



# Postharvest Unlimited

ISHS International Conference

## Program

10-13 June 2014 • Cyprus

# Welcome

Dear colleagues,

It is our pleasure to welcome you in the V International Postharvest Unlimited Conference, held under the auspices of the International Society for Horticultural Science (ISHS). The Conference is a joint initiative of the Cyprus University of Technology, Department of Agricultural Sciences, Biotechnology & Food Science and the Mediterranean Agronomic Institute of Chania, Greece.

Towards the establishment of new links and collaborations among participants, the Conference aims to bring together researchers from diverse fields of study who share a common interest in postharvest science. The conference will provide the opportunity for scientists, professionals and students to present their latest findings and discuss their current work related with basic and applied aspects in postharvest issues. We hope the meeting will promote the exchange of ideas and international cooperation and collaboration among researchers.

The Conference is comprised of 17 plenary lectures, 68 oral presentations and 140 poster presentations that are expected to provide new knowledge and promote scientific dialogues during the conference. Exceptionally, this event is supported by the COST Actions FA1104 'Sustainable production of high-quality cherries for the European market' and FA1106 'An integrated systems approach to determine the developmental mechanisms controlling fleshy fruit quality in tomato and grapevine'.

We endeavour to offer a high-quality and interesting program with renowned keynote speakers, as well as an attractive social program during the conference.

**George Manganaris**

Convenor

**Panayiotis Kalaitzis**

Co-Convenor

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- **Kalaitzis Panos**, Mediterranean Agronomic Institute of Chania, Greece
- **Mattheis Jim**, USDA, Wenatchee, Washington State, USA
- **Nicolaï Bart**, Katholieke Universiteit Leuven, Belgium
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- **Fotopoulos Vassilis**, Cyprus University of Technology, Lemesos, Cyprus
- **Goulas Vlasios**, Cyprus University of Technology, Lemesos, Cyprus
- **Tonutti Pietro**, Sant' Anna School of Advances Studies, Pisa, Italy

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- **Crisosto Carlos**, University of California at Davis, USA
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- **Woolf Allan**, The New Zealand Institute for Plant & Food Research, New Zealand
- **Zude Manuela**, Leibniz Institute for Agricultural Engineering, Potsdam, Germany

## Monday, June 9, 2014 (Morpheus Ballroom)

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13:00-18:00 Attendee registration

18:30-19:30 Inaugural Lecture  
J.M. Labavitch  
Cell wall metabolism: The Yin and Yang of fruit postharvest biology

19:30-20:30 Welcome reception (Pre-Dinner drinks) - Aphrodite Hills Resort

## Scientific program

## Tuesday, June 10, 2014 (Morpheus Ballroom)

08:00-09:00	<b>Attendee registration</b>
09:00- 10:30	<b>Welcome-Opening Ceremony &amp; Plenary Lectures</b> Moderators: G. Costa, A. Lichter
09:00-09:30	<b>Welcome Ceremony &amp; Opening remarks</b>
09:30-10:00	<b>B. Nicolai</b> Tales from Tomographic Oceans:water transport in fruit and vegetables revisited (PLE-01)
10:00-10:30	<b>I. Ferguson</b> Minor crop-major problems and how they inform postharvest understanding (PLE-02)
10:30-11:00	<b>Morning Tea/Coffee break</b>
11:00-12:30	<b>Plenary Lectures</b> Moderators: M. Hertog, D. Almeida
11:00-11:30	<b>M. Bouzayen</b> Multi-hormonal control of transcriptional regulation associated with fruit development and ripening (PLE-03)
11:30-12:00	<b>C. Crisosto</b> Emerging postharvest technologies (PLE-04)
12:00-12:30	<b>P. Tonutti</b> The technical evolution of CA storage protocols and the advancements in elucidating the responses to low oxygen conditions (PLE-05)
12:30-14:30	<b>Lunch</b>
14:30-16:00	<b>Poster session I (PP 1- 68, Morpheas Ballroom 4)</b> Tea/Coffee break
16:00-17:45	<b>Session I: Understanding stress conditions and their implication in the incidence of physiological disorders (I)</b> Moderators: C. Bonghi, R. Schouten
16:00-16:15	K. Buts , D. Hatoum, S.Carpentier, <b>M. Hertog</b> , B.M. Nicolai Browning in apple: A proteomics approach (OP-01)
16:15-16:30	<b>A. Granell</b> Fruits coping with stressful postharvest conditions: antioxidants not only for health (OP-02)
16:30-16:45	<b>D.P.F. Almeida</b> , R. Carvalho, S. Carvalho, E. Dupille Mitigation of superficial scald and internal browning disorders during refrigerated storage of 'Rocha' pear (OP-03)

16:45-17:00	A.Tadiello, V.Ziosi, A.S. Negri, F. Spinelli, N. Busatto, L. Espen, E. Vendramin, I.Verde, G. Costa, <b>L. Trainotti</b> Auxin-ethylene relationship in peach ripening and abnormalities in a stony hard genotype (OP-04)
17:00-17:15	<b>E.J. Mitcham</b> , S.T. de Frietas, J.P. Silveira, A. Miqueloto, S. Escibano Calcium deficiency disorders in fruit (OP-05)
17:15-17:30	<b>E.M. Crouch</b> , M. Jooste, H. Bergman, I.J. Crouch, T.J. Majoni Post-harvest factors influencing flesh browning in South African 'Cripps' Pink' apples ( <i>Malus domestica</i> Borkh.) (OP-06)
17:30-17:45	S. Rosenwasser, N. Sela, R. Fluhr, <b>H. Friedman</b> ROSMETER: A bioinformatic tool to evaluate oxidative stress in postharvest (OP-07)
18:00-20:00	<b>Session II: Postharvest physiology</b> Moderators: L. Trainotti, A. Zanella
18:00-18:15	<b>R. Schouten</b> , B. Farneti, L.M.M. Tijsskens, E. Woltering Modelling of chlorophyll breakdown and lycopene biosynthesis during ripening in tomato (OP-08)
18:15-18:30	A. Jajo, Md. A. Rahim, S. Serra, S. Musacchi , L. Trainotti, <b>C. Bonghi</b> Effect of cool storage duration on ripening initiation of Angelys® pear fruit (OP-09)
18:30-18:45	<b>N.T. Nham</b> , S.T. de Freitas, A.J. Macnish, K.M. Carr, T. Kietikul, S. Rust, C.Z. Jiang, E.J. Mitcham Transcriptome analysis to understand European pear ( <i>Pyrus communis</i> cv. Bartlett) ripening development and identify biomarker candidates to detect fruit ripening capacity (OP-10)
18:45-19:00	<b>J. Joas</b> , F. Lopez-Lauri, R. Rosalie, C. Deytieux-Belleau, M. Léchaudel Exploiting the responses to abiotic constraints towards a better understanding of fruit physiology, ripening and quality (OP-11)
19:00-19:15	<b>C.F. Forney</b> , G.S. Bezanson, T.C. Ells, L. Fan, D.I. LeBlanc Impact of heat sanitation of fresh whole cantaloupe on fruit quality and volatile metabolism (OP-12)
19:15-19:30	<b>M. Geyer</b> , G. Rux, S. Saengerlaub, A. Pant , M. Linke, P. Mahajan Packaging of mushrooms in a humidity regulating plastic punnet for preventing water condensation (OP-13)
19:30-19:45	<b>M.T. Charles</b> , D. Rolland, D. Roussel, M.J. Merisier, E.-S.Yaganza, D. Charlebois, J. Arul Assessment of UV-C hormesis induced changes in sugar and organic acid profiles of tomato fruit (OP-14)
19:45-20:00	<b>O.J. Caleb</b> , W.V. Aindongo, L. Mokwena, U.L. Opara Effects of pre-treatment and modified atmosphere packaging on quality attributes and change in volatile composition of pomegranate arils (cv. Bhagwa) (OP-15)

