

17.00

Registration



PLENARY ROOM

18.30 - 20.00

OPENING CEREMONY


STRAWBERRY FROM THE PAST TO THE FUTURE
Bruno Mezzetti, Gianluca Baruzzi and Maurizio Battino


TRIBUTE TO CHAD FINN
Aaron Liston and Javier Antonio Fernandez-Salvador

20.00 - 21.00

Welcome cocktail

	PLENARY ROOM
08.00	<p style="text-align: center;"> <u>BLUE LINE</u> Plant genotype, phenotype, breeding, biotechnology, physiology, plant adaptation, resilience, nursery, certification, patenting. ----- Aaron Liston ----- REVISITING THE ORIGIN OF OCTOPLOID STRAWBERRY </p>
08.45	<p style="text-align: center;"> <u>GREEN LINE</u> Cultivation Systems (open field, protected and soilless cultivation), plant nutrition, irrigation and water requirements, climate and light management, programmed production, reducing labour, harvesting technology, increasing quality. ----- Yiannis Ampatzidis ----- AUTOMATION, ARTIFICIAL INTELLIGENCE, AND ROBOTICS IN STRAWBERRY PRODUCTION </p>
09.30 - 10.00	<p style="text-align: center;"><i>Morning break & Exhibition Visit</i></p>

	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
FIRST GROUP OF PARALLEL SESSIONS	BLUE LINE - GENETIC RESOURCES	GREEN LINE - CULTIVATION SYSTEMS	GREEN LINE - WORLD PRODUCTION
10.00	250-Coordination of genebank activities between different national collections in Europe in the frame of ECPGR <i>Monika Höfer, Julius Kühn Institute, Institute Breeding Research on Fruit Crops, Dresden, Germany</i>	210-NIRS as a fast screening technique for total nutrient uptake by strawberries and biochemical composition of growing media <i>Bart Vandecasteele, ILVO, Plant Sciences Unit, Merelbeke, Belgium</i>	10-Profitable day-neutral strawberry variety and planting date combination for year-round strawberry fruit production in the Southern Cape, South Africa <i>Patience Parehw, Nelson Mandela University, George Campus, South Africa</i>
10.15	191-Breeding potential of underutilized <i>Fragaria</i> species <i>Klaus Olbricht, Hansabred GmbH CO KG Dresden, Humboldt-Universität zu Berlin, Germany</i>	216-First results of the strawberry leaf nutrient analysis performed by novel energy dispersive X-ray fluorescence (EDXRF) technique <i>Ulvi Moor, Estonian University of Life Sciences, Tartu, Estonia</i>	309-Success of italian genotypes cultivated in Brazil <i>Leo Rufato, UDESC, Brazil</i>
10.30	61-Investigation and classification of the five tetraploid <i>Fragaria</i> species native to China <i>Jiajun Lei, China</i>	142-Growth Responses and Fruit Qualities Affected by Different Light Colors and Phosphorus Concentrations on Strawberry Grown in Plant Factory <i>Lu Le Trong, Crop science Lab, University of The Ryukyus, Okinawa, Japan</i>	253-Strawberry crop in extreme climatic zones of Chilean Patagonia <i>Marina Gambardella, Departamento de Fruticultura y Enología, Facultad de Agronomía e Ingeniería Forestal, Pontificia, Universidad Católica de Chile, Santiago, Chile</i>
10.45	185-Assessment of strawberry pre-breeding material for crown rot resistance and root traits by high-throughput screening <i>Tuuli Haikonen, Natural Resources Institute Finland Luke, Horticultural technologies, Turku, Finland</i>	78-Theoretical evaluations of profitability of supplemental lighting use for strawberry <i>Chieri Kubota, Ohio State University, Department of Horticulture and Crop Science, United States of America</i>	232-Strawberry (<i>Fragaria</i> X <i>ananassa</i>) production sector in Georgia ' current situation and development direction <i>Zviad Bobokashvili, Georgia, United States of America</i>
SECOND GROUP OF PARALLEL SESSIONS	BLUE LINE - BREEDING PROGRAMS	GREEN LINE - CULTIVATION SYSTEMS	GREEN LINE - WORLD PRODUCTION
11.15	231-Recent progress in Strawberry Breeding and Genetics at NIAB EMR, East Malling, UK <i>Adam Whitehouse, NIAB EMR, East Malling, United Kingdom</i>	104-Effects of incorrect planting practices on early fruit production of fresh-dug and 'frigo' strawberry runner plants <i>Daniel Kirschbaum, INTA Famaillá, Tucumán, Argentina</i>	79-Evaluating the State of the Oregon Strawberry Industry in 2019 <i>Javier Fernandez-Salvador, Oregon, United States of America</i>
11.30	67-Cultivars developed in the strawberry breeding program of Fresas Nuevos Materiales S.A <i>Fernando Piston, Fresas Nuevos Materiales, Huelva, Spain</i>	41-Use of containerized day-neutral strawberry transplants for early field establishment and increased production <i>Tessa Barker, Oregon, United States of America</i>	87-Current status and future prospect of strawberry production in East and Southeast Asia <i>Takashi, Nishizawa, Faculty of Agriculture, Yamagata University, Japan</i>

