in Austrian horticulture**
*Robert Steffek*¹, *Andreas Spornberger*², *Karl Stich*³ & *Luca Lazzeri*⁴
¹AGES, Institute of Plant Health, Vienna, Austria, ²University of Natural Resources and Applied Life Sciences, Vienna, Austria, ³Technische Universität Vienna, Austria, ⁴ISCI, Research Institute for Industrial Crops, Bologna, Italy
- P T4-31 **Influence of the soil, fertilization and plant protection management systems on the apple ecosystem resilience**
*Sumedrea D. **, *E. Chitu*, *G. Teodorescu*, *M. Sumedrea* & *Fl. Marin*
 RIFG Research Institute for Fruit Growing Pitesti, Maracineni, Romania
- P T4-32 **Attempts to save energy in cultivation of bedding plants by a simple alternative temperature strategy**
Kohlrausch F., H.-P. Haas, L. Köhler, D. Prucker & T. Winkelmann
 Res. Inst. for Horticulture, Weihenstephan Univ. of Applied Sciences, Freising, Germany
- P T4-33 **Microclimate patterns under different shading nets**
Bartzanas Thomas, Catherine Baxevanou, Dimitris Feidas & Constantinos Kittas
 Centre for Research and Technology-Thessaly, Institute of Technology and Agricultural Ecosystems, Greece
- P T4-34 **Organic mulch in tree rows as an alternative to herbicide in apple**
Solomakhin A.^{1*} & *Michael M. Blanke*²
¹Michurinsk, Russia, ²INRES - University of Bonn, Germany
- P T4-35 **Regulation of fruit set by mechanical flower thinning in fruit crops**
*Damerow L. * & M. M. Blanke*
 Institute of Agricultural Engineering and INRES, University of Bonn, Germany
- P T4-36 **Assessing the possibility of biomass use on greenhouse heating using GIS**
Gialis Stelios, Thomas Bartzanas, Christos Tselios, Leonidas Toullos & Constantinos Kittas
 Univ. of Thessaly - Department of Agriculture Crop Production and Rural Environment, Greece

- P T4-37 **Criteria-based and value-oriented horticultural and agricultural practice in crop-growing**
Meier Uwe
Federal Biological Research Centre for Agriculture and Forestry (BBA), Germany
- P T4-38 **Use of industrially made Growing Media in Horticulture - a Survey**
Neumaier Dieter, Andreas Gabriel, Michael Heusser, Elke Meinken & Klaus Menrad
Res. Inst. for Horticulture, Weihenstephan Univ. of Applied Sciences, Freising, Germany
- P T4-39 **Treatments with effective microorganisms on apple flowers and influence of fungicides on microflora of effective microorganisms**
Spornberger A., R. Ndonga, B. Kögler & W. Kneifel
Univ. of Natural Resources and Applied Life Sciences, Inst. of Horticulture and Viticulture, Vienna, Austria
- P T4-40 **Fertilizers with nitrification inhibitors reduce deleterious effects of salt stress and over-fertilization in horticultural crops**
*Wissemeier A. H. *, W. Weigelt & R. Hähndel*
BASF Agricultural Center, Limburgerhof, Germany
- P T4-41 **Laser light beams for open field weed control in horticulture**
Wöltjen Christian¹, Dirk Herzog² & Thomas Rath¹
¹Biosystems and Horticultural Engineering Section, Leibniz University Hannover, Germany, ²Laser Zentrum Hannover e. V., Hannover, Germany
- P T4-42 **Characterization of physiological responses in strawberry to drought stress**
Razavi F & M. C. Van Labeke*
Department of plant production, Faculty of Bioscience and Engineering, Ugent, Belgium
- P T4-43 **Comparison of customer satisfaction in different types of distribution channels of horticultural products in Austria and Bavaria**
*Kitemann, F. *, M. Göttl, A. Gabriel & K. Menrad*
University of Applied Sciences Weihenstephan, Freising, Germany
- P T4-44 **Clustering of groups of regular customers in horticultural retail stores in Austria**
*Gabriel A. * & K. Menrad*
University of Applied Sciences Weihenstephan, Freising, Germany
- P T4-45 **Growth stage and conditions affect sorbitol: sucrose ratio in peach source and sink organs**
Lo Bianco R.