## Tuesday, June 10, 2014 (Adonis)

12:30-14:30	Lunch
14:30-16:00	Poster session I (PP 1- 68, Morpheas Ballroom 4) Afternoon Tea/Coffee break
16:00-17:30	Session III: Postharvest treatments to extend shelf life of horticultural commodities Moderators: C. Benedetti, N. Tzortzakis
16:00-16:15	<b>F. Guillén</b> , P.J. Zapata, D. Martínez-Romero, S. Castillo, H.M. Díaz-Mula, J.M. Valverde, D. Valero, M. Serrano Postharvest treatments with oxalic on quality of the early-season cultivar 'Early Lory' (OP-16)
16:15-16:30	<b>M. Glowacz, R. Colgan, D. Rees</b> Ozone can extend the shelf-life and improve the quality of fresh produce (OP-17)
16:30-16:45	<b>T. de Beer</b> , E.M. Crouch Efficacy of novel in-bag 1-MCP system versus traditional application for maintaining broccoli ( <i>Brassica oleracea</i> cv. Parthenon) quality during mixed load marketing (OP-18)
16:45-17:00	<b>M.G. Lobo</b> , R. Cabrera, S. Perera Guatemalan moth ( <i>Tecia solanivora</i> ): a serious problem during potatoes cultivation and storage (OP-19)
17:00-17:15	<b>S. Chaiwong</b> , C.F.H. Bishop Use of insulated bag from supermarket to maintain 'Elsanta' strawberry temperature (OP-20)
17:15-17:30	<b>N.Admane</b> , V. Verrastro, G. Altieri, F. Genovese, L. Tarricone, A. Ippolito, G.C. Di Renzo Effect of postharvest pretreatments and MAP on organic late-season table grapes Scarlotta seedless* "Sugranineteen" assigned to medium and long term storage (OP-21)
18:00-20:00	Session IV: Textural, biochemical and physiological aspects of postharvest ripening Moderators: R. Ben Arie, I. Tsakiris
18:00-18:15	F. De Sanctis, J. Labatvich, J.A. Kennedy, C. Catelli, <b>F. Mencarelli</b> Metabolic and structural effects of dehydration and ozone postharvest treatments on wine grapes (OP-22)
18:15-18:30	<b>D. Kenigsbuch</b> , D. Chalupowicz, D. Maurer, A. Sade, Y. Ivanova-Shachar and L. Ben-Shitrit Storability characterization of a wild rocket ( <i>Diplotaxis tenuifolia</i> ) cultivar «Rock-Ad» with late flowering and delay in postharvest senescence (OP-23)
18:30-18:45	M. Anastasiadi, P.M. Mwangi, S. Redfern, M. Berry, <b>L.A. Terry</b> Postharvest biochemical changes in gooseberry fruit ( <i>Ribes uva crispa</i> ) during storage (OP-24)

18:45-19:00	T. Peredo, I. Balic, J. Delgado, T. Ejsmentewicz, P. Olmedo, R. Barria, C. Silva-Sanzana, B. Defilippi, H. Prieto, <b>R. Campos-Vargas</b> Effect of calcium applications on berry firmness during <i>in vitro</i> growth of table grapes cv. Thompson Seedless (OP-25)
19:00-19:15	A. Koziol, J. Cybulska, B. Kruk, D. Sysa, M. Lekka, <b>A. Zdunek</b> Young's modulus of cell walls in pears during pre- and postharvest maturation (OP-26)
19:15-19:30	<b>J. Mierczyńska</b> , J. Cybulska, B. Kruk, A. Zdunek Enzymatic degradation and changes in rheological properties of pectins in <i>Daucus carota</i> L. cv. 'Nerac' cell walls during postharvest storage (OP-27)
19:30-19:45	<b>T. Kabakeris</b> , A. Ghadiri Khozroughi, A. Keiser, S. Huyskens-Keil, M. Geyer The role of chlorophyll derivatives in postharvest quality determination of broccoli (OP-28)
19:45-20:00	B.A.J.G. Jacobs, <b>B.E. Verlinden</b> , A., Decombel, P. Bleyaert, J. Van Lommel, I. Vandevelde, W. Saeys, B.M. Nicolai Predicting stored period and shelf life potential of lamb's lettuce using Vis/NIR reflectance spectroscopy (OP-29)

