

## Symposium 05: BERRIES BETWEEN OPPORTUNITIES AND CHALLENGES

The Economic Commission Hall, P

Monday, May 13

9.00-9.15	S05	<b>Welcome</b>		
<b>Session I - Breeding, genomics and variety assessment - Chairs (tbc): Nesibe Ebru Kafkas and Bruno Mezzetti</b>				
9.15-9.45	S05	O-I	1	<b>Bruno Mezzetti (Convener and invited KNS)</b> Breeding strategies for new resilient cultivars for berry production
9.45-10.00	S05	O-I	2	<b>Victoria Sunico</b> , Silvia Sabbadini, Amelia Gaston, Beatrice Denoyes, Jose Luis Caballero Repullo, Kevin Folta, Ignazio Verde, Bruno Mezzetti Intragenic approach for remontant strawberry
10.00-10.15	S05	O-I	3	<b>Nesibe Ebru Kafkas</b> Recent Studies on Strawberry Breeding in Türkiye
10.15-10.30	S05	O-I	4	<b>Attiq ur Rehman</b> , Terhi Iso-Touru, Jakob Junkers, Marja Rantanen, Saila Karhu, Daniel Fischer, Muath Alsheikh, Stein Harald Hjeltnes, Bruno Mazzetti, Jahn Davik, Alan Shulman, Timo Hytönen, Tuuli Haikonen Genetic dissection of horticultural traits in a Reconstructed octoploid strawberry population: A Multi-Model GWAS Approach
10.30-10.45	S05	O-I	5	<b>Davide Raffaelli</b> , Franco Capocasa, Bruno Mezzetti, Rohullah Qaderi Sensorial and nutritional quality of strawberry fruits ( <i>Fragaria x ananassa</i> Duch.) obtained from plants subjected to drought stress
10.45-11.00	S05	O-I	6	<b>Agnieszka Orzel</b> , Monika Gasparska, Adriana Janik-Wójs Primocane raspberry and blackberry cultivars from Polish breeding program dedicated for single and double-cropping pot production under tunnels
<b>11.00-11.30</b>	<b>Coffee Break</b>			
11.30-11.45	S05	O-I	7	<b>Alicia Hellens</b> , Robert Diack, Adam Friend Can clonal rootstocks be used to manipulate fruit size in kiwifruit?
11.45-12.00	S05	O-I	8	<b>Keanu Martin</b> , Bruce Anderson, Jager Marinus From Clone to Clone: The Yield Advantages of Interclonal Pollen Transfer
12.00-12.15	S05	O-I	9	<b>Luca Regni</b> , Simona Lucia Facchin, Maurizio Micheli, Cristian Silvestri, Primo Proietti Advances in blackberry synthetic seeds production
12.15-12.30	S05	O-I	10	<b>Roxana Ciceoi</b> , Adrian Asanica, Mihaela Iordachescu Insights into Romanian goji berry breeding
<b>Session II - Berry plant protection. Chairs (tbc): Adrian Asanica and Bartolomeo Dichio</b>				
12.30-12.45	S05	O-II	1	<b>Silvia Sabbadini</b> , Luca Capriotti, Barbara Molesini, Tiziana Pandolfini, Elena Baraldi, Bruno Mezzetti Decreased susceptibility to grey mould disease in <i>Fragaria x ananassa</i> through RNAi-based techniques
12.45-13.00	S05	O-II	2	<b>Larisa Theodora Tilincă</b> , Florin Stanica Phytosanitary problems encountered in an organic kiwifruit orchard in Dobrogea region
<b>13.00-14.00</b>	<b>Lunch</b>			
<b>Session III - Economics in berry industry. Chairs (tbc): Adrian Asanica and David Percival</b>				
14.00-14.30	S05	O-III	1	<b>David Percival (invited KNS)</b> The wild and wide-ranging challenges and opportunities of producing berries in a global economy.
14.30-14.45	S05	O-III	2	<b>Eike Kaim</b> Consumer awareness, buying behaviour and use of fresh berries in different countries
<b>Session IVa - Plant physiology and environment interaction - Chairs (tbc): Gianluca Savini and David Percival</b>				
14.45-15.00	S05	O-IV	1	<b>Marja Rantanen</b> , Anna-Kaisa Jaakkonen, Anu Koivisto, Anu Koivisto, Eero Liski, Tiina Mattila, Nina Sevelius, Terhi Suojala-Ahlfors Analysis of the yield gap in open field strawberry in northern latitudes
15.00-15.15	S05	O-IV	2	<b>Torben B. Toldam-Andersen</b> , Rasmus Madsen, Nauja Lise Jensen The effect of source-sink status on flowering and the performance of everbearing strawberry cultivars
15.15-15.30	S05	O-IV	3	<b>Mariana Cecilia Grohar</b> , Jerneja Jakopic, Metka Hudina, Robert Veberic Elderberry inflorescences - setting the perfect timing for optimal flavor
15.30-15.45	S05	O-IV	4	<b>Manuel Faia Roque</b> , Sophie Lenehan, Mariana Mota, Teresa Valdivieso, Pedro Brás de Oliveira Yield and morphological response of two segregating lines of <i>Rubus fruticosus</i> to three different periods of cold treatment

