

# Preliminary program



**VI International  
Symposium  
on Fig**

2nd-5th September 2019, Rovinj



Day and date	Time			
Monday, 2/9/2019	REGISTRATION	8:00-9:00		
	OPENING	9:00-9:40		
	INVITED LECTURE	9:40-10:20	<b>AUTHORS</b>	<b>TITLE</b>
		9:40-10:20	Moshe A. Flaishman	Fresh fig industry: Progress and challenges
	COFFEE BREAK	10:20-10:50		
	LECTURES Session 1 - <b>Biodiversity, Genetic Resources, Genomics, and Transcriptomics</b>	10:50-12:50	<b>AUTHORS</b>	<b>TITLE</b>
	<b>Moderators: Danijela Poljuha &amp; Moshe Flaishman</b>	10:50-11:10	John E. Preece, Malli Aradhya	Analyses of the amount and pattern of distribution of genetic diversity in the USDA-ARS National Clonal Germplasm Repository, Davis, California fig germplasm collection
		11:10-11:30	Irina Mitrofanova, Olga Mitrofanova, Nina Lesnikova-Sedoshenko, Natalya Ivanova, Tatyana Kuzmina, Svetlana Chelombit	Creation of <i>Ficus carica</i> in vitro germplasm collection in the Nikita Botanical Gardens
		11:30-11:50	Tatjana Kokaj	Investigation and value of qualitative and quantitative characteristics of 10 genotypes figs
		11:50-12:10	Florin Stanica, Ana Cornelia Butcaru, Adrian Ctin. Asanica, Cosmin Alex. Mihai	Selection of several fig genotypes ( <i>Ficus carica</i> L.), from the Romanian fig populations assessment
	12:10-12:30	Erol Aydin, Nilufer Aksu Uslu, Ercan E.R., Muharrem Ozcan	Pomologic characteristic of some figs types obtained by selection in province Artvin, Giresun and Ordu	

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	12:30-12:50	Vitale Nuzzo, Davide Amato, Nunzio Briglia, Giuseppe Montanaro	Morphometric characterization of some local fig cultivars grown in Southern Italy
LUNCH	12:50-13:50		
POSTER Session 1 - <b>Genetic variability and resources &amp; Plant(eco)physiology and propagation</b>			
	13:50-14:20	<b>AUTHORS</b>	<b>TITLE</b>
<b>Moderators: Danijela Poljuha &amp; Moshe Flaishman</b>			
	1	Paolo Belloni	A collection of germplasm of <i>Ficus carica</i> in Puglia (South-East Italy), available for scientific studies
	2	Tiziano Caruso, Rocco Mafrica, Marcello Bruno, Alessandra De Bruno, Amalia Piscopo, Marco Poiana	Cultivar and accessions of fig ( <i>Ficus carica</i> L.) for breba production selected within the autochthonous germplasm of Calabria (South Italy)
	3	Giuseppe Ferrara, Andrea Mazzeo, Roberto Terzano, Carlo Porfido, Agata Gadaleta	Anatomical and genetic characteristics of fruit buds of main crop and breba
	4	Danijela Poljuha, Ines Kralj, Marin Krapac, Tatjana Klepo, Mira Radunic, Frane Strikic, Alenka Arbeiter, Matjaz Hladnik, Dunja Bandelj	Analysis of genetic diversity in Croatian fig ( <i>Ficus carica</i> L.) germplasm using SSR markers
	5	Gabriele Usai	A long-read phased assembly of the highly heterozygous fig ( <i>Ficus carica</i> L.) genome reveals epigenetic patterns
	6	Irina Mitrofanova, Olga Krivenko, Olga Kuleshova, Elina Chelebieva, Ekaterina Vodiasova, Olga Mitrofanova	Development of protoplast isolation method in some cultivars of <i>Ficus carica</i> as crucial stage for implementation of single-cell RNA-seq technology in plant investigation