## Wednesday, June 11, 2014 (Morpheas Ballroom)

09:00-10:30	<b>Session V: Effects of 1-MCP on postharvest quality</b> Moderators: G. Nanos, G. Colelli
09:00-09:15	E.Zonin, M. Zermiani, M. Begheldo, A. Nonis, A. Vezaro, L. Fadanelli, L. Quintieri, <b>B. Rupert</b> Regulation of the apple ( <i>Malus domestica</i> ) ROP-GAP rheostatic molecular machinery in response to postharvest storage and ethylene inhibition by 1-MCP treatment (OP-30)
09:15-09:30	A. Folchi, <b>P. Bertolini</b> , D. Mazzoni Preventing ripening blockage in 1-MCP treated 'Abate Fetel' pears by temperature management (OP-31)
09:30-09:45	<b>E.A. Bekele</b> , W.F. Beshir, M. Hertog, B.M. Nicolai, A. Geeraerd Metabolomics analysis of the effect of MCP and CA during ripening and storage in apples (OP-32)
09:45-10:00	<b>I.N. Tsakiris</b> 1-MCP (Smart Fresh™) application protocol to Granny Smith: The experience in Greece (OP-33)
10:00-10:15	<b>B. Farneti</b> , I. Khomenko, V. Ting, F. Spinelli, F. Biasoli, G. Costa, F. Costa Effect of 1-MCP on apple volatile compound production assessed by PTR-Tof-MS (OP-34)
10:15-10:30	<b>D. Gamrasni</b> , H. Gadban, A. Tsvilling, T. Wolff, Y. Stern, T. Goldberg, O. Neria, R. Ben-Arie 1-MCP improves the quality of stored 'Wonderful' pomegranates (OP-35)
10:30-11:00	<b>Morning Tea/Coffee break</b>
11:00-13:00	<b>Workshop FA1106 'An integrated systems approach to determine the developmental mechanisms controlling fleshy fruit quality in tomato and grapevine'</b> Moderators: M. Bouzayen, A. Granell
11:00-11:30	<b>G. Seymour</b> The genetic and epigenetic basis of fruit ripening-Science discovery into commercial practice (PLE-06)
11:30-12:00	<b>A. Bovy</b> Elucidating the genetic basis of fruit quality in tomato (PLE-07)
12:00-12:30	<b>S. Delrot</b> Pre- and post-harvest ripening of grape berry: the missing links (PLE-08)
12:30-13:00	<b>M. Pezzotti</b> A systems biology approach to interpret the process of "appassimento", a controlled postharvest dehydration of grape berries (PLE-09)
13:00-15:00	<b>Lunch</b>
15:00-16:30	<b>Poster session II (PP 69-140, Morpheas Ballroom 4)</b> <b>Afternoon Tea/Coffee Break</b>

16:30-18:45	<b>Workshop FA1104 'Sustainable production of high-quality cherries for the European market'</b> Moderators: G. Manganaris, A. Molassiotis
16:30-17:00	<b>E.J. Mitcham</b> Assuring the quality of cherries after harvest with special reference to sensorial attributes (PLE-10)
17:00-17:30	<b>P. Toivonen</b> Integrated analysis for improving export of sweet cherries and how a small industry can compete by focusing on premium quality (PLE-11)
17:30-18:00	<b>A. Vicente</b> Influence of initial differences in pectin branching and role of "well known" wall loosening proteins on fruit texture (PLE-12)
18:00-18:30	<b>D. Valero</b> Recent developments to maintain overall sweet cherry quality during postharvest storage (PLE-13)
18:30-18:45	<b>L. Montanari</b> New technologies to improve efficiency on cherry sorting and packing lines (OP-36)
20:00-00:00	<b>Gala dinner (Olive Courtyard, Aphrodite Hills Resort)</b>

## Wednesday, June 11, 2014 (Adonis)

09:00-10:30	<b>Session VI: Understanding storage stress and its implication in the incidence of physiological disorders (II)</b> Moderators: M.T. Charles, R. Vidrih
09:00-09:15	<b>D.J. Bishop</b> A high sensitivity oxygen sensor for use with Dynamic Controlled Atmospheres (OP-37)
09:15-09:30	<b>M. Mirzaee</b> , D. Rees, M. Tully, R.J. Colgan Diagnosing bitter pit in apple during storage by chlorophyll fluorescence as a non-destructive tool (OP-38)
09:30-09:45	<b>W. Imsabai</b> , K. Saiyawan, J. Siriphanich Ethylene pretreatment induced ripening-associated gene(s) expression and alleviates chilling injury of bananas during cold storage (OP-39)
09:45-10:00	<b>J. Lado</b> , M.J. Rodrigo, P. Cronje, L. Zacarías Resistance to chilling injury in red, lycopene-accumulating, tissue of cold-stored grapefruits (OP-40)
10:00-10:15	<b>K. Luengwilai</b> , P. Pitukwong, J. Siriphanich Factors affecting susceptibility to chilling injury of commercial 'Queen' pineapple cultivars in Thailand (OP-41)
10:15-10:30	S.Y. Shin, <b>M.H. Park</b> , J.W. Choi, Y.P. Hong, J.G. Kim Gene network underlying response of pepper ( <i>Capsicum annuum</i> ) to chilling stress (OP-42)
10:30-11:00	<b>Morning Tea/Coffee break</b>

## Thursday, June 12, 2014 (Morpheas Ballroom)

09:00-10:00	<b>Session VII: Keynote talks on Supply Chain Management</b> Moderators: R. Porat, A. Van Schaik
09:00-09:30	<b>S. Lurie</b> The use of nondestructive measurements and molecular techniques to determine commodity quality and supply chain management (PLE-14)
09:30-10:00	<b>L. Terry</b> Reducing waste: synergies between biology and supply chain management (PLE-15)
10:30-19:30	<b>Excursion (Paphos &amp; Lemesos District)</b>



## Friday, June 13, 2014 (Morpheus Ballroom)

### 09:00-11:00 Session VIII: Current trends in postharvest physiology and technology

Moderators: J. Fellman, J. Golding

- 09:00-09:15 **G. Costa**, S. Vidoni, L. Rocchi  
Use on non-destructive devices for an appropriate management of fruit in post-harvest (OP-43)
- 09:15-09:30 **R. Porat**  
Implementation of sensory analysis studies for postharvest research (OP-44)
- 09:30-09:45 **E.J. Woltering**, I.M. Witkowska, R. Schouten, J. Harbinson  
Light levels below the light compensation point stimulate an alternative sugar generation mechanism and prolong the shelf life of fresh-cut butterhead lettuce (OP-45)
- 09:45-10:00 **A.C.R Van Schaik**, J.A. Verschoor, E. Otma, F.G Van de Geijn  
Product response of apples (cv. Elstar) on a new storage system: Dynamic Control of Respiration (OP-46)
- 10:00-10:15 **D. Kitemann**, D.A. Neuwald, R. McCormick, J. Streif  
Potential energy savings using modern storage technologies in combination with increased storage temperatures (OP-47)
- 10:15-10:30 **A. Lichter**, E. Raban, T. Kaplunov, Y. Zutahy, A. Daus, D. Beno-Mualem, A. Bahar, H. Weksler, S. Lurie  
Image analysis and auto-fluorescence as tools to evaluate the quality of table grapes before harvest and after storage (OP-48)
- 10:30-10:45 **N. Tzortzakis**  
Gaseous ozone-enrichment for the preservation of fresh produce (OP-49)
- 10:45-11:00 G. Gwanpua, V. Dakwa, **B.E. Verlinden**, S. Christiaens, M. Hendrickx, B.M. Nicolai, P. Verboven, A. Geeraerd  
Relationship between texture analysis and texture attributes during postharvest softening of 'Jonagold' and 'Kanzi' apples (OP-50)

### 11:00-11:30 Morning Tea/Coffee break

### 11:30-13:00 Session IX: Effects of pre- and postharvest strategies on nutritional and functional components in horticultural commodities