	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
11.45	303-Updates on Italian strawberry breeding programs coordinated by CREA <i>Gianluca Baruzzi, CREA, Research Centre Olive, Citrus Fruit tree, Forlì, Italy</i>	165-Effect of planting date on greenhouse strawberry production <i>Mike Nichols, New Zealand</i>	183-Progress on Everbearing Strawberry in high-temperature summer regions in China <i>Jing Wang, Institute of Pomology, JAAS, Jiangsu Academy of Agricultural Sciences, Jiangsu, China</i>
12.00	262-Generating novel strawberry pre-breeding material from <i>Fragaria x ananassa</i> back-crossing program of <i>F. virginiana</i> and <i>F. chiloensis</i> inter-specific hybrids <i>Bruno Mezzetti, Università Politecnica delle Marche, Ancona, Italy</i>	36- Effect of summer planting time on strawberry productivity and quality <i>Nenad Magazin, University of Novi Sad, Faculty of Agricul., Department for fruitgrowing, Serbia</i>	218-The Current Progress in Strawberry Culture in Turkey <i>Husnu Demirsoy, OMU Agricultural University, Horticultural Department, Samsun, Turkey</i>
12.15	GENERAL DISCUSSION	GENERAL DISCUSSION	321-Open and protected cultivation of strawberry in Armenia. <i>Syuzanna Hovsepyan, Armenia</i>
12.30 - 13.30	<i>Working Lunch</i>		



PLENARY ROOM

13.30

BLUE LINE A

Plant genotype, phenotype, breeding, biotechnology, physiology, plant adaptation, resilience, nursery, certification, patenting.

Steven Knapp

TRADITIONAL AND GENOME-INFORMED BREEDING STRATEGIES
FOR DELIVERING THE NEXT-GENERATION OF STRAWBERRY CULTIVARS


14.15


GREEN LINE


Cultivation Systems (open field, protected and soilless cultivation), plant nutrition, irrigation and water requirements, climate and light management, programmed production, reducing labour, harvesting technology, increasing quality.


Anita Sønsteby


FLOWERING AND DORMANCY RELATIONS OF STRAWBERRY AND EFFECTS
OF MANAGEMENT AND A CHANGING CLIMATE FOR PRODUCTION


	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
THIRD GROUP OF PARALLEL SESSIONS	BLUE LINE - GENOMIC STUDIES	GREEN LINE - PLANT NUTRITION	ORANGE LINE - PEST AND DISEASE MANAGEMENT
15.00	247-Whole Genome Assembly in a Japanese variety, 'Reikou' and comparison with wild <i>Fragaria</i> genomes <i>Isobe Sachiko, Kazusa DNA Research Institute, Japan</i>	296-Evaluation of hydroponic strawberries dynamic growth response to diurnal evolution of nutrient solution by 4D plant phenotyping <i>Saneyuki Kawabata, Inst. Sustainable Agro-Ecosystem Services, The University of Tokyo, Japan</i>	122-Sources of inoculum of <i>Macrophomina phaseolina</i> in outbreaks of charcoal rot of strawberry in Australia <i>David Oag, Queensland, Australia</i>
15.15	154-Strawberry genome dissection to identify new regions responsible for the inheritance of fruity and flowery aroma <i>Pol Rey, IRTA, Spain</i>	282-Optimal trayplant propagation with the use of Quality Monitoring System <i>Willem van Eldik, Delphy BV, The Netherlands</i>	27-The essential oils as bio-fungicide against strawberry <i>Colletotrichum</i> spp <i>Neringa Rasiukeviciute, Lithuania</i>
15.30	57-High-throughput Mono-antibody Array Generation and Its Application in Strawberry <i>Fragaria</i> × <i>ananassa</i> <i>Ling Guan, China</i>	289-Effects of Arbuscular Mycorrhizae <i>Glomus iranicum</i> var. <i>tenuihypharum</i> on Strawberry Fruit Yield and Quality <i>Giancarlo Roccuzzo, CREA, Research Centre Olive, Citrus Fruit tree, Forlì, Italy</i>	102-Susceptibility/tolerance to <i>Macrophomina phaseolina</i> in strawberry using different inoculation techniques under controlled and natural conditions <i>Stanley Freeman, Dept. of Plant Pathology and Weed Research, ARO - The Volcani Center, Rishon LeZion, Israel</i>
15.45	287-The sugar transporter system of strawberry: genome-wide identification and expression correlation with fruit soluble sugar-related traits in <i>Fragaria</i> × <i>ananassa</i> Duchesne germplasms collection <i>Qing-Hua Gao, China</i>	33-The effect of the endophytic bacteria <i>Methilobacterium symbioticum</i> (BlueN) on nitrogen chemical fertilizer reduction in strawberry crop var Fortuna <i>Félix Fernández Martín, Pol. Industrial Cabezo Cortado Murcia, Spain</i>	52-Autonomous UV-C application to deal with low and high powdery mildew disease pressure in strawberry <i>Stef Laurijssen, Belgium</i>
16.00-16.15	<i>Coffee break</i>		