15.45-16.00	S05	O-IV	5	<b>Kristyna Simkova</b> , Massimiliano Pelacci, Mariana Cecilia Grohar, Tea Ivancic, Tina Smrke, Nika Cvelbar Weber, Metka Hudina, Jerneja Jakopic	Detailed composition of white strawberries and how does it change during ripening
<b>16.00-16.30</b>				<b>Coffee Break</b>	
<b>Poster session I - Chairs (tbc): Adrian Asanica and Nesibe Ebru Kafkas</b>					
16.30-18.00	S05	P-I	1	<b>Kaspars Kampuss</b> , Pavels Semjonovs, Kristine Afonina, Ingrida Augspole, Irina Sivicka	Effect of treatment with microalgae extracts on growth and development of raspberry
	S05	P-I	2	<b>Kaspars Kampuss</b>	The evaluation of temperature and light conditions for strawberries grown vertically in open area and greenhouse and their plant morphological and biochemical parameters
	S05	P-I	3	<b>Remigijus Daubaras</b> , Laima Cesoniene, Sandra Saunoriute, Viktorija Januskevica	Phenolic compounds and antioxidant activity of <i>Actinidia kolomikta</i> and <i>Actinidia arguta</i> berry extracts
	S05	P-I	4	<b>Remigijus Daubaras</b> , Laima Cesoniene	Cultivation of blueberry saplings in peat substrates with different rates of spruce, pine fibre and perlite
	S05	P-I	5	<b>Agnieszka Marasek-Ciolakowska</b> , Lukasz Seliga, Stanislaw Pluta, Aleksandra Machlanska, Malgorzata Podwyszynska	Application of polyploidy genotypes in breeding in genus <i>Ribes</i> and <i>Lonicera</i> at the National Institute of Horticultural Research in Skierniewice, Poland
	S05	P-I	6	<b>Agnieszka Masny</b> , Jolanta Kubik, Krzysztof Pezik, Piotr Skreta	New advanced clones of red raspberry ( <i>Rubus idaeus</i> L.) bred at the National Institute of Horticultural Research in Skierniewice, Poland
	S05	P-I	7	<b>Lukasz Seliga</b> , Stanislaw Pluta, Monika Mieszczakowska-Frac	Productivity value of new Saskatoon berry ( <i>Amelanchier alnifolia</i> Nutt.) genotypes bred at the National Institute of Horticultural Research, Skierniewice, Poland
	S05	P-I	8	<b>Sergio Segura</b> , Geremías Rodríguez, Regina Guerra, David Rodríguez, Oskar Segura, Angel Rebollar	Varieties of Blackberries ( <i>Rubus spp.</i> ) of the Chapingo University with diseases tolerance
	S05	P-I	9	<b>Sergio Segura</b> , Alfonso Muratalla, Oskar Segura, José Urbina	Varieties of Blueberry ( <i>Vaccinium spp.</i> ) of the University Chapingo with low chilling requirements
	S05	P-I	10	<b>Freya Ziegler</b> , Sonia Osorio, Vivien Rosenthal, Lukasz Seliga, Lucas Munnes, Barbara Schulten, Anita Sonsteby, Björn Usadel	A genomic assembly elucidates the impact of drought stress on the expression of genes and the composition of metabolites in blackcurrant ( <i>Ribes nigrum</i> L.)
	S05	P-I	11	<b>Piotr Chohura</b> , Mirosław Gluch, Jan Karach, Andrzej Skrobiszewski, Jakub Pannek, Marta Czaplicka, Ewelina Gudarowska	The potential of the Hydreset irrigation support system to increase the productivity pot growing blueberries
	S05	P-I	12	<b>Saara Tuohimetsä</b> , Marja Rantanen	Remote monitoring of currant shoot borer ( <i>Lampronia capitella</i> ) moths in blackcurrant in Finland
	S05	P-I	13	<b>Kujtim Lepaja</b> , Verina Krasniqi, Lavdim Lepaja, Vahid Avdiu, Lindita Ibishi	Effect of biostimulants on nutrient contents of Duke blueberries
	S05	P-I	14	<b>Pawel Krawiec</b>	Effect of pre-planting fumigation on fruit quality and yield of raspberries
	S05	P-I	15	<b>Georgiana-Roxana Ghibaldan Tomosoiu</b> , Ozana Tepes, Adrian Asanica, Stelica Cristea, Dana Tapaloaga, Liliana Tudoreanu	Textural characterization of bread containing berries powders
	S05	P-I	16	<b>Agnieszka Orzel</b> , Joanna Ciepialowska, Monika Gasparska	The in-vitro and ex-vitro propagation of the newest Polish early primocane raspberry releases 'Magnat' and 'Baron'
	S05	P-I	17	<b>Lavinia Mihaela Iliescu</b> , Florin Stanica	New kiwi cultivars – super fruits for Romanian producers and consumers
	S05	P-I	18	<b>Lavinia Mihaela Iliescu</b> , Florin Stanica	Leaf pubescence – an early identification key of <i>Actinidia</i> species and plant gender