Moderators: I. Mignani, C. Forney

- 11:30-12:00 **M.I. Gil**  
Pre and postharvest strategies to enhance bioactive constituents of fruit and vegetables (PLE-16)
- 12:00-12:15 **F.A. Tomás-Barberán**  
Polyphenols in harvested fruits and vegetables. Estimation of the content of bioactives and evaluation of health effects. The case of pomegranate (OP-51)

- 12:15-12:30 **O.A. Fawole**, L. Chan, U.L. Opara  
Bioavailability of total phenolic content and antioxidant capacity of pomegranate fruit juice and marc after in vitro digestion (OP-52)

- 12:30-12:45 **M. Buccheri**, D. Croce, M. Grassi, G. Bianchi, F. Lovati, M. Vanoli, A. Rizzolo  
Postharvest physiology and nutritional quality of 'Tarocco' orange fruit [*Citrus sinensis* (L.) Osbeck] (OP-53)

- 12:45-13:00 **N. Ntagkas**, E.J. Woltering, C. Labrie, C.C.S. Nicole, L.F.M. Marcelis  
Light enhances L-ascorbate in fruits and leaves: a well-orchestrated mechanism (OP-54)

### 13:00-14:30 Lunch

### 14:30-16:00 Official Closure/ ISHS business meeting to determine the next Symposium Venue

### 16:00-16:30 Departure for the post-symposium tour (Nicosia) or Larnaca

## Friday, June 13, 2014 (Adonis)

09:00-11:00	<b>Session X: Postharvest pathology</b> <b>Moderators:</b> D. Prusky, J. Adaskaveg
09:00-09:15	<b>N. Alkan</b> , G. Friedlander, D. Ment, D. Prusky, R. Fluhr Simultaneous transcriptome analysis of <i>Colletotrichum gloeosporioides</i> and tomato fruits response at different stages of pathogenicity reveal postharvest fruit-fungal arms and defense strategies (OP-55)
09:15-09:30	<b>J.E. Adaskaveg</b> , H. Förster New postharvest decay control treatments that are exempt from residue tolerances in the United States (OP-56)
09:30-09:45	<b>D. Prusky</b> , S. Barad, D. Ment Modulation of pathogenicity by pH regulation in postharvest pathogen interactions: a global analysis for postharvest pathogens (OP-57)
09:45-10:00	<b>H. Förster</b> , W. Hao, J. E. Adaskaveg Evaluation of postharvest heat treatments to mitigate export quarantines of California citrus fruit due to <i>Phytophthora brown rot</i> (OP-58)
10:00-10:15	A. Hinojosa, I. Gatica, A. Bustamante, D. Cárdenas, <b>V. Escalona</b> Effect of the combined treatment of UV-C light and modified atmosphere packaging on microbiological and sensory quality of minimally processed watercress (OP-59)
10:15-10:30	<b>J. Børve</b> , A. Stensvand Factors affecting postharvest fungal fruit decay in sweet cherry in a cool, wet climate (OP-60)
10:30-10:45	<b>J.M. Zhao</b> , J.E. Bronlund, A.R. East Effect of cooling rates on kiwifruit firmness and rot incidence in subsequent storage (OP-61)
10:45-11:00	<b>A.T. Aborisade</b> Heat treatment against the green mould on sweet orange ( <i>Citrus sinensis</i> Osbeck) fruits at tropical ambient storage (OP-62)
11:00-11:30	<b>Morning Tea/Coffee break</b>
11:30-13:00	<b>Session XI: Quality monitoring and postharvest treatments to extend shelf/vase life of horticultural commodities</b> <b>Moderators:</b> M. Serek, M. Pérez-Gago
11:30-11:45	T.M. Mutui, H. Mibus, <b>M. Serek</b> Cytokinins inhibit leaf senescence in <i>Pelargonium</i> cuttings (OP-63)
11:45-12:00	<b>G.F. Tsanakas</b> , M.E. Manioudaki, A.S. Economou, S. Kintzios, P. Kalaitzis Transcriptomic study of cut flower senescence in <i>Gardenia jasminoides</i> using Illumina Hi-Seq technology (OP-64)

12:00-12:15	<b>M.M. Jowkar</b> Application of nano silver as 'Cherry Brandy' rose vase solution preservative improves free radical scavengers' activity and reduces oxidative damage biomarkers (OP-65)
12:15-12:30	<b>E. Sanchís</b> , S. González, C. Ghidelli, C. Sheth, M. Mateos, L.I. Palou, <b>M.B. Pérez-Gago</b> Browning inhibition and microbial control in fresh-cut persimmon ( <i>Diospyros kaki</i> Thunb. cv. Rojo Brillante) by apple pectin-based edible coatings (OP-66)
12:30-12:45	A. Rizzolo, M. Buccheri, <b>G. Bianchi</b> , M. Grassi, M. Vanoli Quality of 'Conference' pears as affected by initial low oxygen stress, dynamically controlled atmosphere and 1-MCP treatment (OP-67)
12:45-13:00	I. Ben-Tzur, H. Sharshevsky, S. Mangut-Leiba, <b>A. Dagar</b> Xsense® technology: Innovative real time system approach in monitoring quality, freshness and food safety in perishables supply chain (OP-68)
13:00-14:30	<b>Lunch</b>
16:00-16:30	<b>Departure for the post-symposium tour (Nicosia) or Larnaca</b>