	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
FOURTH GROUP OF PARALLEL SESSIONS	BLUE LINE - GENES STUDY	GREEN LINE - PLANT NUTRITION	ORANGE LINE - PEST AND DISEASE MANAGEMENT
16.15	32-Rapid Alkalinization Factor (RALF) gene family genomic structure and transcriptional regulation during host-pathogen crosstalk in <i>Fragaria vesca</i> and <i>Fragria x ananassa</i> strawberry <i>Francesca Negrini, DISTAL, University of Bologna, Italy</i>	212-Circular use of nutrients in soilless strawberry cultivation: spent growing media as key element <i>Bart Vandecasteele, ILVO, Plant Sciences Unit, Merelbeke, Belgium</i>	37-Soil borne diseases increasing in Finnish strawberry production <i>Paivi Parikka, Natural Resources Institute Finland, Jokioinen, Finland</i>
16.30	267-RNAi-based approaches to induce resistance against grey mould disease in strawberry <i>Silvia Sabbadini, Università politecnica delle Marche, Ancona, Italy</i>	19-The influence of stolon harvest frequency and nitrate: ammonium ratio on asexual reproduction of day-neutral strawberries (<i>Fragaria x ananassa</i> cv. 'Albion') <i>Xiaonan Shi, North Carolina, United States of America</i>	238-Challenges and opportunities: strawberry nursery operations in North America <i>Mark Hoffmann, North Carolina State University, Dept of Horticulture, United States of America</i>
16.45	146-Silencing of strawberry pathogen defence related candidate genes by using specific strawberry fruit ripening-related promoters: an intragenic approach to improve fruit quality and resistance <i>José Luis Caballero, Dpto de Bioquímica y Biología Molecular, Universidad de Córdoba, Spain</i>	24-The Effect of Two Nutrient Treatments on a Glass-house Grown Crop of the Strawberry Cultivar 'Malling Centenary' <i>E. Kehoe, Teagasc, Ashtown Research Centre, Castleknock, Dublin, Ireland</i>	162-A potential antagonist against <i>Macrophomina phaseolina</i> on strawberry in Australia <i>Apollo Gomez, DAF Queensland, Maroochy Research Facility, Nambour, Australia</i>
17.00	96-The SWEET family genes in strawberry: Identification and expression profiling during fruit development <i>Ke Duan, Shanghai Academy of Agricultural Sciences, China</i>	39-Using the KNS system for fertilization in strawberry cultivation <i>Miet Boonen, Fruittuinweg, Sint-Truiden, Belgium</i>	199-Red leaf': A new disorder in Australian strawberry plants <i>Joanna Kristoffersen, Department of Agriculture and Fisheries, Queensland, Australia</i>

	PLENARY ROOM
17.15	<p style="text-align: center;"> <u>BLUE LINE A</u> Plant genotype, phenotype, breeding, biotechnology, physiology, plant adaptation, resilience, nursery, certification, patenting. ----- Beatrice Denoyes ----- BREEDING FOR FRUIT AND DAUGHTER PLANTS YIELD </p>
18.00 - 19.00	<p style="text-align: center;"><i>POSTER SESSION</i></p>
19.30 - 22.30	<p style="text-align: center;"><i>Get Together</i></p>

	PLENARY ROOM
08.00	<p style="text-align: center;"> <u>GREEN LINE B</u> Cultivation Systems (open field, protected and soilless cultivation), plant nutrition, irrigation and water requirements, climate and light management, programmed production, reducing labour, harvesting technology, increasing quality. ----- Peter Melis ----- MODERN SUBSTRATE CULTIVATION OFFERS POSSIBILITIES FOR A MINIMUM OF RESIDUES ON STRAWBERRY </p>
08.45	<p style="text-align: center;"> <u>ORANGE LINE C</u> New strawberry pathogens, soil borne and plant pathogens, soil fumigation, IPM/Organic, post-harvest management. ----- Ioannis E. Tzanetakis ----- STRAWBERRY PLANT CERTIFICATION IN THE 21ST CENTURY: FROM GRAFTING TO BIOINFORMATICS AND BEYOND </p>
09.30 - 10.00	<p style="text-align: center;"><i>Morning break & Exhibition Visit</i></p>