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	7	Aroua Ammar, Imed Ben Aissa, Mohamed Gouiaa, Messaoud MARS	Effect of irrigation shortage on gas exchange capacity of San Pedro fig type
	8	Julian Bartual, Manuel Ortiz, Julio Garcia	Effects of rootstock and rest breaking agents on early ripening and fruit quality of 'Colar' fig ( <i>Ficus carica</i> L.) in southeast Spain
	9	Tosho Arsov, Nikola Saraginovski	Effect of auxin phytohormones on the rooting of some local populations of fig ( <i>Ficus Carica</i> L.) from North Macedonia
<b>LECTURES Session 2 - Biodiversity, Genetic Resources, Genomics, and Transcriptomics</b>			
<b>Moderators: Dunja Bandelj &amp; John E. Preece</b>			
14:20-16:00	<b>AUTHORS</b>	<b>TITLE</b>	
14:20-14:40	Kumar Lama, Reut Peer, Moshe Flaishman	Ripening regulation and quality characterizations of fresh fig ( <i>Ficus carica</i> L.)	
14:40-15:00	Gabriele Usai, F. Mascagni, T. Giordani, A. Vangelisti, E. Bosi, A. Zuccolo, M. Ceccarelli, R. King, K. Hassani-Pak, L. Solorzano Zambrano, A. Cavallini, L. Natali	High-quality, haplotype-phased de novo assembly of the highly heterozygous fig genome, a major genetic resource for fig breeding	
15:00-15:20	Reut Peer, Hadas Shafran-Tomer, Oded Cohen, Kumar Lama, Moshe A. Flaishman	Genome editing: CRISPR/Cas9 approaches of <i>Ficus carica</i>	
15:20-15:40	Kenta Shirasawa, Hiroshi Yakushiji, Hidetoshi Ikegami, Takeshige Morita, Shota Jikumaru, Atsushi Toyoda, Hideki Hirakawa, Sachiko Isobe	Genome sequence analysis on <i>Ficus carica</i> and <i>F. erecta</i> for the <i>Ceratocystis canker</i> resistance breeding programs in fig	
15:40-16:00	Miaoyu Song, Ziran Wang, Hui'qin Ma	Molecular analysis of anthocyanin biosynthetic pathway in fig peel during fruit ripening and functional study of FcMYB114 gene	

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COFFEE BREAK	16:00-16:30		
<b>LECTURES Session 3 - Plant (eco) physiology and propagation</b>	16:30	<b>AUTHORS</b>	<b>TITLE</b>
<b>Moderators: Tiziano Caruso &amp; Iva Prgomet</b>	16:30-16:50	Giovanni Caruso, Giacomo Palai, Desire' Macheda, Fausto Marchini, Letizia Tozzini, Antonio Minnocci, Luca Sebastiani, Mike Frank Quartacci, Riccardo Gucci	Physiological mechanisms of adaptation of young fig plants to salinity
	16:50-17:10	Rubayet Ara, S. A. Kamal Uddin Khan	Effect of rooting substrates and cutting types in propagation of fig ( <i>Ficus carica</i> )
	17:10-17:30	Tiziano Caruso, Rocco Mafrica, Marcello Bruno, Domenico Fratia, Rosa Vescio, Agostino Sorgonà	Effects of treatments of arbuscular mycorrhizal fungi on the 2-D architectural traits of rooted cuttings of two fig ( <i>Ficus carica</i> L.) cultivars
	17:30-17:50	Athanasia Karantzi, Mina Kafkaletou, Miltiadis Christopoulos, Anastasios Sakellaridis, Eleni Tsantili	Physicochemical traits during fruit development of the two main Greek fig ( <i>Ficus carica</i> L.) fruit varieties destined to fresh market
	17:50-18:20	General discussion	
<b>WELCOME RECEPTION - Fig Cultivars &amp; Art Exhibition</b>	18:20-19:30		

Tuesday, 3/9/2019	INVITED LECTURE	9:30-10:10	<b>AUTHORS</b>	<b>TITLE</b>
		9:30-10:10	Uygun Aksoy	Dried fig industry: Progress and challenges
	<b>LECTURES Session 4 - Fruit quality and postharvest technology</b>	10:10-11:50	<b>AUTHORS</b>	<b>TITLE</b>
	<b>Moderators: Uygun Aksoy &amp; Karolina Brkić Bubola</b>	10:10-10:30	Iva Prgomet, Zeljko Prgomet, Dean Ban, Josipa Perkovic, Dario Donno, Igor Palcic, Smiljana Goreta Ban, Nikola	Antioxidant activity, sugar and phenolic content of fresh fig ( <i>Ficus carica</i> L.) fruits commonly grown in Croatia