Univ. degli Studi di Palermo, Sezione di Frutticoltura Mediterranea, Tropicale e Subtropicale, Italy
- P T4-46 **Vision based plant recognition under overlapping situations in horticulture**
Pastrana Julio & Thomas Rath*
Biosystems and Horticultural Engineering Section, Leibniz University Hannover, Germany
- P T4-47 **Stabilisation of the colour of red fruit juices by admixture with apple phytochemicals**
Renard Catherine M. G. C., Philippe Sanoner & Stéphanie Guillotin
UMR08 Sécurité et Qualité des Produits d'Origine Végétale, INRA, Université d'Avignon, Avignon, France
- P T4-48 **Characteristics of early Ripening Strawberry Cultivars as tolerant alternatives to 'Elsanta' in *Verticillium* infested soils**
Spornberger, A.¹, J. Scheiblauer¹, H. Weissinger^{1}, R. Steffek², J. Altenburger², K. Stich³ & K. Jezik¹*
¹Univ. of Natural Resources and Applied Life Sciences, Department of Applied Plant Sciences and Plant Biotechnology, Vienna, Austria, ²Austrian Agency for Health and Food Safety, Institute for Plant Health, Vienna, Austria, ³Vienna University of Technology, Faculty of Technical Chemistry, Institute of Chemical Engineering, Vienna, Austria

- P T4-49 **Seasonal changes in photosynthetic activity and carbohydrate content in leaves of three fig cultivars (*Ficus carica* L.)**
*Vemmos S.**, *E. Petri* & *V. Stournaras*
 Department of Crop Science, Agricultural University of Athens, Athens, Greece
- P T4-50 **Annual balance of CO₂ exchange in an olive orchard: assessment by eddy covariance and biometric methods**
Pernice F.^{1}*, *A. Motisi¹*, *F. Rossi²*, *T. Georgiadis²*, *M. Nardino²*, *G. Fontana¹*, *G. Dimino³* & *A. Drago³*
¹Dipartimento di Colture Arboree, Palermo, Italy, ²IBIMET-CNR. Istituto di Biometeorologia, Bologna, Italy, ³Servizio Informativo Agrometeorologico Siciliano, Assessorato Agricoltura e Foreste, Palermo, Italy.
- P T4-51 **Use of reject heat from biogas powerplants for greenhouse heating**
Pietzsch Markus & *Joachim Meyer*
 Department of Plant Sciences, Technical University of Munich, Germany
- P T4-52 **The contribution of arbuscular mycorrhizal fungi in tomato and melon seedlings production**
Ruta Claudia, *Rosaria Perrini* & *Irene Morone Fortunato*
 Department of Scienze delle Produzioni Vegetali, Bari, Italy
- P T4-53 **Characterisation of sainfoin tannins by degradation studies and MALDI-ToF MS**
*Galezowska Angelika**, *Marina Dobрева*, *Trevor Gibson*, *Wayne Hayes*, *Rainer Cramer* & *Irene Mueller-Harvey*
 Department of Agriculture, University of Reading, UK
- P T4-54 **Formation of tannins in sainfoin (*Onobrychis viciifolia*)**
*Castro Ana**, *Jana Thill*, *Heidi Halbwirth*, *Karin Schlangen* & *Karl Stich*
 Technische Universität Wien, Institut für Verfahrenstechnik, Umwelttechnik und Technische Biowissenschaften, Austria
- P T4-55 **Polyphenols and Other Natural Products in the Forage Legume Sainfoin (*Onobrychis viciifolia*)**
*Regos Ionela**, *Koraljka Paskaš* & *Dieter Treutter*
 Technical University of Munich, Institute of Fruit Science, Freising, Germany
- P T4-56 **Agronomic characterisation of European germplasm of sainfoin**
*Demdoum Samir**, *Ignacio Delgado*, *José Valderabano* & *Ferdinando Muñoz*
 Centro de Investigación y Tecnología Agroalimentaria de Aragón, Zaragoza, Spain
- P T4-57 **Methane production of different varieties of sainfoin (*Onobrychis viciifolia*) in dairy cows measured by in vitro technique**
*Domenis Mila**, *Wilbert Pellikaan*, *Steven Borgijink*, *Fabio Giallongo* & *Wouter Hendriks*
 Animal Nutrition Group, Wageningen Institute of Animal Science, Wageningen University, Wageningen, The Netherlands
- P T4-58 **Pre-Breeding and Development of Sainfoin (*Onobrychis viciifolia*)**
*Hayot Christine**, *Joan Doidy*, *Steve Bentley* & *Lydia Smith*
 National Institute of Agricultural Botany, Cambridge, UK
- P T4-59 **Flavonoid biosynthesis in sainfoin (*Onobrychis viciifolia*)**
*Thill Jana**, *Heidi Halbwirth*, *Karin Schlangen* & *Karl Stich*
 Technische Universität Wien, Institut für Verfahrenstechnik, Umwelttechnik und Technische Biowissenschaften, Vienna, Austria
- P T4-60 **Direct nozzle injection system for a real-time site-specific pesticide application**
Vondricka, J., *P. Schulze Lammers* & *L. Damerow**
 Institute of Agricultural Engineering, Bonn, Germany