	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
FIFTH GROUP OF PARALLEL SESSIONS	BLUE LINE - GENES STUDY	GREEN LINE - SUSTAINABLE SYSTEM	ORANGE LINE - SOIL FUMIGATION
10.00	186-Genetic and physical mapping of Fw1, a fusarium wilt resistance gene in strawberry <i>Nicolas Cobo, Departamento de Producción Agropecuaria, Universidad de La Frontera, Temuco, Chile</i>	220-Towards more sustainable soilless strawberry production <i>Matevz Papp-Rupar, NIAB EMR, East Malling, United Kingdom</i>	1-Sustainability of strawberry nurseries and fruit production in relation to fumigation practices in Europe <i>Arben Myrta, Certis Europe, Italy</i>
10.15	174-Genome-wide prediction of powdery mildew resistance in strawberry <i>Ronald Tapia, University of Florida, IFAS, Gulf Coast Research and Education Center, Wimauma, United States of America</i>	49-Reuse of drain water with a first flush system on strawberry trayfields drastically reduces the use of ground water <i>Dieter Baets, Voort Hoogstraten, Belgium</i>	7-Soil pest management in current California strawberry production <i>Oleg Daugovich, University of California Ventura, United States of America</i>
10.30	227-Expression of the antifungal protein afp from <i>Aspergillus giganteus</i> for increasing fungal resistance in strawberry <i>Elena Palomo Ríos, Instituto de Hortofruticultura Subtropical, y Mediterranea "La Mayora" IHSM-UMA-CSIC, Depart Botanica y Fisiologia Vegetal, Málaga, Spain</i>	318 -Next Generation Growing System for optimizing growing climate for strawberry <i>Bart Jongenelen, Delphy BV, The Netherlands</i>	158-The impact of soil fumigants and planting material on charcoal rot of strawberry in Australia <i>Dylan McFarlane, Australia</i>
10.45	118-Progress in molecular breeding for resistance to <i>Colletotrichum acutatum</i> in strawberry at the University of Florida <i>Natalia Salinas, University of Florida, IFAS, Gulf Coast Research and Education Center, Wimauma, United States of America</i>	280-Life Cycle Assessment of Strawberry soilless cultivation and packaging: an Italian case study <i>Alessio Ilari, Università Politecnica delle Marche, Ancona, Italy</i>	166-Application of eco-friendly practices alternative to soil chemical fumigation: preliminary results on strawberry <i>Daniela Giovannini, CREA, Research Centre Olive, Citrus Fruit tree, Forlì, Italy</i>

	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
SIXTH GROUP OF PARALLEL SESSIONS	BLUE LINE - VITRO CULTURE	GREEN LINE - CULTIVATION SYSTEMS	ORANGE LINE - PATHOGENS CONTROL STRATEGIES
11.15	182-Optimisation of the micropropagation protocol of cultivated strawberry (<i>Fragaria x ananassa</i> Duch.) <i>Justine Perrotte, INVENIO, Maison Jeannette, 24140 Douville, France</i>	228-Yield and dry matter allocation in soilless strawberry with sheep manure compost <i>Horacio E. Alvarado-Raya, Universidad Autonoma Chapingo, Mexico</i>	120-A Managed approach to controlling strawberry powdery mildew using a silicon nutrient and a decision support system to predict the optimum time to spray fungicides <i>Avic Hall, University of Hertfordshire, United Kingdom</i>
11.30	200-A new economical storage technique for strawberry in-vitro <i>Jodi Neal, Maroochy Research Facility, Nambour, Australia</i>	235-Living Mulches for Weed Control in Day Neutral Strawberry Plantings in the Northern US <i>Emily Hoover, Department Horticultural Sci., University of Minnesota, United States of America</i>	75-Comparison of leaf phenolic content for gray mold defense in tolerant and sensitive strawberry cultivars <i>Salih Kafkas, Univ of Cukurova Fac of Agriculture, Adana Balcali, Turkey</i>
11.45	245-Production of strawberry nuclear stock at the Micropropagation and Repository Unit <i>Christie Almeyda, Micropropagation and Repository Unit, North Carolina, United States of America</i>	305-Quantitative analysis of effect of cultivation environment on growth and yield in summer and autumn production using everbearing variety Suzuakane <i>Yasunaga Iwasaki, Institute of Vegetable and Floriculture, science, NARO, Japan</i>	26-The colletotrichum spp. inhibition by pulsed light <i>Neringa Rasiukeviciute, Lithuania</i>
12.00	275-Micropropagated strawberry mother plants for high quality frigo and plug plants nursery production <i>Franco Capocasa, D3A-Università Politecnica delle Marche, Ancona, Italy</i>	283-Plant growth and fruit quality response of strawberry to exogenous application of 24-epibrassinolide <i>Raheel Anwar, Institute of Horticultural Sciences, University of Agriculture, Punjab, Pakistan</i>	234-Recent advances in ultraviolet-C technology for disease and arthropod pest management <i>Fumiomi Takeda, Appalachian Fruit Res. Stat., USDA/ARS, Kearneysville, United States of America</i>
12.15	GENERAL DISCUSSION	GENERAL DISCUSSION	GENERAL DISCUSSION
12.30 - 13.30	<i>Working Lunch</i>		