**Tuesday, May 14**

10.00-16.00      **Technical Tours - Merry Berry Farm**

**Wednesday, May 15**

**Session IVb - Plant physiology and environment interaction - Chairs (tbc): Gianluca Savini and Nesibe Ebru Kafkas**

9.00-9.30	S05	O-IV	1	<b>Gianluca Savini (invited KNS)</b>	Raspberry primocane and florican genotype, different plants type and fruit cycles manipulation
9.30-9.45	S05	O-IV	2	<b>Melba Salazar-Gutiérrez</b> , Kathy Lawrence, Elina Coneva, Bernardo Chaves-Cordoba	Photosynthesis of Blueberry Grown in An Alternative Production System
9.45-10.00	S05	O-IV	3	<b>Bernardo Chaves-Cordoba</b> , Nelda Hernandez-Martinez, Melba Salazar-Gutiérrez	Floral Bud Modeling on Strawberries Grown in Hydroponics
10.00-10.15	S05	O-IV	4	Yurii Andrusyk, <b>Halyna Andrusyk</b> , Volodymyr Voitsekhivskiy	Phenology of red and white currants in the climate of Kyiv, Ukraine
10.15-10.30	S05	O-IV	5	<b>Natallia Klakotskaya</b> , Peeter Laurson, Asta-Virve Libek, Ave Kikas	Evaluation of winter hardness of raspberry cultivars ( <i>Rubus idaeus</i> L.) in Estonia
10.30-10.45	S05	O-IV	6	<b>Betul Ayca Dönmez</b> , Salih Kafkas, Nesibe Ebru Kafkas	Impact of Drought Stress on Strawberry Production: A review
10.45-11.00	S05	O-IV	7	Ewelina Wojciechowska, <b>Anne Linn Hykkerud</b> , Anita Sønsteby, Tomasz Woznicki,	Strawberry taste like no other – quality of Norwegian produced berries