P T4-61 **“Bio”system grapevine breeding in the Murfatlar vineyard – Romania**
Ranca Aurora
Research Station for Viticulture and Enology Murfatlar, Basarabi – Constanta, Romania

Posters Theme 5

- P T5-01 **Effect of cultivar on dry matter and sugar content in tomato fruits**
Bjelic Vukasin, Djordje Moravcevic & Damir Beatovic
University of Belgrad, Faculty of Agriculture, Serbia
- P T5-02 **Relationship between cropping system and compositional parameters of early sweet corn**
Orosz Ferenc^{1}, Éva Stefanovits Bányai², Antal Ferenczy³ & Katalin Slezák¹*
¹Department of Vegetable and Mushroom, ²Department of Applied Chemistry, ³Department of Mathematics and Informatics, Corvinus University of Budapest, Hungary
- P T5-03 **Effect of some agronomical factors on nitrates (V) content in early potato tubers**
Wadas Wanda & Romualda Jabłońska-Ceglarek*
University of Podlasie, Department of Vegetable Crops, Siedlce, Poland
- P T5-04 **Ferrous oxide saves the world**
Inden Haruhisa, Yoshihiro Tono, Akiko Hiromi & Hirohiko Sasamoto
Faculty of Agriculture, University of Miyazaki, Japan
- P T5-05 **The influence of the various conditioning treatments on the compositional parameters of rose wines**
Muntean Camelia, Felicia Stoica & C. Baduca
University of Craiova, Faculty of Horticulture, Department Enology, Romania
- P T5-06 **The influence of different type of maceration on flavor complex in Romanian flavors wines**
Stoice Felicia, Camelia Muntean, Daniela Cichi & Daniela Ciupeanu Călugăru
University of Craiova, Faculty of Horticulture, Department Enology, Romania
- P T5-07 **The changing of axin content in the hardwood cuttings during the storage and the rooting period by HPLC**
Sándor G., G. Végvári, & A. Hajagos
Department of Fruit Science, Corvinus University of Budapest, Budapest, Hungary
- P T5-08 **Effect of Nitrogen and Potassium Fertilization on Productivity and Fruit Quality of 'Crimson Seedless' Grapes**
Abd El-Razek E.^{1,2}, D. Treutter¹, M. M. S. Saleh², M. El-Shammaa², N. Abdel-Hamid³, M. Abou-Rawash³*
¹Fruit Science Unit and Tree Physiology, Technical University of Munich (TUM), Germany,
²Pomology Dept., Agricultural and Biological Division, National Research Center (NRC), Egypt,
³Horticulture Dept., Faculty of Agriculture, Ain Shams University, Egypt
- P T5-09 **Managing Quality in Finnish Ostrobothnian Horticultural Supply-chains**
Balas Johannes & Marja Naaranoja
University of Natural Resources and Applied Life Sciences, Vienna, Austria
- P T5-10 **Occurrence of viruses in asparagus (*Asparagus officinalis* L.) in North Germany**
Bandte M.^{1}, E. Grubits¹, C. Schmidt¹, D. Weber², F. Uwihs² & Carmen Buettner¹*
¹Humboldt-Universität zu Berlin, Institute of Horticultural Sciences, Department Phytomedicine, Berlin, Germany, ²Landwirtschaftskammer Hannover, Hannover, Germany
- P T5-11 **Influence from the leaf area on the vase life in cut roses**
Graf Wolfgang & Heiner Grüneberg
Humboldt-University Berlin, Institute for Horticultural Science, Berlin, Germany

- P T5-12 **The effect of iron chelates on yielding and nutritional state of greenhouse tomato grown in peat substrate**
Chohura Piotr^{1}, Eugeniusz Kolota¹, & Andrzej Komosa²*
¹Department of Horticulture Wrocław University of Environmental and Life Sciences, Wrocław, Poland, ²The August Cieskowski Agricultural University, Department of Horticultural Plant Nutrition, Poznań, Poland
- P T5-13 **Light transmissions (PAR-, UVA- and UVB-radiation) of different greenhouse glass-materials and their effects on plant-physiological and plant-morphological parameters**
Dannehl D. , U. Schmidt & T. Rocks*
 Humboldt-University of Berlin, Institute for Horticultural Science, Department for Horticultural Engineering, Germany
- P T5-14 **Effect of EMAP storage on the respiration, carbohydrate balance and quality of unrooted azalea cuttings.**
De Storme Nico¹, Peter Ragaert² & Marie-Christine Van Labeke^{1,3}
¹Department of Plant Production, University of Gent, Gent, Belgium, ²Department of Food Technology and Nutrition, University of Gent, Gent, Belgium, ³Research Centre for Ornamental Plants, Destelbergen, Belgium
- P T5-15 **The joint project "Molecular physiological analysis of adventitious root development in *Petunia*"**