PLENARY ROOM

13.30

BLUE LINE A

Plant genotype, phenotype, breeding, biotechnology, physiology, plant adaptation, resilience, nursery, certification, patenting.

Qing-Hua Gao

INTERACTIONS OF STRAWBERRY WITH FUNGUS PATHOLOGY
AND NEW GERMPASMS ENHANCEMENT WITH DISEASE RESISTANCE


14.15


ORANGE LINE C


New strawberry pathogens, soil borne and plant pathogens, soil fumigation, IPM/Organic, post-harvest management.


Juan Carlos Diaz Ricci


INDUCTION AND SUPPRESSION OF THE DEFENCE RESPONSE MEDIATED
BY FUNGAL PATHOGENES IN STRAWBERRY PLANTS


	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
SEVENTH GROUP OF PARALLEL SESSIONS	BLUE LINE - GENETIC/FLOWERING	GREEN LINE - CULTIVATION SYSTEMS	RED LINE - FRUIT QUALITY
15.00	261-Identification of new actors influencing the balance between flowering and runnering in strawberry <i>Amèlia GASTON, INRAE, Univ. Bordeaux, Villenave d'Ornon, France</i>	12-Low Tunnels for Season Extension of Day-Neutral Organic Strawberries in the U.S. Pacific Northwest <i>Javier Fernandez-Salvador, Oregon, United States of America</i>	89-Storage of halved strawberry fruits affects aroma, phytochemical content and gene expression, and is affected by pre-harvest factors <i>Ashley Baldwin, United Kingdom</i>
15.15	269-Phenotypical characterization of strawberry (Fragaria x ananassa) plants overexpressing FLOWERING LOCUS T genes <i>Silvia Sabbadini, Università Politecnica delle Marche, D3A, Italy</i>	173-Changes in The Growth and Development of `Albion`, `Portola` and `Sweet Ann` Day-Neutral Strawberry Varieties in Summer and Fall Crop Production <i>Leyla Demirsoy, Ondukuz Mayis University, Facult of Agriculture, Turkey</i>	144-High-throughput mapping of cell wall glycans to unveil cell wall disassembly, a key process determining strawberry fruit softening <i>Sara Posé, Dept. Botanica y Fisiologia Vegetal, University of Malaga, Malaga, Spain</i>
15.30	28-Juvenile runnering in F1 hybrid strawberry and its effect on inflorescence numbers <i>Adam Dale, University of Guelph, Ontario, Canada</i>	177-Design of a new planting system to produce strawberry out of season in central Mexico. <i>Alba Jofre-y-Garfias, ENES-León, UNAM, Guanajuato, Mexico</i>	311-The Color Controllable White Flesh Strawberry Developed in the Tropics <i>Krista Huichin Yang, Qionglin, Hsinchu County, Chinese Taipei</i>
15.45	178-Study of strawberry plasticity: genotype-by-environment interactions and QTL detection for the flowering date <i>Aurèlie Petit, INVENIO, MIN de Brienne, Bordeaux, France</i>	50-Winter manipulation of photoperiod and chill to enhance the perpetual flowering nature of cv; `FD1604-Soprano®` <i>Nicole Gallace, Pcfuit vzw, Truiden, Belgium</i>	204-Comparison of sugars contents, phenylalanine ammonia lyase and invertase activities of some strawberries during ripening stages <i>Nesibe Ebru Kafkas, Department of Horticulture, Faculty of Agriculture, Adana Balcali, Turkey</i>
16.00-16.15	<i>Coffee break</i>		