**11.00-11.30**      **Coffee Break**

**Session V - Advanced in production systems. Chairs (tbc): Adrian Asanica and Bartolomeo Dichio**

11.30-12.00	S05	O-V	1	<b>Bartolomeo Dichio (invited KNS)</b> , Maria Calabritto, Roberto Di Biase, Alba Mininni	Precision irrigation strategy for climate change adaptation of kiwifruit
12.00-12.15	S05	O-V	2	<b>Rafael Dreux Miranda Fernandes</b> , Brunella Morandi	Optimizing kiwifruit quality through estimation of leaf stomatal conductance from sap flux density: the KiwiQuali project
12.15-12.30	S05	O-V	3	<b>Francisco R. Luz</b> , Teresa Valdivieso, Pedro B. Oliveira	Raspberry primocane winter production in mild winter climates
12.30-12.45	S05	O-V	4	<b>Pauliina Palonen</b> , Jonna Pärssinen, Enni Taskinen, Susanna Simovaar	Sustainable production of cranberries ( <i>Vaccinium macrocarpon</i> ) in a high tunnel soilless cultivation system
12.45-13.00	S05	O-V	5	<b>Elena Grancharova</b> , Blagoj Elenov, Elena Dimitrova	Influence of drip irrigation and fertigation on yield and water use efficiency of white strawberry ( <i>Fragaria x ananassa</i> "Snow white") grown in bulgaria

**13.00-14.00**      **Lunch**

14.00-14.15	S05	O-V	6	<b>Francesco Giovanelli</b> , Cristian Silvestri, Valerio Cristofori	Exploring the opportunities related to biostimulant application on small fruits: a case-study involving open-field grown raspberry ( <i>Rubus idaeus</i> L.)
14.15-14.30	S05	O-V	7	<b>Harlene Hatterman-Valenti</b> , Mika Mzumara	Production of day-neutral strawberry under tunnel protection in North Dakota

**Session VI - Miscellaneous - Chairs: Adrian Asanica and Bartolomeo Dichio**

14.30-14.45	S05	O-VI	1	<b>Ilbilge Oguz</b> , Halil Ibrahim Oguz, Sule Hilal Attar, Dogan Ergun, Tareq Hamejo, Salih Kafkas, Nesibe Ebru Kafkas	Determination Phenolic compounds of Wolfberry grown in Central Anatolia
14.45-15.00	S05	O-VI	2	Nesibe Ebru Kafkas, Ayse Tulin Oz, Sule Hilal Attar, Duygu Ayvaz Sönmez, <b>Ilbilge Oguz</b>	Preharvest Treatments Effects of Strawberry Fruit on Sugar, Organic Acid and Volatiles Compositions During Shelf Life
15.15-15.30	S05	O-VI	3	<b>Yumeng Sun</b> , Carrie Twitchen, Paul Hadley	The Effect of CO2 Concentration and Temperature on the Germination of F1 Everbearing Strawberry Seeds
15.30-15.45	S05	O-VI	4	<b>Irene Piunti</b> , Silvia Sabbadini, Luca Capriotti, Bruno Mezzetti, Marzio Zaccarini, Michela Mattioli	Optimization of in vitro regeneration protocol to induce organogenesis in four cultivars of <i>Fragaria x ananassa</i>
15.45-16.00	S05			<b>Questions and Discussions</b>	