## Poster Presentations (PP)

### Code Author(s) - Title

- PP-1 **C.V.T. do Amarante, C.A. Steffens, S.T. de Freitas, A.Miqueloto, A. dos Santos, V. Denardi**  
Methods of fruit tissue sampling to quantify calcium and magnesium contents to segregate apples for bitter pit incidence
- PP-2 **R. Leisso, I. Hanrahan, D. Buchanan, J. Lee, D. Rudell, J. Mattheis, C.Watkins**  
A metabolic profile for 'Honeycrisp' apple soggy breakdown, a chilling induced physiological disorder
- PP-3 **B. Farneti, N. Busatto, I. Khomenko, F. Spinelli, F. Biasioli, G. Costa, F. Costa**  
Detection of volatile compounds involved in the development of apple superficial scald by PTR-Tof-MS
- PP-4 **J.J. Ornelas-Paz, E.M. Yahia, E. Ochoa-Reyes, J.D. Pérez-Martínez, V. Ibarra-Junquera, P. Escalante-Minakata, S. Ruiz-Cruz**  
Physicochemical changes of 'Golden Delicious' apples and their relationship with softening during on-tree development and ripening
- PP-5 **A. Zanella, S. Stuerz, A. Panarese, O. Rossi**  
The potential of alternative methods for determining the optimum harvest date of apple fruit
- PP-6 **M. Vanoli, A. Rizzolo, A. Zanella, M. Grassi, A. Torricelli, L. Spinelli**  
Characterizing apple texture during storage through mechanical, sensory and optical properties
- PP-7 **K. Juhneviča-Radenkova, L. Skudra, M. Skrīvele, V. Radenkovs, D. Segliņa**  
Apple cell size effect on fruit quality
- PP-8 **F. Gasser, C. Good, A. Naef**  
Hot water treatment of selected organic apple and pear cultivars
- PP-9 **A. Matejicek, I. Pistekova, F. Paprstein, J.Matejickova**  
Evaluation of fruit quality of tested apple cultivars stored in different ULO atmospheres
- PP-10 **D.A. Neuwald, D. Kitemann, J. Streif, M. Spuhler, G. Rux, M. Linke, M.Geyer**  
Effects of an optimized air flow in apple storage rooms
- PP-11 **D. Kitemann, D.A. Neuwald, J. Streif**  
Internal browning in 'Kanzi'® apples – Reasons and possibilities to reduce the disorder
- PP-12 **M.Zermiani, M.Begheldo, E. Zonin, M. Mercadini, P.Tonutti, B.Ruperti**  
Molecular and biochemical responses of apple fruit to initial low oxygen stress (ILOS) regimes
- PP-13 **C.A.Torres, L.Leon, F. Sazo, O. Hernandez**  
Flesh browning assessment in Cripp's Pink apples using Vis-NIR spectroscopy
- PP-14 **O. Hernandez, C.A. Torres**  
Superficial scald assessment on Granny Smith apples stored under dynamic controlled atmosphere in commercial operations in Chile
- PP-15 **P. Maletsika, I. Papoulia, G.D. Nanos, M. Vasilakakis**  
Postharvest application of O<sub>3</sub> and 1-MCP effects on 'Red Chief' apple quality during prolonged air cold storage

- PP-16 **A. Brackmann, A. Weber, V. Both**  
CO<sub>2</sub> partial pressure for respiratory quotient and HarvestWatch™ dynamic controlled atmosphere for ‘Galaxy’ apples storage
- PP-17 **W. Imsabai, W. Somsuan, S. Ketsa**  
Effect of low temperature on physiological and biochemical changes of Java apple ‘Thabthimchan’
- PP-18 **T. Georgoudaki, G.D. Nanos**  
Quality of fresh-cut apples treated at harvest with 1-MCP
- PP-19 **L. Khurnpoon, W. Promtab**  
The effect of ascorbic acid on browning symptom in whole and fresh-cut sapodilla (*Achras sapota* Linn.) fruit during storage
- PP-20 **M. Cavaiuolo, G. Cocetta, R. Bulgari, A. Spinardi, A. Ferrante**  
Physiological and biochemical markers associated with quality losses of fresh-cut melon fruits
- PP-21 **F. Charles, V. Vidal, C. Domisse, M. El Maâtaoui, H. Sallanon**  
Effect of the climate and seasons on tissue browning of fresh-cut chicory
- PP-22 **M.L.B. Bachelli, R.D.A. Amaral, J.M. Suzuki, J.W. Britto, B.C. Benedetti**  
Alternative sanitization methods for minimally processed ‘Formosa’ papaya
- PP-23 **A. Allegra, G. Sortino, P. Inglese**  
Passive atmosphere on quality of minimal processing Cactus Pear (*Opuntia ficus-indica* (L.) Mill.)
- PP-24 **T. de Beer, E.M. Crouch**  
Limiting farm gate revenue loss of tomatoes by limiting colour change during surplus production with 1-MCP
- PP-25 **K.Z. Mazur, M. Gajewski, M. Niedzińska, J.L. Przybył, I. Szyborska-Sandhu**  
The 1-MCP treatment as solution in storage of ‘cherry’ tomato fruits
- PP-26 **G.D. Nanos, A. Mpezou, T. Georgoudaki**  
Effects of 1-MCP and storage temperature on quince fruit quality
- PP-27 **D.A. Neuwald, J. Streif, D. Kitemann**  
Effects of 1-MCP treatment in combination with ethylene (ethylene imprinting) on storage behaviour and fruit ripening of ‘Conference’ pears
- PP-28 **J. Goliáš, J. Létal, J. Kožíšková**  
Changes in volatiles during cold storage and subsequent shelf-life of ‘Conference’ pears treated with 1-MCP
- PP-29 **D. Christen, S. Gabioud Rebeaud, M. Lucas, P.-Y. Cotter, F. Gasser**  
Influence of fruit maturity, 1-MCP treatment and storage temperature on ethylene production and quality of ‘Goldrich’ and ‘Orangered’ apricots
- PP-30 **D.P.F. Almeida, R. Carvalho, E. Dupille**  
Efficacy of 1-methylcyclopropene (SmartFresh™) on quality retention of ‘Rocha’ pear during long-term storage under controlled atmosphere
- PP-31 **I. Pistekova, A. Matejicek, F. Paprstein, J. Matejickova**  
Evaluation of plums stored in ULO with the use of SmartFresh technology
- PP-32 **I.S. Minas, G. Tanou, M. Belghazi, A. Krokida, M. Vasilakakis, K.K. Papadopoulou, A.N. Molassiotis**  
The physiological and molecular impact of ozone and 1-methylcyclopropene on kiwifruit postharvest ripening
- PP-33 **G. Tanou, I.S. Minas, E. Karagiannis, M. Belghazi, D. Tsikou, K.K. Papadopoulou, A.N. Molassiotis**  
The interaction between nitric oxide with ozone regulate kiwifruit postharvest physiology
- PP-34 **J. Mierczyńska, J. Cybulska, B. Kruk, A. Zdunek**  
Influence of modified cell wall polysaccharides on rheological properties of food
- PP-35 **A. Zdunek, J. Cybulska, A. Kozioł, P.M. Pieczywek**  
Structure of pectins, hemicellulose and cellulose in cell walls of two pear cultivars
- PP-36 **E. Poverenov, H. Arnon, S. Danino, R. Porat, V. Rodov**  
Layer-by-layer edible coatings of fresh agricultural products anticipated and unexpected effects
- PP-37 **R. Sothornvit, P. Klangmuang**  
Active edible coating to maintain the quality of fresh mango
- PP-38 **G. Farrelly, A.A. Tsiami**  
Effects of edible hydrocolloid coatings on the quality and shelf life of postharvest sweet cherry
- PP-39 **C. Rousos, A. Chrysargyris, A. Nikou, N. Tzortzakis**  
*Aloe vera* based edible coating maintain the quality of tomato fruits
- PP-40 **U.L. Opara, O.J. Caleb, O.A. Fawole**  
The next 50 years of postharvest technology
- PP-41 **U.L. Opara, O.A. Fawole, O.J. Caleb, R.R. Mphahlele, L. Mugode, M.R. Al-Ani, F.A. Al-Said, R. Al-Yahyai**  
Recent developments in postharvest technology of pomegranates – from harvest readiness to consumer health
- PP-42 **K. Banda, O.J. Caleb, U.L. Opara**  
Effect of storage conditions and pre-treatment on the respiration rate of pomegranate arils (cv. Wonderful)
- PP-43 **E. Biton, O. Feygenberg, H. Friedman, D. Prusky**  
The mechanism of differential susceptibility to *Alternaria alternata* of stem- and bottom-end tissues of persimmon fruit and their control by growth regulators
- PP-44 **M. Grzegorzewska, B. Kowalska**  
The effect of nano-silver and nano-copper on pathogens of stored vegetable
- PP-45 **M. Njavro, T. Miličević, J. Kaliterna, B. Duralija, J. Gugić, A. Vokurka**  
Postharvest fungal diseases of early season fruits as production risks
- PP-46 **I. Farhat, A. Khlij, F. Dabbech, M. Cherif**  
Evaluation of postharvest treatments with salts to control green and blue molds on Valencia late oranges