Druege Uwe^{1}, Marcel Bucher², Silvio Gianinazzi³, Mohammad-Reza Hajirezaei⁴, Bettina Hause⁵ & Philipp Franken¹*
¹Institute of Vegetable and Ornamental Crops, Erfurt & Großbeeren, Germany, ²University of Cologne, Germany, ³National Institute for Agricultural Research, Dijon, France, ⁴Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany, ⁵Leibniz Institute of Plant Biochemistry, Halle, Germany
- P T5-16 **Biochemical and histological analysis of nitrogen-mediated root formation in *Petunia* cuttings**
Y. Klopotek^{1}, K.-Th. Haensch¹, M.-R. Hajirezaei², B. Hause³, S. Zerche¹ & U. Druege¹*
¹Institute of Vegetable & Ornamental Crops, Erfurt, Germany; ²Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany; ³Leibniz Institute of Plant Biochemistry, Halle, Germany
- P T5-17 **Biochemical and histological analysis of storage-mediated root formation in *Petunia* cuttings**
Klopotek Yvonne^{1}, Klaus-Thomas Haensch¹, Mohammad-Reza Hajirezaei², Bettina Hause³ & Uwe Druege¹*
¹Institute of Vegetable and Ornamental Crops, Erfurt & Großbeeren, Germany, ²Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany, ³Leibniz Institute of Plant Biochemistry, Halle, Germany
- P T5-18 **Fruit quality and aroma of tree ripe and detached, sun-exposed 'Annurca' apples**
Volpe G.¹, V. Farina^{1}, G. Avellone² & R. Lo Bianco¹*
¹Università degli Studi di Palermo - Dipartimento S.En.Fi.Mi.Zo - Sezione di Frutticoltura Mediterranea, Tropicale e Subtropicale., Italy, ²Department of Chemistry and Pharmaceutical Technologies, University of Palermo, Palermo, Italy
- P T5-19 **How to kill an asparagus plant?**
*Feller Carmen & Jan Graefe**
 Institute of Vegetable and Ornamental Crops, Großbeeren, Germany
- P T5-20 **Improving Fruit Quality of Sweet Cherry (*Prunus avium* L.) through Flower thinning: A two-year field study.**
Schoedl K. , A. Krajl, S. Hummelbrunner, P. Modl & A. Forneck*
 University of Natural Resources and Applied Life Sciences, Vienna, Austria

- P T5-21 **Quality Management for Vineyards through intra-vineyard and inter-plant monitoring of physiological plant indicators**
Becker M. & A. Forneck
 University of Natural Resources and Applied Life Sciences, Vienna, Austria
- P T5-22 **Sanitation of root vegetables**
Geyer Martin, Karin Hassenberg & Oliver Schlüter*
 Leibniz-Institut für Agrartechnik Potsdam-Bornim, Dept. of Horticultural Engineering, Potsdam, Germany
- P T5-23 **Multi-element (H, C, N, O) stable isotope characteristics of soft fruits and strawberries**
Camín Federica, Matteo Perini, Luana Bontempo & Lara Giongo*
 IASMA Research Center, San Michele all'Adige, Italy
- P T5-24 **Water status gradients in cut roses**
Graf W.^{1}, W. B. Herppich², S. Huyskens-Keil³ & H. Grüneberg¹*
^{1&3}Humboldt University Berlin, Institute for Horticultural Sciences, ¹Section Floriculture and ³Section Quality Dynamics/Postharvest Physiology, Berlin, Germany, ²Leibniz-Institute for Agricultural Engineering Potsdam-Bornim, Dept. of Horticultural Engineering, Potsdam, Germany
- P T5-25 **Chalara Black Root Rot: A serious Challenge to the Swiss carrot Production and Processing Industry**
Heller Werner E., Pamela Crespo, Andreas Kägi & Ernst Höhn
 Agroscope Changins-Wädenswil Research Station ACW, Wädenswil, Switzerland
- P T5-26 **Monitoring of cut roses for freshness during post harvest process by cavitation and transpiration studies**
Spinarova S.¹, L. Hendriks^{1} & F. Steinbacher²*
¹Section of Ornamental Crops, Geisenheim Research Center, Geisenheim, Germany, ²TU München, Wissenschaftszentrum Weihenstephan, Freising, Germany
- P T5-27 **Effects of saline irrigation water on growth, physiology and quality of *Mesembryanthemum crystallinum*, a rare vegetable crop**
Herppich Werner B, Susanne Huyskens-Keil & Monika Schreiner
 Leibniz-Institut für Agrartechnik Potsdam-Bornim e. V., Abt. Technik im Gartenbau, Germany
- P T5-28 **Impact of UV and ozone as physical elicitor on cell wall composition and mechanical properties of white asparagus (*Asparagus officinalis* L.) in postharvest**
Huyskens-Keil S.^{1} & W. B. Herppich²*
¹Humboldt University Berlin, Institute for Horticultural Sciences, Section Quality Dynamics/Postharvest Physiology, Berlin, Germany, ²Leibniz-Institute for Agricultural Engineering Potsdam-Bornim, Department of Horticultural Engineering, Potsdam, Germany,