**16.00-16.30**      **Coffee Break**

**Poster session II - Chairs (tbc): Melba Salazar-Gutiérrez and Adrian Asanica**

16.30-18.00

S05	P-II	1	Maria Ganiari, <b>Athanasios Economou</b> , Stefanos Kostas, Ilias Smyrnioudis, Tilemachos Vasilakis, Michalis Chazakis, Fotini Koutsou	Influence of chemical fertilization on the growth and production of young trees of <i>Pistacia lentiscus var. Chia</i>
S05	P-II	2	<b>Athanasios Economou</b> , Stefanos Kostas, Maria Ganiari, Stefanos Hatzilazarou, Ilias Smyrnioudis, Tilemachos Vasilakis, Michalis Chazakis, Konstantina Leontaridou, Angelos K. Kanellis	Effect of Various Stimulants on Mastic Gum Production from Young Trees of <i>Pistacia lentiscus var. Chia</i>
S05	P-II	3	Viorica Lagunovschi-Luchian, <b>Ailin Molosag</b> , Oana Cristina Parvulescu, Violeta Alexandra Ion, Adrian Asanica, Anne-Kristin Loes, Athanasios SALIFOGLU	Comparative assessment of sustainable cultivation practices and fertilization strategies for enhanced strawberry production
S05	P-II	4	<b>Liliana Aurelia Badulescu</b> , Oana-Crina Bujor, Annette Reineke, Daniel Pleissner, Lene Sigsgaard, Rachid Lahlali, Abdelali Blenzar, Grzegorz Doruchowski, Bogdan Mihalcea, Roxana Ciceoi	Resilient organic berry cropping systems through enhanced biodiversity and innovative management strategies
S05	P-II	5	<b>Irina Titirica</b> , Florentina Netcu, Aurelia Diaconu, Stefan Nanu, Birsoaghe Cristina, Alina-Nicoleta Paraschiv, Milica Dima	Evaluation of the growth and fruiting characteristics to some raspberry cultivars grown in the conditions of sandy soils from Southwestern Romania
S05	P-II	6	<b>Gabriela Brad</b> , Dan Nicolae Popescu, Eduard Padurariu, Adrian Asanica, Stelica Cristea, Dana Tapaloaga, Liliana Tudoreanu	Textural Profile Analysis of Some Blueberry Cultivars Cultivated in Romania
S05	P-II	7	<b>Jasminka Milivojevic</b> , Dragan Radivojevic, Vuk Maksimovic, Jelena Dragisic Maksimovic	What fertilizer management strategy is the most effective to optimize the leaf and fruit nutrient content of soilless grown highbush blueberries?
S05	P-II	8	<b>Jelena Tomic</b> , Svetlana Paunovic, Zaklina Karaklajic-Stajic, Marijana Pesakovic, Boris Rilak, Franc Stampar, Jerneja Jakopic	Assesment of adaptation potential of black currant cultivars based on growth, productivity and fruit quality
S05	P-II	9	<b>Milica Fotiric Aksic</b> , Uros Gasic, Tomislav Tosti, Zivoslav Tesic, Mekjell Meland	Profiling sugars and polyphenolics in red raspberries grown in Serbia
S05	P-II	10	<b>Coline Pons</b> , Tangui Le Noan, Sandrine Laurent, Huguette Sallanon, Pierre Brat, Véronique Vidal	Elicitation of strawberry defense response by external application of phenylalanine: a route to a future antifungal biocontrol solution
S05	P-II	11	<b>Mihaela Cecilia Dogaru</b> , Damian Dragomir, Catalin-Viorel Oltenacu, Andreea Mihaela Udrea-Brasla, Mihaela Postolici-Ursachi, Cristian Calinita	The influence of the application of some ecological products on some quality indices of strawberry fruits
S05	P-II	12	<b>Sebastian Soppelsa</b> , Michael Gasser, Massimo Zago	Comparison of field performance and fruit quality of 5 European june-bearing strawberry cultivars under alpine growing environment (South Tyrol, Italy)
S05	P-II	13	<b>Selcen Dogan</b> , Duran Simsek, Cansu Simsek, Sebnem Ellialtioglu	Micropropagation Studies on Ottoman Strawberry ( <i>Fragaria × ananassa</i> )
S05	P-II	14	<b>Francesco Maldera</b> , Francesco Arcieri, Francesco Nicoli, Salvatore Camposeo	Application of a non-microbial biostimulant enhances precocity and king flowers number in a kiwifruit orchard in center Italy
S05	P-II	15	<b>Theodora Hriban</b> , Florin Stanica, Adrian Peticila, Catalina Nicolae, Oana Venat	Preliminary results regarding the in vitro propagation of some kiwifruit genotypes
S05	P-II	16	<b>Monica Sturzeanu</b> , Madalina Butac, Oana Hera, Mihaela Paraschiv	Evaluation of blackberry breeding selections for fruit quality traits
S05	P-II	17	<b>Kristyna Simkova</b> , Helen Murray, Manfred Gössinger, Metka Hudina, Jerneja Jakopic	Sugar and organic acid content and antioxidant capacity of strawberry fruit in relation to colour stability of puree