- PP-47 **I. Baltzakis, A. Stavropoulou, A. Kaselaki, N. Magan, K. Loulakakis**  
Investigating the action of essential oils from *Salvia triloba* and *Origanum dictamnus* on the growth of post-harvest diseases of cucumber fruits
- PP-48 **A. Stavropoulou, A. Kaselaki, N. Magan, K. Loulakakis, N. Tzortzakis**  
Impact of *Origanum dictamnus* essential oil on the growth of *Botrytis cinerea* *in vitro* and in eggplant fruits
- PP-49 **E.J. Mitcham, V. Bikoba, W.V. Biasi**  
Use of Vapormate™ fumigation to control insects in harvested fruit
- PP-50 **M. Grzegorzewska, E. Badelek, K. Felczynski, M. Szczech, U. Smolinska**  
The effect of *Ttrichoderma* on durability of carrot and iceberg lettuce
- PP-51 **N. Rasiukevičiūtė, A. Valiuškaitė, N. Uselis, L. Buskienė, J. Viškelis, Ž. Lukšienė**  
Innovative technologies of non-thermal means to reduce mycological contamination of strawberry fruit
- PP-52 **A. Perrakis, M. Manioudaki, P. Kalaitzis**  
Suppression of a tomato prollyl 4 hydroxylase decreases fruit size and affects seed development
- PP-53 **F.G. Ceglie, L. Muhadri, F. Piazzolla, G.B. Martinez-Hernandez, M.L. Amodio, G. Colelli**  
Quality and postharvest performance of organically grown tomato (*Lycopersicon esculentum* L. cv. Marmande) under unheated tunnel in Mediterranean climate
- PP-54 **S. Escribano, E.J. Mitcham**  
Effects of modified pectin chemistry on tomato fruit susceptibility to the calcium deficiency disorder, blossom-end rot
- PP-55 **K.Z. Mazur, M. Gajewski, M. Niedzińska, J.L. Przybył, I. Szymborska-Sandhu**  
The effect of storage under controlled conditions on 'cherry' tomato fruits quality
- PP-56 **I.C. Karapanos, A.A. Alexopoulos, M. Chandra, K.A. Akoumianakis, H.C. Passam**  
The effect of maturity stage at harvest on the ripening and quality characteristics of cherry tomato fruits
- PP-57 **F. Lopez-Lauri, S. Junglee, R. Murshed, M. El Maataoui, H. Sallanon, L. Urban**  
Water deficit induces antioxidant defences in tomato fruit: Involvement of nitric oxide
- PP-58 **C. Rousos, A. Chrysargyris, N. Tzortzakis**  
Sage essential oil vapours enhance tomato fruit quality
- PP-59 **A. Stamatakis, G. Pitsikoulaki, N. Boretos, C. Kalaitzidis, A. Chrysargyris, N. Tzortzakis**  
Effect of ammonium:nitrogen ratio on tomato fruit quality
- PP-60 **J. Lado, M. J. Rodrigo, L. Zacarías**  
Transcriptional regulation of ethylene metabolism in 'Marsh' and 'Star Ruby' grapefruits under chilling conditions
- PP-61 **L. Fuentes, L. Monsalve, D. Travisany, A. I Ayala, J.P. Martínez, M. Valdenegro, A. Maass, B. Defilippi**  
Transcriptomic approach (RNA-Seq) associated with ethylene biosynthesis and softening process during development and ripening of raspberry fruit (*Rubus idaeus* cv Heritage)
- PP-62 **G. Cocetta, M. Cavaiuolo, A. Ferrante**  
Transcriptome analysis of transcription factors and glucosinolate metabolism in rocket (*Diplotaxis tenuifolia* L.)
- PP-63 **P. Šnurkovič**  
Evaluation of changes in antioxidant compounds of fruits and vegetables during ripening and storing using NIR spectroscopy
- PP-64 **J.B. Golding, S. Satyan, L.J. Spohr, A. Harris, B. Blades, A.J. Jessup, C. Banos, J. Davies**  
Effects of low dose gamma irradiation on highbush blueberry fruit quality and proximate and nutritional profiles
- PP-65 **J. Pumnuan, L. Khurnpoon, A. Insung**  
Changes in quality of orchid cut flower fumigated by clove and cinnamon essential oils
- PP-66 **J.-J. Shyr, S.-H. Yang, J.-Y. Hwuang**  
Vase life extension of Eustoma cut flowers (*Eustoma grandiflorum* Shinn) as affected by nano silver and sucrose pulsing
- PP-67 **T.D.C. Mendes, J.S. Santos, C.S. Souza, L.C. Costa, F.L. Finger**  
Responses of tannia (*Xanthosoma sagittifolium*) leaves to mechanical injury
- PP-68 **L.C. Costa, W.S. Ribeiro, T.D.C. Mendes, F.L. Finger**  
Influence of the vase solution on water uptake of *Gladiolus* sp.
- PP-69 **I. Soural, S. Wendelin, R. Eder, J. Balik**  
Analyses of compounds in skins, pulps and whole berries of thirty-three Austrian table grape varieties
- PP-70 **A. Muráriková, J. Neugebauerová, K. Kaffková, S. Raab**  
Evaluation of antioxidative activity of Salvia L. extracts
- PP-71 **L. Zacarías, J. Lado, E. Alós, A. Gurrea, R. Brocal, M.J. Rodrigo**  
Shading and quality of *Citrus* fruits: effect on carotenoid and ascorbic acid metabolism
- PP-72 **D. Feldmane, V. Radenkova, D. Seglina**  
Evaluation of chemical composition of sour cherry grown in Latvia
- PP-73 **S. Ruiz-Moyano, M.J. Serradilla, E. De Paiva, M.C. Villalobos, G. Gallardo, M.G. Córdoba**  
Effect of treatment with phenolic aqueous extracts obtained from soy flour and microperforated films on the fungal quality of 'Ambrunés' sweet cherries during postharvest storage
- PP-74 **J. Alonso, D. Tejerina**  
Potential use of Near Infrared Reflectance Spectroscopy (NIRS) technology to predict the water loss of sweet cherry stalk
- PP-75 **S. Castillo, J.M. Valverde, F. Guillén, P.J. Zapata, H.M. Díaz-Mula, D. Valero, M. Serrano, D. Martínez-Romero**  
Methyl jasmonate and methyl salicylate affect differentially the postharvest ripening process of 'Primulat' sweet cherry