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Major			
10:30-10:50	Miro Barbaric, Marko Ivankovic, Marija Prlic		Evaluation of the organoleptic characteristics of the fig fruits "Petrovača bijela" from Herzegovinian area
10:50-11:10	Giuseppe Sortino, Vittorio Farina, Paolo Inglese, Alessandra Gallotta, Alessio Allegra		Postharvest Quality and Sensory Attributes of Organically Grown <i>Ficus carica</i> L.
11:10-11:30	Birgul Ertan, Ozlem Tuncay, Selim Arpaci		Determination of quality losses during the transportation of some table figs varieties
11:30-11:50	Alessio Allegra, Vittorio Farina, Alessandra Gallotta, Paolo Inglese, Giuseppe Sortino		The use the MAP for maintaining quality of fig fruits cv 'Bifara'
COFFEE BREAK		11:50-12:10	
LECTURES Session 5 - <b>Fruit quality and postharvest technology</b>			
<b>Moderators: Branka Levaj &amp; Nikola Major</b>		<b>AUTHORS</b>	<b>TITLE</b>
12:10-12:30	Amayogi Kurubar		Effect of Aloe vera gel and chemicals coating on post-harvest biochemical properties of Fig ( <i>Ficus carica</i> L.) fresh Fruits
12:30-12:50	Amayogi Kurubar		Post-harvest fruit treatment with aloe vera gel on physiological, microbial infections and sensory attributes of fig ( <i>Ficus carica</i> L. Poona fig) fresh fruits
12:50-13:10	Alessio Allegra, Vittorio Farina, Alessandra Gallotta, Paolo Inglese, Giuseppe Sortino		Qualitative traits and shelf life of fig fruit (cv Melanzana) treated with Aloe Vera gel coating
13:10-13:30	Branka Levaj, Verica Dragovic-Uzelac, Sanja Loncaric, Maja Repajic		Fig freezing in sugar solution: quality and sensory during storage

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LUNCH		13:30-14:30	
POSTER Session 2 - <b>Fruit quality and postharvest technology</b>			
	14:30-15:10	AUTHORS	TITLE
<b>Moderators: Branka Levaj &amp; Nikola Major</b>			
1		Karolina Brkic Bubola, Elvino Setic, Marin Krapac, Anja Novoselic	Preliminary characterization of morphological and sensorial profile of the fresh fig ( <i>Ficus carica</i> L.) fruits obtained from four Croatian cultivars
2		Berta Gonçalves, Iva Prgomet, Alice Vilela, Nuria Pascual Seva, Zeljko Prgomet	Fresh fig ( <i>Ficus carica</i> L.) varieties grown in Croatia: sensory attributes and pomological characteristics
3		Branka Levaj, Zdenka Pelaic, Maja Repajic, Sandra Pedisic	Effect of freezing procedure on polyphenol and sugar contents of fig ( <i>Ficus carica</i> L.) during storage
4		Branka Levaj, Verica Dragovic-Uzelac, Sandra Pedisic, Ivona Elez Garofulic, Sanja Loncaric, Nada Vahcic, Maja Repajic	Effect of ripening stage, pectin edible film and packaging conditions on fig ( <i>Ficus carica</i> L.) quality and shelf-life
5		Ana Isabel Galván, Margarita López-Corrales, María de Guía Córdoba, Alejandro Hernández, Guadalupe Domínguez, Manuel Joaquín Serradilla	Application of microperforated films for preservation of 'Dalmatie' figs ( <i>Ficus carica</i> L.)
6		Nikola Major, Iva Prgomet, Zeljko Prgomet, Dean Ban, Igor Palcic, Josipa Perkovic, Smiljana Goreta Ban	Antioxidant activity, phenolic and sugar content of light and dark dried fig ( <i>Ficus carica</i> L.) varieties grown in Croatia
7		Ana Isabel Galván Romero, Manuel Joaquín Serradilla Sánchez, Margarita López Corrales, Alberto Martín, Santiago Ruíz-Moyano, María de Guía Córdoba Ramos	Effect of the application of different storage temperatures with active modified atmospheres on the shelf life of dried figs