	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
EIGHTH GROUP OF PARALLEL SESSIONS	BLUE LINE - GENETIC/FLOWERING	RED LINE - AROMA	ORANGE LINE - ENTOMOLOGY
16.15	233-Architecture and flower mapping as tools to describe strawberry plants <i>Francesca Massetani, H.O.R.T. Soc. Coop., Ancona, Italy</i>	76-Identification of volatile compounds of Turkish local strawberry genotypes using various extraction techniques by GC/MS <i>Nesibe Ebru Kafkas, Department of Horticulture, Faculty of Agriculture, Adana Balcali, Turkey</i>	239-Research on the influence of temperature on the strawberry blossom weevil - <i>Anthonomus rubi</i> Herbst <i>Neagu Frasin Loredana Beatrice, Romania</i>
16.30	149-Development of strawberry flower initials: Timing and response to nitrogen and temperature conditions at northern latitudes <i>Marja Rantanen, Finland</i>	132-Genetic analysis of aroma volatile compounds and the role of a (3Z):(2E)-hexenal isomerase in the development of fruit aroma <i>Amparo Monfort, IRTA, Barcelona, Cerdanyola del Vallés, Spain</i>	117-Impact of lygus bug damage in California, USA, strawberries <i>Peter Shearer, Cal Poly Strawberry Center, California, United States of America</i>
16.45	98-Comparison of strawberry flower bud differentiation in different latitudes and altitudes <i>Chuan-Fei Zhong, BJ Acad. of Forestry and Pomology Sciences, Beijing, China</i>	175-Sensory and chemical analysis of strawberry fruit: important volatiles and prediction ability for sensory characteristics and consumer preference <i>Zhen Fan, University of Florida, Wimauma, United States of America</i>	225-Effect of UV-C irradiation on cyclamen mite in strawberry <i>Justin Renkema, Agriculture and Agri-Food Canada, Vineland Station, Ontario, Canada</i>
17.00	255-Floral induction and dormancy behavior in cultivated white strawberry <i>Fragaria chiloensis</i> (L.) Mill. subsp. <i>chiloensis</i> f. <i>chiloensis</i> <i>Marina Gambardella, Facultad de Agronomia e Ingenieria Forestal, Pontificia, Universidad Catolica de Chile, Santiago, Chile</i>	219-A new phenotypic roadmap to improve strawberry aroma <i>Brian Farneti, FEM, San Michele all'Adige (TN), Italy</i>	92-Role of entomopathogenic fungi in managing strawberry diseases <i>Surendra K. Dara, UC Cooperative Extension, San Luis Obispo, CA United States of America</i>

	PLENARY ROOM
17.15	<p style="text-align: center;"> <u>GREEN LINE B</u> Cultivation Systems (open field, protected and soilless cultivation), plant nutrition, irrigation and water requirements, climate and light management, programmed production, reducing labour, harvesting technology, increasing quality. ----- Yuntao Zhang ----- GREAT CHANGES OF STRAWBERRY RESEARCH AND INDUSTRY IN CHINA AFTER 7TH ISS </p>
18.00 - 19.00	<p style="text-align: center;">POSTER SESSION</p>
20.00	<p style="text-align: center;">Gala Dinner</p>

	PLENARY ROOM
08.00	<p data-bbox="1182 427 1375 466"><u>ORANGE LINE C</u></p> <p data-bbox="607 491 1951 529">New strawberry pathogens, soil borne and plant pathogens, soil fumigation, IPM/Organic, post-harvest management.</p> <p data-bbox="1160 580 1397 619">----- Sonia Osorio Algar -----</p> <p data-bbox="835 667 1722 746">NETWORK REGULATORY ANALYSIS OF STRAWBERRY FRUITS POST-HARVEST PHYSIOLOGY REVEALED BY METABOLOMICS PROFILING</p>
08.45	<p data-bbox="1211 948 1346 986"><u>RED LINE D</u></p> <p data-bbox="499 1005 2058 1043">Fruit quality, nutrition, nutraceutical components, local market, processing, industrial products, economical impact, marketing, claims.</p> <p data-bbox="1173 1094 1384 1133">----- Stefano Predieri -----</p> <p data-bbox="768 1184 1789 1222">WHAT CAN WE LEARN FROM CONSUMER PERCEPTION OF STRAWBERRY QUALITY?</p>
09.30 - 10.00	<p data-bbox="1099 1343 1458 1382"><i>Morning break & Exhibition Visit</i></p>