- PP-76 **P. Terpinc, J. Hribar, S. Tojnko, R. Vidrih, E. Zlatić**  
Influence of orchard treatments and modified atmosphere on quality parameters of cherries cv. Sunburst during storage
- PP-77 **J. Kaplan, L. Dokoupil, A. Matejcek, V. Reznicek, J. Turcinkova**  
Potential of use of gooseberries, currants and their hybrids as table fruit in market network of the Czech Republic
- PP-78 **S. Vekari, Y. Kourkoutas, E. Fitsiou, A. Pappa, P. Zamanidis, E. Eleftheriadis**  
Phytosterol composition, antioxidant potential and antimicrobial properties of the unsaponifiable fractions from leaves of three Russian Sea Buckthorn varieties (*Hippophae rhamnoides* L.) and *Lycium Barbarrum* (Godji berry) cultivated in Greece
- PP-79 **S. Vekari, Y. Kourkoutas, H. Labrinea, I. Panagopoulou**  
Fatty acids in lipids of five different berries grown in Greece
- PP-80 **E.C. Georgiadou, V. Goulas, T. Ntourou, G.A. Manganaris, P. Kalaitzis, V. Fotopoulos**  
Exploring the “forgotten” vitamin E biosynthesis in olive fruit (*Olea europaea* L.)
- PP-81 **G.A. Manganaris, P. Drogoudi, V. Goulas, G.E. Pantelidis, G. Tanou, K. Paschalidis, A. Manganaris**  
Antioxidant phytochemicals of peach fruit during postharvest ripening: the effect of genotype, maturity stage and cold storage
- PP-82 **S. Chaiwong, C.F.H. Bishop**  
Impact and vibration damage to ‘Elsanta’ strawberries in punnet by electrical conductivity evaluation
- PP-83 **I. Capotorto, M.L. Amodio, G. Colelli**  
Influence of modified atmosphere packaging on shelf-life of whole and sliced ‘Cardoncello’ mushroom (*Pleurotus eryngii*)
- PP-84 **N. Zaid, L. Tarricone, D. Di Gennaro, N. Admane, V. Verrastro**  
Application of rutin, potassium bicarbonate and passive MAP to improve organic red table grapes (*Vitis vinifera* cv. Sugranineteen) quality
- PP-85 **M. Gajewski, S. Paweł, P. Marta**  
The influence of CA storage on quality traits of carrot cultivars of different root colour
- PP-86 **R. Briano, V. Girgenti, N.R. Giuggioli, C. Peano**  
Performance of different box bags for MAP to preserve the quality of plums cv. Angeleno in the transport storage conditions
- PP-87 **M. Horák, J. Goliáš, J. Balík, P. Šnurkovič, A. Němcová**  
Effect of controlled atmosphere storage on qualitative parameters of Asian pear cultivar ‘Zaosuli’
- PP-88 **M.C. Villalobos, M.J. Serradilla, A. Martín, S. Ruiz-Moyano, E. Martín, M.G. Córdoba**  
Effect of modified atmospheres packaging on the antioxidant activity and total phenolic content in ‘Albacor’ figs (*Ficus carica* L.)
- PP-89 **N. Tzortzakis, C. Sergentani**  
Influence of heat stress and calcium chloride treatment in loquat storage under control atmospheres
- PP-90 **L. Mastrandrea, M.L. Amodio, S. Pati, G. Colelli**  
Effect of temperature and CO<sub>2</sub> on storability of rocket leaves (*Diplotaxis tenuifolia*)
- PP-91 **L. Mastrandrea, M.L. Amodio, G. Colelli**  
Effect of high CO<sub>2</sub> on storability of rocket leaves (*Diplotaxis tenuifolia*)
- PP-92 **A.L.T. Powell, B. Blanco-Ulate, E. Vincenti, K-L. Lam-Chang, A. Vicente, J.M. Labavitch**  
Preparation for harvest: Contributions of unripe fruit chloroplasts and preformed defenses for ripe fruit quality
- PP-93 **M. Wenneker, F. Schoorl, A. van Schaik**  
Predicting storage quality of pome fruit and minimizing post-harvest losses
- PP-94 **Z. Xie, M.T. Charles, D. Charlebois, D. Rolland, D. Roussel, M. Deschênes, C. Dubé, S. Khanizadeh, J. Fan**  
Preharvest exposure to UV-C radiation: impact on strawberry fruit quality
- PP-95 **M. Asaduzzaman, E.A. Bekele, M. Hertog, P. Verboven, B.M. Nicolaï**  
Multi-response optimization of headspace solid phase microextraction (HS-SPME) protocol for lychee aroma analysis based on RSM
- PP-96 **S. Brizzolara, P. Tonutti**  
Changes in volatile organic compound (VOC) profiling of peaches stored at different low temperatures
- PP-97 **A. Martinez**  
«PIMPRENELLE», a laboratory for the automatic control of fruit quality
- PP-98 **L. Machecha, R. Germs, P. Luning, J. van der Vorst**  
Reducing postharvest losses in fresh supply chains: A hierarchical framework for food quality and food logistics decisions
- PP-99 **L.-C. Huang**  
Post-harvest consumer evaluation: consumer trade-off behavior among the product benefits on pesticide-free vegetables cultivated with plant factory systems
- PP-100 **P. Novillo, R. Gil, C. Besada, A. Salvador**  
Astringency removal of ‘Rojo Brillante’ persimmon by combining CO<sub>2</sub> and ethanol application
- PP-101 **P. Novillo, A. Salvador, P. Navarro, C. Besada**  
Sensitivity of astringent and non-astringent persimmon cultivars to flesh disorders induced by mechanical damage
- PP-102 **M. Valdenegro, L. Fuentes, R. Simpson**  
Blocking of ethylene perception modulates the enzyme antioxidant system and increase the chilling tolerance of Spanish melon fruit
- PP-103 **M. Buccheri, A. Caralla, T. D’ambrosio, P. De Vecchi, M. Grassi**  
Chemical composition and antioxidant activity of mature and ripe kiwifruit
- PP-104 **R.C.M. Resende Nassur, S. González-Moscoso, G. Crisosto, S. Tonetto de Freitas, C. Crisosto**  
Establishing a minimum quality index for the ‘ready to eat’ mango



