

VII SOUTH-EASTERN EUROPE SYMPOSIUM ON VEGETABLES AND POTATOES

Maribor (hotel Habakuk), Slovenia

June 20–23, 2017

TUESDAY, 20. 06. 2017	
19.00–20.00	WELCOME RECEPTION

SCIENTIFIC PROGRAM, 21. 06. 2017 - Minařik hall

WEDNESDAY, 21.06.2017			
8.00–9.30	CHAIR	REGISTRATION	
9.30–10.15	Martina Bavec	Opening speeches: Dr. Andrej Fiřtravec, mayor of the city of Maribor Prof. dr. Branko Kramberger, Dean of the Faculty of Agriculture and Life Sciences, University of Maribor Prof. dr. Silvana Nicola, vice-president ISHS Mr. Avetik Nersisyan, representative of FAO, Rome Mr. Stanko Volk, president of vegetable growers association Pikapolonica State secretary Tanja Strniřa, M.Sc., Ministry of Agriculture, food and forestry, Slovenia	
10.15–12.15		INVITED LECTURES	Presenting author
	Franc Bavec & Silvana Nicola	Quality of vegetables and potatoes from the organic production	Ewa Rembalkowska
		Specifics of vegetable production for processing	Zdravko Matotan
		Origin and production method traceability of vegetables with stable isotopes – from science to practice	Sonja Lojen
		Protected vegetables in South-East Europe	Nazim Gruda
12.15–13.15		Lunch break	
13.15–13.45		Poster program – topic Nr.1 /parallel: FAO WORKSHOP	
13.45–15.00		TOPIC NR. 1: PRODUCTION SYSTEMS AND QUALITY OF VEGETABLES & POTATOES/ parallel: FAO WORKSHOP	
	Silva Grobelnik Mlakar & Zoran Ilić	Impact of plant density on capsaicinoid production of high pungent pepper (<i>Capsicum chinense</i> Jacq.) under control house	Suchila Techawongstien
		Contamination of aflatoxin in dried chili products during storage in Thailand	Sungcom Techawongstien
		Mineral profile of lettuce and green onion	Zoran Ilić
		Summer production of lettuce under shading conditions	Zoran Ilić
		Accumulation of capsinoids and capsaicinoids in three <i>Capsicum</i> species during fruit growth	Tanyarat Tarinta
15.00–15.30		Coffee break	
15.30–16.15		Poster program – topic Nr. 7 and 8 / parallel: Networking for further project collaborations in SEE	
16.15–17.30		TOPIC NR. 7: GENETIC RESOURCES AND BREEDING / parallel: Networking for further project collaborations in SEE	
	Ana Slatnar & Astrit Balliu	Cytogenetic study of onion (<i>Allium cepa</i> L.) by physical mapping of ESTs	Dmitry Romanov
		Phenotypic responses of putative resistance chili cultivars infected by PeplCV with viruliferous whitefly transmission	Yanisa Sangsotkaew
		Breeding prospective of common bean (<i>Phaseolus vulgaris</i> L.) for Central and South-Eastern European production area	Barbara Pipan
		Comparison of selected traits of sweet fennel (<i>Foeniculum vulgare</i> var. dulce Alef.) cultivars	Ana Slatnar
		Fertility restoration and breeding of garlic: recent advances	Rina Kamenetsky
17.30–18.30		TOPIC NR. 8: POTATO / parallel: ISHS business meeting	
	Mehdi Nasr Esfahani & Peter Dolničar	Breeding new potato varieties suitable for Balkan region at Agricultural Institute of Slovenia	Peter Dolničar
		Efficiency of foliar applications of potassium sulphate on potato and vegetable production	Michel Marchand
		Do varietal differences in the morphological traits of potato tubers affect histological and physiological traits of the starch granules?	Takashi Nishizawa
		Exploring biophysical components in rain-fed potato systems in the Peruvian Central Andes	Diego Grados