- P T5-29 **Studies on Phyllody in *Parthenium hysterophorus* and detection of phytoplasmas within important crops cultivated in Ethiopia**
Janke J.^{1}, S. von Barga¹, C. Ulrichs¹, T. Taye², M. Bandte¹ & C. Büttner¹*
¹Humboldt-Universität zu Berlin, Institute of Horticultural Sciences, Berlin, Germany, ²Plant Protection Research Center, Ambo, Ethiopia
- P T5-30 **The effect of ethanol treatment on removal of astringency in stored persimmon fruit (*Diospyros kaki* L.)**
*Keutgen Anna J. *, Achmad Nizar & Elke Pawelzik*
 Quality of Plant Products, Department of Crop Sciences, University of Goettingen, Goettingen, Germany
- P T5-31 **The importance of shops' characteristics for fruit and vegetable buyers**
Kiss Oszkar Zsolt & Geza Szekely
 Corvinus University of Budapest, Hungary

- P T5-32 **Study of a tomato growth model for optimization of greenhouse microclimate in a tomato seedlings greenhouse**
*Peonakis C., N. Katsoulas, D. Petsani & C. Kittas**
 Univ. of Thessaly, Dept. of Agriculture Crop Production & Rural Environment, Magnesia, Greece
- P T5-33 **Environmental and productive zoning of apple-growing (Golden delicious cv) in western Piedmont district**
La Iacona Tiziana^{1}, Cristiana Peano¹, Federico Spanna², Ivan Neretti² & Mattia Sanna³*
¹Department of Arboriculture and Pomology. University of Torino, Grugliasco (TO) Italy,
²Regional Phytosanitary Service, Agrometeo Sector, Torino, Italy, ³Centre of Competence in the Agro-environmental Sector (AGROINNOVA), University of Torino, Grugliasco (To), Italy
- P T5-34 **Quality comparison in different storage times between Golden delicious apples coming from various pedo-climatic areas**
La Iacona Tiziana^{1}, Cristiana Peano¹ & Federico Spanna²*
¹Department of Arboriculture and Pomology. University of Torino, Grugliasco (TO) Italy,
²Regional Phytosanitary Service, Agrometeo Sector, Torino, Italy
- P T5-35 **Effect of hypoxia on yield and quality of leafy vegetables grown in floating system**
*Lenzi A., A. Baldi & R. Tesi**
 Department of Agronomy and Land Management, University of Florence, Italy
- P T5-36 **Freshbag® for Transport of Cut Flowers**
Neumaier Dieter, Rolf Roeber & Traud Winkelmann
 Res. Inst. for Horticulture, Weihenstephan Univ. of Applied Sciences, Freising, Germany
- P T5-37 **Sooty blotch fungi on German apples: new insights in phylogenetic diversity of species**
Oertel B.¹, T. Feldmann¹, J.C. Batzer², M. L. Gleason², J. Frank³ & H.-J. Schroers³
¹Institute of Crop Science and Resource Conservation (INRES), University of Bonn, Germany,
²Department of Plant Pathology, Iowa State University, Ames, IA, USA, ³Agricultural Institute of Slovenia, Ljubljana, Slovenia
- P T5-38 **A new method to separate the VIS/NIR-absorption of chlorophylls from fruit spectra of tomato, apple and grapes**
Pflanz Michael & Manuela Zude*
 Leibniz Institute for Agricultural Engineering Potsdam-Bornim e.V. (ATB), Potsdam, Germany
- P T5-39 **Effects of temperature and light level on primrose flowering**
Ruttensperger Ute¹ & Beate ter Hell²
¹Staatliche Lehr- und Versuchsanstalt für Gartenbau, Germany, ²LVG Ahlem der Landwirtschaftskammer Niedersachsen, Germany
- P T5-40 **Evaluation of Combined Use of Fog systems and CO2 enrichment in Greenhouses by using Phytomonitoring Data**
Schmidt Uwe & C. Huber*
 Humboldt-University of Berlin; Institute of Horticultural Science; Department for Horticultural Sciences, Germany
- P T5-41 **Effects of exogenous stress hormone abscisic acid on cut roses**
Steinbacher F. & B. Hauser*
 Technische Universität München –Wissenschaftszentrum Weihenstephan, Freising, Germany
- P T5-42 **Controlled atmosphere affects the fruit quality during storage of ‘Kensington Pride’ mangoes**
Sumual M. F.^{1}, Z. Singh¹ & S. C. Tan²*
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- P T5-43 **Apple fruit quality monitoring by means of light remission and laser-induced chlorophyll fluorescence under shelf life conditions**
*Tartachnyk Iryna, Jan Kuckenberg & Georg Noga**
Institute of Crop Science and Resource Conservation, University of Bonn, Bonn, Germany
- P T5-44 **Quality evaluation of ready to use fennel slices during storage**
Cefola M.,^{1} N. Calabrese²⁾, F. Baruzzi², A. Carito² & B. Pace²*