	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
NINTH GROUP OF PARALLEL SESSIONS	BLUE LINE - PHYSIOLOGY	ORANGE LINE - POST HARVESTS	RED LINE - CONSUMER HEALTHY BENEFITS
10.00	<p>9-Drought Tolerance of Strawberries as Related to Reaction Type and Water Content and Redistribution in Leaves <i>Dina Shokaeva, FGBNU, Research Institute Horticultural Breeding, Russian Federation</i></p>	<p>69-Do strawberry quality properties contribute to Botrytis cinerea tolerance? <i>Hua Li, Wageningen University, The Netherlands</i></p>	<p>259-Improvement of strawberry for potential anthocyanin content and bioactive compound producing cultivars through breeding program <i>Peerasak Chaiprasart, Naresuan University, Phitsanulok, Thailand</i></p>
10.15	<p>272-IDENTIFYING STRAWBERRY CULTIVARS WITH REDUCED WATER DEMAND <i>Micol Marcellini, Università Politecnica delle Marche, Ancona, Italy</i></p>	<p>11-Metabolic and molecular adaptation of <i>Fragaria vesca</i> Mara des Bois in response to high CO2 treatments during low temperature storage and shelf-life <i>Carmen Merodio, ICTAN-CSIC, Dpt. Characterization, Quality and Security, Jose Antonio Novais, Madrid</i></p>	<p>145-Strawberry polyphenols as possible modulators of pre-adipocytes differentiation: a possible tool to control obesity onset and progression <i>T. Forbes-Hernandez, Nutrition and Food Science Group, Department of Analytical and Food Chemistry, University of Vigo, Spain</i></p>
10.30	<p>249-Effects of plant growth retardants on growth and development of strawberry cv. Pharachatan 80 <i>Daruni Naphrom, Faculty of Agriculture, Chiang Mai University, Thailand</i></p>	<p>299-Metabolomic reconfiguration of strawberry physiology in response to post-harvest practices <i>Jose Vallarino, IHSM-Universidad de Málaga, Dpto. Biolog. Mol. y Bioq. Malaga, Spain</i></p>	<p>125-The roles of strawberry on human health: a possible clue on the molecular mechanisms involved in the prevention of human chronic diseases <i>Francesca Giampieri, Dept of Clinical Sciences, Sect Biochemistry, Università Politecnica delle Marche, Ancona, Italy</i></p>
10.45	<p>97-Interaction of hormone and sugar signals during the process of dormancy release in strawberry(<i>Fragaria × ananassa</i>) <i>Yuntao Zhang, BJ Acad. of Forestry and Pomology Sciences, Beijing, China</i></p>	<p>156-Comparison of Five Essential oils on post-harvest strawberry fruit quality <i>Toktam Taghavi, Petersburg University, Virginia, United States of America</i></p>	<p>77-Organoleptic and functional characteristics of some Turkish strawberry varieties <i>Salih Kafkas, Univ. of Cukurova Fac. of Agriculture, Department of Horticulture, Adana Balcali, Turkey</i></p>

	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
TENTH GROUP OF PARALLEL SESSIONS	RED LINE - CONSUMER SCIENCE	ORANGE LINE - POST HARVESTS	ORANGE LINE - MANAGEMENT STRATEGIES
11.15	17- Is multivarietal brand a viable solution to valorize and extend marketing of strawberries? <i>Thais Mendes da Silva, UNITO - Torino, Italy</i>	65-Strawberry post-harvest shelf life is related to total acid content and fruit firmness <i>Fernando Piston, Fresas Nuevos Materiales, Huelva, Spain</i>	72-Screening strawberry cultivars and elite breeding line for susceptibility to <i>Macrophomina</i> crown rot and <i>Verticillium</i> wilt: a three-year summary <i>Gerald Holmes, California Polytechnic State University, San Luis Obispo, California, United States of America</i>
11.30	88-What we can learn from history: from small scale family strawberry production to industrial scale <i>J. Coosemans, Labo Phytopath & Plantprotection Ku Leuven, Leuven, Belgium</i>	5- Influence of different forced air cooling regimes on post-harvest quality of strawberries throughout the marketing period <i>Dr. Daniel Alexandr Neuwald, Competence Centre for Fruit Growing, Ravensburg, Germany</i>	143-Bet v 1 potential allergens are involved in anthracnose resistance in fruit crops <i>Jing Yang, Shanghai Academy of Agricultural Sciences, China</i>
11.45	243-Strawberry preferences of consumers from North-west Italy: Analysis of choice attributes <i>Stefano Massaglia, DISAFA, University of Torino, Italy</i>	284-Storage condition affect on the quality of ever-bearing strawberry cultivar 'Capri' <i>Nika Cvelbar Weber, Goreljce 2, 1433 Radece, Slovenia</i>	500-Farmer-Driven Research Design: Developing More Adoptable Research Outcomes <i>Alia DeLong, School of Natural Resources and the Environment, University of Florida, Gainesville, United States of America</i>
12.00	314-Evaluating the needs and sustainability barriers of strawberry growers in the United States: A mixed data clustering approach <i>Carlene Chase, University of Florida, Horticultural Sciences Department, Gainesville, United States of America</i>	288-DNA methylation governs the ripening of strawberry (<i>Fragaria x ananassa</i>) fruit <i>José Luis Caballero, University of Cordoba, Spain</i>	313 - Collaborative Development of a National Strawberry Research and Outreach Project for Underserved Growers. <i>Curt R. Rom, Dept. of Hort. & Forestry, University of Arkansas, United States of America</i>
12.15	GENERAL DISCUSSION	GENERAL DISCUSSION	GENERAL DISCUSSION
12.30 - 13.30	<i>Working Lunch</i>		



PLENARY ROOM

13.30

RED LINE D

Fruit quality, nutrition, nutraceutical components, local market, processing, industrial products, economical impact, marketing, claims.