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		8	Branka Levaj, MarijaGabrijela Bogovic, Josipa Bilobrk, Sven Karlovic, Danijela Bursac-Kovacevic	Evaluation of polyphenols, textural and sensory characteristics in dried figs from the Croatian market
		9	Dhekra Lachtar, Faten Zaouay, Cristina Pereira, Alberto Martin, Jameleddine Ben Abda, Messaoud MARS	Organoleptic characteristics of dried figs following different solar drying techniques
		10	Ibrahim Mujic, Huska Jukic, Bojan Sarkanj, Zeljko Prgomet, Silvija Zec Sambol	Mycotoxin content in dried autochthonous figs Saraguja and Petrovaca Bijela
		11	Hidetoshi Ikegami, Hideyuki Suzuki, Masaru Sato, Kenta Shirasawa, Shuichi Himeno, Hitoshi Nogata	Gas chromatography–mass spectrometry analysis of volatiles of two Japanese cultivars of fig for flavor breeding
		12	Florin Stanica, Carmen Constantin, Ana Cornelia Butcaru, Adrian Ctin. Asanica, Cosmin Alex. Mihai	Biochemical assessment of some extracts derived from leaves and fruit of <i>Ficus carica</i> L.
<b>LECTURES Session 6 - Fruit quality and postharvest technology</b>				
			<b>AUTHORS</b>	<b>TITLE</b>
			<b>Moderators: Giuseppe Sortino &amp; Huiqin Ma</b>	
	15:10-16:10	15:10-15:30	Marzia Ingrassia, Pietro Columba, Stefania Chironi, Alessio Allegra, Giuseppe Sortino	Study on consumer preferences for quality attributes of fig fruit after storage at home temperature
	15:30-15:50	15:30-15:50	Selim Arpaci, Erdem Cicek, Ramazan Konak, Nilgun Tan, Gul Kuruoglu Asci	Research of different preservation and storage techniques on semi dried figs
	15:50-16:10	15:50-16:10	Uygun Aksoy, Fatih Sen, Betul Kamer ozer, Hakki Zafer Can, Ramazan Konak	Effect of altitudes on physical and chemical properties of sun-dried fig ( <i>Ficus carica</i> cv. Sarilop) fruit
	16:10-16:30	16:10-16:30	Branka Levaj, Zdenka Pelaic, Zrinka Cosic, Zoran Zoric, Sandra Pedisic, Maja Repajic	Overview of food products fortified with dried fig; minimally processed and fig filled potato
	COFFEE BREAK	16:30-17:00		

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		17:00-17:30	General discussion	
	Gala dinner	20:00		
Wednesday, 4/9/2019	Field-trip	09:00	Departure from Rovinj (meeting point: Lone hotel lobby/entrance)	
		10:30-12:30	Arrival to Savudrija (Hrvatske šume)	
			Planned visit to 4 ha fig orchard	
			Coffee break	
		12:30	Departure to Motovun	
		13:30-15:00	Tour of Motovun	
		15:00	Departure to "Konoba Bani", Pazin	
		15:45-19:00	Lunch in "Konoba Bani"	
		19:00	Departure for Rovinj	
Thursday, 5/9/2019	<b>LECTURES Session 7 - Fig production and orchard management</b>	9:00-10:40	<b>AUTHORS</b>	<b>TITLE</b>
	<b>Moderators: Louise Ferguson &amp; Marin Krapac</b>	9:00-9:20	Christian Vera Ponce	'Figs with history': a gastronomic and historical immersion through Europe and Perú
		9:20-9:40	Huiqin Ma	The fig production, research and development in China
		9:40-10:00	Carlos H. Crisosto, Louise Ferguson, Themis J. Michailides, Margarita López Corrales, Gayle Crisosto	Developing the California fresh fig industry
		10:00-10:20	Karla Stockli	California dried and fresh fig ( <i>Ficus carica</i> ) industries: production and innovative



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		marketing activities
	10:20-10:40	Phoebe Gordon, John Preece, Louise Ferguson, Malli Aradhya, Maxwell Norton, Howard Garrison, Chris DeBenedetto Field evaluation of new and underutilized fig cultivars for fresh and dried markets
COFFEE BREAK	10:40-11:00	
<b>POSTER Session 3 - Fig production and orchard management</b>	11:00-11:30	
<b>Moderators: Louise Ferguson &amp; Marin Krapac</b>		
	1	Pablo Bañuls, Marco Antonio Manzano, Fernando Pérez Gragera, Guadalupe Domínguez, Manuel Joaquín Serradilla, Ana Isabel Galván Romero, Margarita López Corrales Agronomic evaluation and fruit quality of fig tree variety collection in the Jerte Valley (Spain)
	2	Uygun Aksoy, Fatih Sen, Betul Kamer ozer, Hakki Zafer Can, Ramazan Konak, Hakki Zafer Can Effect of yearly conditions on sugar composition of fresh, partially dried and sun-dried fig fruit
	3	Davide Neri, Enrico Maria Lodolini Pruning fig ( <i>Ficus carica</i> L.) during the early stages after planting
	4	Marin Krapac, David Gluhic, Smiljana Goreta Ban, Marko Petek, Nikola Major, Zoran Užila, Igor Palcic The influence of potassium foliar application on mineral content of fig ( <i>Ficus carica</i> L.) leaves and fruits
	5	Valentina Brailko, Oksana Grebennikova, Yury Plugatar Biochemical aspects of fig plants adaptation to low temperatures
	6	Hamid Zare, Ebrahim Zare, Sahar Sedaghat, Jafari Moslem Investigation of different horticultural practices to minimize drought impacts in rainfed fig ( <i>Ficus carica</i> L. cv. Sabz)
	7	Iva Prgomet, Nikola Major, Zeljko Prgomet, Dean Ban, Josipa Perkovic, Improving total antioxidant activity of fresh fig fruits ( <i>Ficus carica</i> L.) by irrigation