¹Dipartimento Prime, Università degli Studi di Foggia, Italy, ²ISPA, Istituto di Scienze delle Produzioni Alimentari, Bari, Italy
- P T5-45 **The role of arbuscular mycorrhizal fungi on nutrient uptake of Cape gooseberry (*Physalis peruviana* L.) under salt stress**
Miranda Diego¹, Gerhard Fischer¹ & Christian Ulrichs²
¹National University of Colombia, Agronomy Faculty, Bogotá, Colombia, ²Humboldt University Berlin, Institute of Horticultural Science, Urban Horticulture, Germany
- P T5-46 **Effect of variety and cultural practices on pit fragment formation of clingstone peaches during processing**
*Pantelidis G. & M. Vasilakakis**
Faculty of Agriculture, Aristotle University of Thessaloniki, Thessaloniki, Greece
- P T5-47 **Nitrogen nutrition determines quality of pelargonium stock plants and rooting of cuttings**
Zerche Siegfried, Roland Kadner & Uwe Druetze*
Institute of Vegetable & Ornamental Crops Großbeeren/Erfurt e.V., Germany
- P T5-48 **Investigation on ‘Clementine’ mandarin rind-spotting in maturity**
Assimakopoulou A.^{1}, Ch. Tsougrianis¹, K. Elena², C. Fasseas³, G. Karabourniotis³, E. Drolia¹ & D. Dimou⁴*
¹Ministry of Agriculture, District Laboratory of Agricultural Advisory Service and Fertilizer Analysis, Xylokastro, Greece, ²Benaki Phytopathological Institute, Kifissia, Greece, ³Agricultural University of Athens, Athens, Greece, ⁴Ministry of Agriculture, Direction of Agricultural Development, Argolida, Greece
- P T5-49 **The Malolactic Fermentation And The Sensitive Features of Red Wines Obtained In The Vineyards of Oltenia County Hills From Romania**
Băducă Cîmpeanu C.^{1}, M. Gheorghiuță², G. Beleniuc³, D. Boboc⁴ & J. E. Pardo Gonzalez⁵*
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- P T5-50 **N, P and K content in radish leaf and root**
Bjelic Vukasin, Djordje Moravcevic & Damir Beatovic
Faculty of Agriculture, Belgrade, Serbia
- P T5-51 **Improving fruit quality and microclimate under hailnets in an apple orchard**
Solomakhin A.^{1} & Michael M. Blanke²*
¹Michurinsk, Russia, ²INRES - University of Bonn, Germany
- P T5-52 **Time-resolved Reflectance Spectroscopy as a management tool in the fruit supply chain: an export trial with nectarines**
Eccher Zerbini P.¹, M. Vanoli¹, A. Rizzolo¹, S. Jacob¹, Torricelli A.², L. Spinelli² & Rob Schouten³
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Posters Theme 6

- P T6-01 **Effect of rootstock vigour and cultivation techniques on vegetative growth in olive (*Olea europaea* L.) genotypes characterized by different vigour**
Buffa R., G. Campisi, M. La Mantia, F. P. Marra & T. Caruso*
Dipartimento di Colture Arboree, Università di Palermo, Italy
- P T6-02 **Cultivar susceptibility assessment and breeding for resistance: possible ways to fight the sharka in peach**
Liverani A.², D. Giovannini^{2}, F. Brandi², M. Merli², L. Giunchedi¹, C. Poggi Pollini¹, L. Bianchi¹ & A.R. Babini¹*
¹Dipartimento di Scienze e Tecnologie Agroambientali, Bologna, Italy, ²C.R.A. - Unità di Ricerca per la Frutticoltura, Forlì, Italy
- P T6-03 **Screening of tomato root endophytic fungi for potential application in Biocontrol**
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- P T6-04 **Characterization of local fig genetic resources in Slovenia**
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- P T6-05 **Clonal variability for agronomic traits in local table olive variety ‘Meski’**
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- P T6-06 **Vegetative and reproductive traits evolution of olive varieties under irrigated conditions**
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- P T6-07 **Agronomic behaviour of olive varieties under irrigated conditions in Sfax region (Tunisia)**
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- P T6-08 **Sensory evaluation of medlar (*Mespilus germanica* L.) cultivars**
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- P T6-09 **Morphological divergency of garlic ecotypes in Serbia**
Bjelic Vukasin, Djordje Moravcevic & Damir Beatovic
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- P T6-10 **Utilization of the local genetic resources in breeding new valuable cultivars for *Malus* and *Pyrus* species**
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- P T6-11 **Micropropagation and ex situ conservation of pear germoplasm: the role of exogenous carbohydrates**