Francisco A. Tomás-Barberán

ROLE OF ELLAGITANNINS IN STRAWBERRY HUMAN HEALTH EFFECTS


14.15


RED LINE D


Fruit quality, nutrition, nutraceutical components, local market, processing, industrial products, economical impact, marketing, claims.

Britt Burton Freeman

STRAWBERRIES AND THEIR POLYPHENOL METABOLITES IN GLUCOREGULATION AND VASCULAR HEALTH

	PLENARY ROOM	ROOM CASTELLO 1	ROOM CASTELLO 2
ELEVENTH GROUP OF PARALLEL SESSIONS	BLUE LINE - PHYSIOLOGY/LIGHT	ORANGE LINE - IPM/ORGANIC CULTIVATION SYSTEMS	RED LINE - FRUIT COMPOSITION
15.00	22-Flower induction by blue and far-red LED light in strawberry <i>Prisca Meyer, KU Leuven, Belgium</i>	84-Monitoring essential in application of IPM strategy strawberry <i>Jolien Smessaert, Belgium</i>	172-Jasmonate-associated anthocyanin accumulation in strawberry fruit <i>Carlos R. Figueroa, Institute of Biological Sciences, Universidad de Talca, Chile</i>
15.15	31-The effect of two light spectrums on 'Albion' strawberry propagation in an indoor propagation system <i>Ricardo Hernandez, North Carolina, United States of America</i>	91-The new IPM model for sustainable production of strawberry and other crops <i>Surendra K. Dara, UC Cooperative Extension, San Luis Obispo, CA, United States of America</i>	278-Variation of polyphenol and vitamin C fruit content induced by strawberry breeding <i>Luca Mazzoni, Università Politecnica delle Marche, Dip.Sci. Agrarie, Alimentari ed Ambientali, Ancona, Italy</i>
15.30	217-Profile of red and far-red light intensity with canopy and crown position of strawberry plant during flowering and early harvest time <i>Sung Kyeom Kim, Kyungpook National University, Korea</i>	159-Growth, Yield and Fruit Quality of Organic Day-neutral Strawberry in Field and Low Tunnel Settings in the Southeast United States <i>Sanjun Gu, North Carolina A&T State University, Greensboro, United States of America</i>	252-Changes in the content of metals of strawberry after preparation of phenolic-rich and anthocyanin-rich extracts for use in biomedicine and nutrition <i>José L. Quiles, Biomedical Research Center. Health, Granada, Spain</i>
15.45	64-The effect of light intensity and duration on photosynthetic rate, yield and quality of Everbearer and Junebearer strawberry varieties in a LED lit vertical growing system <i>Keiri Winnie Swann, University of Reading, United Kingdom</i>	201-Rotation length, crop rotation, anaerobic soil disinfestation and mustard seed meal affect organic strawberry yield and soil-borne disease incidence in California <i>Margherita Zavatta, California, United States of America</i>	42-Role of genetic structure on some quality parameters in strawberry cultivars <i>Mehmet Ali Saridas, University of Cukurova, Faculty of Agriculture, Adana, Turkey</i>
16.00-16.15	<i>Coffee break</i>		

	PLENARY ROOM
16.15-17.00	<p style="text-align: center;"> <u>RED LINE D</u> Fruit quality, nutrition, nutraceutical components, local market, processing, industrial products, economical impact, marketing, claims. ----- Daniele Del Rio ----- STRAWBERRY POLYPHENOLS: METABOLISM IN HUMANS AND PUTATIVE BIOLOGICAL ACTIVITIES </p>
17.00-17.30	<p style="text-align: center;"><i>Closure</i></p>
17.30-18.30	<p style="text-align: center;"><i>ISHS Business Meeting</i></p>

	MACFRUT
10.00	Symposium CIVI - Italia (inter-professional centre for nursery activities)
11.30	Symposium CBC Biogard
12.00	<i>Lunch</i>
13.30	Symposium Novasiri
14.30	Symposium Planasa
15.30	<i>Farewell break and end of the symposium</i>