**Thursday, May16**

<b>9.00-12.30</b>	<b>THE FRUITCREW WORKSHOP</b>			<i>ADVANTAGES AND CONSTRAINTS IN THE ADOPTION OF TECHNOLOGIES TO OPTIMIZE IRRIGATION SCHEDULING: The FRUITCREWS perspective</i> <i>A workshop to discuss with researchers, industry and policy makers the state of the art of technologies to optimize irrigation inputs, while tackling the gaps still limiting their adoption in modern orchard systems.</i>
9.00-11.00	COST	WS	1	<i>THE FRUITCREW WORKSHOP</i> Session1
9.00-9.05	COST	WS		Adrian Asanica & Dorin Sumedrea Introduction and Welcome
9.05-9.10	COST	WS		Marius Micu vice-president of COPA
9.10-9.15	COST	WS		Florentin Bercu vice-president of COGECA
9.15-9.30	COST	WS		Brunella Morandi The FruitCREWS network
9.30-9.45	COST	WS		Pasquale Losciale A merged database to identify the best indicators for plant water status (Results from WG1)
9.45-10.00	COST	WS		Klara Shankova How to find the best irrigation strategies? (Results from WG3)
10.00-10.15	COST	WS		Alexandra Boini Existing DSSs: an (incomplete) overview from FruitCREWS (WG4) - ADVANTAGES AND CONSTRAINTS of different types of DSSs
10.15-10.30	COST	WS		Tony Peloe Irrigation scheduling based on soil sensors from "DELTA-T"
10.30-10.45	COST	WS		Shahar Pincovici Irrigation scheduling based on Sap flow monitoring from "TREETOSCOPE"
10.45-11.00	COST	WS		Maria Jimenez Ruz- HydrSoph Irrigation scheduling based on the integration among meteo data, trunk dendrometers and remote sensing from IRRISTRAT
<b>11.00-11.30</b>	<b>Coffee Break</b>			
11.30-12.30	COST	WS	2	<i>THE FRUITCREW WORKSHOP</i> Session2 <i>ROUND TABLE AND DISCUSSION – WHICH TECHNICAL/POLICY CHANGES TO IMPROVE DSS ADOPTION?</i>
12.30-12.45	S05	<b>Young Mind Awards Ceremony</b>		
12.45-13.00	S05	<b>Closing Ceremony</b>		
<b>13.00-14.00</b>	<b>Lunch</b>			
14.00-15.00	ISHS BUSINESS MEETING			
15.00-17.00	FAREWELL SPEECH & ENTERTAINMENT			