- PP-105 **L. Nichelmann, M. Schultze, W. Bilger, M. Geyer, W.B. Herppich**  
Plant efficiency controlling violaxanthin cycle pool size in leaves may be determined by the blue to red chlorophyll fluorescence excitation ratio
- PP-106 **M. Kerek, A. Jezdinsky, K. Ugróczy-Nagy, M. Mihály, K. Slezák**  
The effect of postharvest ripening duration on spice pepper powder pigment and sugar content
- PP-107 **A. Jezdinsky, M. Mihály, F. Orosz, R. Pokluda, K. Slezák**  
The effect of potassium fertilization on the sweet pepper fruits' shrinkage during storage
- PP-108 **F. Bekhradi, M.C. Luna, J.A. Tudela, M. Delshad, A. Kashi, M. Babalar, M.I. Gil**  
Effect of deficit irrigation on respiration rate of fresh basil of Genovese variety and Iranian cultivars during storage
- PP-109 **M.H. Park, S.Y. Shin, H.Y. Won, J.W. Choi, J.G. Kim**  
Sucrose treatments delay senescence and reduce ethylene production of Asparagus spears
- PP-110 **O.P. Ramos-Aguilar, J.J. Ornelas-Paz, S. Ruiz-Cruz, P.B. Zamudio-Flores, J.D. Pérez-Martínez, V. Ibarra-Junquera**  
Effect of ripening and heat processing on the physicochemical properties of pectin from *Capsicum annuum* fruits
- PP-111 **A.A. Alexopoulos, I.C. Karapanos, K.A. Akoumianakis, H.C. Passam**  
Effect of post-harvest application of plant growth regulators on the storage life of tubers grown from true potato seed (TPS)
- PP-112 **E. Rukundo, E.J. Mitcham**  
Drying fruits at room temperature using zeolite beads
- PP-113 **L. Contador, P. Shinya, R. Infante**  
Evaluation of textural properties of peaches and nectarines through texture profile analysis
- PP-114 **A. Alhamdan, D.O.M. ElKhair, K. Ahmed**  
Modelling respiration rate of fresh dates fruits under aerobic conditions
- PP-115 **V. Goulas, P.M. Kourdoulas, I.S. Minas, A. Lazaridou, A.N Molassiotis, I. Gerothanasis, G.A. Manganaris**  
High-throughput NMR-based targeted metabolite profiling to elucidate postharvest performance of sweet cherry (*Prunus avium*) fruit
- PP-116 **G. Malindretos, J. Pollalis, D. Aidonis, D. Folinas**  
Climate neutral agrifood products in relation to sustainable supply chain
- PP-117 **S. Huyskens-Keil, I. Eichholz, K. Hassenberg, T. Kabakeris, M.Geyer, W.B. Herppich**  
Postharvest anthocyanin biosynthesis in white asparagus (*Asparagus officinalis* L.) spears—implication of specific light spectra
- PP-118 **M.C. Martínez Madrid, E. López-Gómez, M.F. García-Legaz, I. Egea, P. Sánchez-Bel, M.T. Pretel**  
Ripening and cold storage of the wild plum variety *Prunus divaricata* Ledeb. A study of physiological parameters.
- PP-119 **M.T. Pretel, M.F. García-Legaz, E. López-Gómez, P. Sánchez-Bel, I. Egea, M.C. Martínez-Madrid**  
Ripening and storage of the wild apple *Malus sylvestris* (L.) Mill.
- PP-120 **Z.S. Ilić, L. Šunić**  
Nitrate content in root vegetables during different storage conditions
- PP-121 **Z.S. Ilić, L. Šunić**  
Carbohydrate changes in parsnip (*Pastinaca sativa* L.) during long-term cold storage
- PP-122 **M. A. Mustafa, G. Seymour, G. Tucker, A. Ali**  
Bioactive content of selected tropical fruits as antimicrobial agents
- PP-123 **M. A. Mustafa, G. Seymour, G. Tucker, A. Ali**  
The role of the ubiquitous phenolic compound 'salicylic acid' in chilling tolerance of carambola
- PP-124 **T. Yaseen, E. Damara, P. Albanese, C. Carboni, A.M. D'Onghia, A. Ricelli**  
Use of electrolyzed water, ozone and passive refrigeration in post-harvest to preserve the quality of cherry, table grape and citrus
- PP-125 **G. Đurić, S. Stanivuković, N. Mičić, B. Pašalić**  
Hardness of pear fruit flesh depending on position of fruit on tree
- PP-126 **A. Spinardi, G. Cocetta, I. Mignani**  
Effects of postharvest chitosan treatment on nutritional quality of blueberry (*Vaccinium corymbosum*)
- PP-127 **A.C. Silveira, A. Baeza, V. Escalona**  
Effect of the UV-C radiation combined with non conventional atmosphere packaging on fresh-cut arugula (*Eruca sativa* Mill.) quality
- PP-128 **R.D.Á. Amaral, B.C. Benedetti, M. Pujolà, I. Achaerandio, M.L.B. Bachelli**  
Sodium alginate edible coating to maintain quality of fresh-cut "Asterix" potato
- PP-129 **K. Kampuss, S. Kampuse, I. Murniece, Z. Kruma, S. Sarvi, Texture and Biochemical properties of Freeze-Dried candied gooseberries of Different Cultivars and Two Ripening Stages**
- PP-130 **I. Hanrahan, S. Niemann, N., Valverdi, J. Mattheis**  
Tracking chilling injury development in 'Honeycrip' apples with the DA-meter
- PP-131 **S.O. Babalola, I.B Adeoye, O.O. Adegbite**  
Patterns and challenges in exotic vegetables marketing in Ibadan metropolis, Oyo state Nigeria
- PP-132 **M.Vallone, M. Alleri, P.Catania**  
Study on the tunnel pasteurizer in table olives processing
- PP-133 **H. Larsen, J. Børve, I. Måge, E.Vangdal**  
Plum fruit packed in flow packs with absorbent pads and stored at different temperatures
- PP-134 **M.Z. Sultan, S.M. Khalefa, M.K. Hassanein**  
Effect of climatic changes on shelf life and quality of 'Keitt' mango (*Mangifera indica* L.) fruit

- PP-135 **M.Z. Sultan, Y.S. Mostafa, I.H. Tolba**  
Effect of calcium chloride combined with some anti oxidants on keeping quality and limiting postharvest decay of loquat fruit
- PP-136 **S.O. Tshwenyane, I.A. Legwaila, K. Madome, T. Mathowa**  
Effects of refrigerated and non-refrigerated transportation on the quality of chrysanthemums cut flowers in Gaborone, Botswana
- PP-137 **H. Ghorbani, L.A. Chaparro-Torres, A. Ebrahimzadeh**  
Effects of polyamine spermine on the vase life of cut rose flowers
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