Caboni E., M. G. Tonelli & C. Damiano*
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- P T6-12 **GENE SAVE – An interregional project for protection of genetic resources and traditional knowledge in the Alpine region**
Dalla Via Josef¹, Andreas Kasal¹, Christian Partl², Manfred Putz³, Gottfried Moosmann² & Sanja Baric¹*
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- P T6-13 **Bioagronomic evaluation of local almond cultivars in Apulia region (southern Italy)**
De Giorgio Donato
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Delia G.; L. Farina, M. Buccheri, P. Rega & C. Damiano*
 CRA - Istituto Sperimentale per la Frutticoltura, Italy
- P T6-15 **Biodiversity of genetic resources of *Maloideae* (*Pomoideae*) and *Prunoideae* subfamilies in Latvia**
Drudze I. & U. Dekens*
 Pure Horticultural Research Center, Latvia
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Ewald Aloma, F. Hennig & Martina Seyring*
 Institut für Gemüse- und Zierpflanzenbau Großbeeren/Erfurt, Germany
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Faedi W.; G. Baruzzi, M. Bonoli & P. Turci*
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- P T6-18 **Fruit quality traits of six ancient apple Sicilian cultivars.**
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- P T6-19 **Grapevine goes “retro”: A Survey of LTR-Retrotransposons in the Grapevine Genome**
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- P T6-20 **Description of an ex situ *Vitis vinifera* cv. *sylvestris* Gmelin Germplasm Collection from the Upper Rhine Valley by means of Genotypes and Phenotypes**
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Granges André, Gilli Céline & Jean-Michel Gillioz*
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Halász Krisztián¹, András Geösel¹, Noémi Lukács¹, Zoltán Bratek² & Zoltán Illyés²
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Hartmann Walter
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- P T6-24 **Characterization of phenotypic diversity in offspring of *Malus sieversii* (Ledeb.) Roem.**
Höfer Monika
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Hrotko Karoly, Lajos Magyar & Marta Gyeviki
 Corvinus University of Budapest, Hungary
- P T6-26 **Evaluation of local olive varieties from Slovene Istria**
Bandelj Dunja¹, Milena Bučar-Miklavčič¹, Bojan Butinar¹, Irma Tomažič¹ & Jernej Jakše^{1,2}*
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Juhanoja Sirkka & Riina Lukkala*
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- P T6-28 **Characterisation of Gooseberry Genetic Resources in Latvia**
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- P T6-29 **Epidemiological investigations on *Cherry leaf roll virus***
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- P T6-30 **'GiSela' Cherry Rootstocks in Tests for Virus Tolerance**
Lankes Christa
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- P T6-31 **Are heirloom *Lactuca* varieties suitable for market gardening and commercialization?**
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- P T6-33 **Seeds pre-treatment effects on the germination potential of *Vaccinium corymbosum* L. and interspecific hybrid genotypes**
*Mérola Stella, Saviane Alessio & Lara Giongo**
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- P T6-34 **Recovery and characterisation of old cultivars and accessions of long storage tomatoes**
*Negro C., Accogli R., Tommasi L., De Bellis L. & A. Miceli**
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- P T6-35 **A survey of small fruit European germplasm**
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- P T6-36 **The use of molecular markers for germplasm management in an Italian olive collection**
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 C.R.A..Experimental Institute for olive growing, Italy
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Nikolić Dragan, Momčilo Milutinović & Vera Rakonjac
 Faculty of Agriculture, Belgrade, Serbia
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- P T6-39 **Research on phytoplasma persistence in pear and apricot trees under protected environment**
Pastore Maria¹, Milena Petriccione¹, Samanta Paltrinieri² M. Del Vagliol¹, Fabio Gervasi¹ & A. Bertaccini²*