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Igor Palcic, Smiljana Goreta Ban			
<b>LECTURES Session 8 - Fig production under climate change</b>	11:30-13:50	<b>AUTHORS</b>	<b>TITLE</b>
<b>Moderators: Carlos H. Crisosto &amp; Smiljana Goreta Ban</b>	11:30-11:50	Ana Isabel Galván Romero, Pérez Gragera Fernando, Manuel Joaquín Serradilla, María de Guía Córdoba Ramos, Guadalupe Domínguez, Margarita López Corrales	Agronomic behaviour and fruit quality attributes of three dried fig varieties in super high-density system
	11:50-12:10	Jafari Moslem, Majid Rahemi	Canopy management in fig trees by rootstock usage
	12:10-12:30	Badii Gaaliche, Jihene Ben Yahmed, Haifa BenMoussa, Mehdi Ben Mimoun	Does caprifigs position in the tree canopy affects fig ( <i>Ficus carica</i> L.) yield and fruit quality?
	12:30-12:50	Selim Arpacı, Mehmet Ali Kargıcak, Pinar Gorucuoglu	Comparison the growth and yield values of some fig cultivars under irrigated conditions
	12:50-13:10	Yahia Mohamed, Islam Mohamed ElBerry	Alleviation of drought stress on rainfed Fig ( <i>Ficus carica</i> , L.) trees in Egypt using the foliar application of ascorbic and citric acids
<b>LUNCH</b>	13:10-14:10		
<b>LECTURES Session 9 - Pest and disease management</b>	14:10-14:50	<b>AUTHORS</b>	<b>TITLE</b>
<b>Moderators: Hidetoshi Ikegami &amp; Darko Voncina</b>	14:10-14:30	Toufic Elbeaino, Michele Digiaro	Fig-infecting viruses: state of the art
	14:30-14:50	Elisabetta Gargani, Ilaria Cutino, Agostino Strangi, Giuseppe Mazza, Claudia Benvenuti, Riccardo Frosinini,	<i>Aclees</i> cf. <i>sp. foveatus</i> , a real threat to <i>Ficus carica</i> in the Mediterranean area

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Gian Paolo Barzanti			
POSTER - Session 4 -Pest and disease management	14:50-15:10	AUTHORS	TITLE
<b>Moderators: Hidetoshi Ikegami &amp; Darko Voncina</b>	1	Maria Gonçalves	Evaluation of food attractants for the black fig fly in Southern Portugal
	2	Elisabetta Gargani, Ilaria Cutino, Gian Paolo Barzanti, Claudia Benvenuti, Riccardo Frosinini, Enrico Maria Lodolini, Emilia Caboni, Katya Carbone	The black weevil of the fig tree ( <i>Aclees</i> sp. cf. <i>foveatus</i> ): control trials with plant extracts
	3	Valentina Brailko, Irina Mitrofanova, Yury Plugatar, Svetlana Chelombit, Sergey Chirkov, Olga Mitrofanova	Morphological and anatomical changes in leaves of some cultivars in <i>Ficus carica</i> L. damaged with viral diseases
	4	Tihomir Milicevic, Darko Voncina	Occurrence of plant pathogens and diseases incidence on fig tree in Croatia
	5	Silvia Di Silvestro, Maria Concetta Strano, Filippo Ferlito, Biagio Francesco Torrisi, Maria Allegra, Enrico Maria Lodolini, Salvatore Bella	Detection and characterization of a new fungal disease emergency on fig ( <i>Ficus carica</i> L.) in Sicily
	6	Patricia Calvo, María Soledad Blanco, María José Rodríguez, Manuel Joaquín Serradilla, Francisco Sánchez	In vitro and in vivo antifungal activity of allyl isothiocyanate (AITC) against <i>Penicillium expansum</i> in figs ( <i>Ficus carica</i> L.)
General discussion and closing	15:10-15:40		
Business meeting	15:40-16:20		