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- P T6-40 **Soil Fungal Diversity and the Sustainability of the Viticultural Soils**
Popa Daniela & Valerian Hanescu*
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- P T6-41 **Molecular characterization of pear (*Pyrus communis* L.) using microsatellite markers**
Giovinazzi J., M. T. Dettori, E. Vendramin, S. Micali, I. Verde & R. Quarta*
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- P T6-42 **Evaluation of genetic diversity among and within local populations of common bean (*Phaseolus vulgaris* L.) from central Italy.**
*Micali S.*¹, E. Bramati², R. Quarta¹, I. Verde¹, E. Vendramin J. Giovinazzi¹, A. Canini² & M. T. Dettori¹*
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- P T6-44 **Evaluation of variability in Japanese wild azaleas and application of lime-tolerant genetic resources for breeding**
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Sottile Francesco, Franca Omodei & Giuseppe Barbera
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Șumălan R.^{1}, Carmen Dobrei¹, D. Camen¹, Adina Berbecea¹, Isidora Radulov¹, Renata Șumălan¹, Mariana Babău¹ & G. Moșoarcă²*
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- P T6-48 **Putative endogenous dsRNA-viruses in *Capsicum* species**
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- P T6-49 **Cereal landraces from the Alpine region of Italy and Austria as a potential source of genetic variability for the future**
Baric Sanja, Unterholzner Stefanie & Josef Dalla Via*
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- P T6-50 **Genetic relationships of wild and cultivated roses and their potential for breeding**
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- P T6-51 **Genetic variability of phytopathogenic *Fusarium proliferatum* associated with crown rot in *Asparagus officinalis***
*von Barga Susanne, Oliver Martinez Lopez, Ines Schadock, Anne-Mareen Eisold, Monika Goßmann & Carmen Büttner**
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- P T6-52 **Fruit quality of raspberry genotypes: a multidisciplinary approach**
Giongo Lara, Eugenio Aprea, Silvia Carlin, Luisa Palmieri, Alessio Saviane, Alberto Grassi & Flavia Gasperi*
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- P T6-53 **Morphological characterisation of selected old local apricot cultivars from Eastern Austria under organic farming conditions**
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- P T6-54 **Vegetative propagation of different *Cyclamen* species via adventitious shoot formation from seedling tissue**
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- P T6-55 **Fruit genetic resources rediscovery and management in Northern Italy natural areas: Capanne di Marcarolo Regional Park and Val Grande National Park**
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- P T6-56 **Repellency and Toxicity of Calneem oil to *Tribolium castaneum* (Herbst) (Coleoptera Tenebrionidae) in stored products**
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- P T6 57 **The plum psyllid *Cacopsylla pruni* as vector of the European stone fruit yellows phytoplasma (EFSY)**
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- P T6-58 **Characteristics of selected grapevine hybrids from the progeny of direct and reciprocal crossing between Smederevka and Red Traminer cultivars**
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- P T6-59 **Measurement of Holistic Quality Parameters of Pumpkins**
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- P T6-60 **Safenut: an European project for the valorization of autochthonous almond and hazelnut genetic resources**
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- P T6-61 **S-genotyping of Hungarian and Eastern European almond [*Prunus dulcis* (Mill.) D.A. Webb] cultivars**
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- P T6-62 **Testing protein and DNA-based methods to clarify the presence of S-ribonucleases in quince (*Cydonia oblonga* Mill.) cultivars**
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- P T6-63 **The Cost Effective Use of BSI PAS100 Composted Greenwaste as a Mulch and Soil Amendment Following Transplanting of Trees from Different Root Stock Types**
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