POSTER PROGRAM, 21. 06. 2017

WEDNESDAY, 21. 06. 2017		Presenting author
13.15–13.45	Poster program – topic Nr.1: PRODUCTION SYSTEMS AND QUALITY OF VEGETABLES & POTATOES	
1.1	The effect of farming system and variety on the yield, morphometric characteristics and chemical composition of carrot (<i>Daucus carota</i> L.)	Nina Kacjan Maršić
1.2	Pesticide residues in vegetables on Slovene farms and market	Martina Bavec
1.3	Quantification of volatile compounds in "aromatic" and "non-aromatic" Italian strawberry populations by means of solid phase microextraction (SPME) and gas chromatography-mass spectrometry (GC-MS)	Federico Ferioli
1.4	Evaluation of cysteine sulfoxides and volatile compounds in local garlic (<i>Allium sativum</i> L.) and elephant garlic (<i>Allium ampeloprasum</i> L.) populations from northern and central Italy	Federico Ferioli
1.5	Geographical authentication of potato using multi-elemental fingerprint and stable isotope ratio analysis	Anja Mahne Opatič
1.5	Quality changes of fresh and then microwaved minimally processed faba seeds	Francisco Artés
1.6	GAP for reducing wastage and increasing profitability on vegetable production	Silvana Nicola
15.00–15.30	Coffee break	
15.30–16.05	Poster program – topic Nr. 7: GENETIC RESOURCES AND BREEDING	
7.1	General combining ability analysis of sex expression, fruit and seed characteristics in melon (<i>Cucumis melo</i> L.)	Zdenka Girek
7.2	Investigation on mung bean yield and quality related to different cultivation systems	Petre Marian Brezeanu
7.3	Studies on documentation, evaluation and use of <i>Cucurbita moschata</i> Duchesne genetic resources	Petre Marian Brezeanu
7.4	Agronomical traits of different cultivars of oil seed pumpkins (<i>Cucurbita pepo</i> L. group Pepo) and some nutritional characteristics of seeds, oil cakes and pumpkin oils	Lovro Sinkovič
7.5	The assessment of Albanian pea and faba bean genotypes based on principal component analyses for yield and protein content	Astrit Balliu
7.6	Effects of genotypes, plant density and N rates on yield and quality of spinach	Youssef Rouphael
7.7	Agronomic traits of savoy cabbage varieties in autumn production	Mojca Škof
16.05–16.15	Poster program – topic Nr. 8: POTATO	
8.1	<i>Colletotrichum coccodes</i> ' the covert enemy of potatoes?	Karina Eva Hauer
8.2	Identification of <i>Ulocladium atrum</i> causing potato leaf spot disease in Iran	Mehdi Nasr Esfahani

FAO WORKSHOP, 21. 06. 2017 – Primožič hall

WEDNESDAY, 21. 06. 2017		
13.15–15.00	FAO WORKSHOP	
	INTRODUCTION	
13.15–13.30	Nazim Gruda, Wilfried Baudoin and Avetik Nersisyan	
	WORKSHOP	
13.30–13.35	Structures: design, technology and climate control	Constantinos Kittas
13.35–13.40	Soil preservation, soil fertility and plant nutrition management	Dimitris Saavas
13.40–13.45	Irrigation management: challenges and opportunities	Stefania De Pascale
13.45–13.55	Crop diversification, management and practical uses + Tomato	Yüksel Tüzel
13.55–14.05	Seedling production and early production of melon, watermelon and squashes in low tunnels	Astrit Balliu
14.05–14.10	Production systems: integrated and organic production and soilless culture	Gordana Popsimonova
14.10–14.15	Sustainability of vegetable production systems evaluated by ecological footprint	Martina Bavec
14.15–14.20	Profitability, marketing and vegetable loss and waste	Silvana Nicola
14.20–14.25	Cucumber	Nazim Gruda
14.25–14.30	Lettuce and other leafy vegetables	Nina Kacjan Maršič
14.35–14.45	French bean, kohlrabi and kale	Božidar Benko
14.45–14.50	Early potato	Žarko Ilin
14.50–15.00	Discussion	

NETWORKING FOR FURTHER PROJECT COLLABORATIONS, 21. 06. 2017 – Primožič hall

WEDNESDAY, 21. 06. 2017	
15.30–17.30	Chairs: Martina Bavec, Nazim Gruda & Silvana Nicola
15.30–16.00	Speed dating
16.00–17.30	What can we do together? Past experiences and future possibilities: inputs from participants of ISHS, FAO, ENOAT, COST action, Horizon, Core organic Cofound, Erasmus....

ISHS BUSINESS MEETING, 21. 06. 2017 – Primožič hall

WEDNESDAY, 21. 06. 2017	
17.30–18.30	Chairs: Silvana Nicola, Yüksel Tüzel & Božidar Benko
	Agenda: Election of a new Chair of the WG Voting about next symposium venue Other issues

SCIENTIFIC PROGRAM, 22. 06. 2017 – Priol hall

THURSDAY, 22. 06. 2017			
8.00–9.00		REGISTRATION	
9.00–10.00	CHAIR	TOPIC NR. 2: ORGANIC VEGETABLES & POTATOES PRODUCTION	Presenting author
	Maja Manojlović	Growing media in organic seedling production	Yüksel Tüzel
	&	Trace elements in soils and vegetables on organic farms in Serbia	Maja Manojlović
	Johannes Balas	Evaluation of carrot cultivars for irrigated organic farming	Johannes Balas
		Heavy metal contents in organic baby-food-carrots	Johannes Balas
10.00–10.30		Coffee break	
10.30–11.00		Poster program – topic Nr. 2, 3	
11.00–11.15		TOPIC NR. 3: SHORT SUPPLY CHAINS AND OTHER CONCEPTS OF VEGETABLES & POTATOES MARKETING	
		Profit efficiency estimation of tomato farms in Kosovo	Iliriana Miftari
11.15–11.30		TOPIC NR. 4: PROTECTED CULTIVATION AND GAP OF GREENHOUSE PRODUCTION ON SMALL FARMS	
	Kristina Ugrinović	Training of soil grown cherry tomato in the open field and in the tunnel	Kristina Ugrinović
11.30–11.45		Technologies and techniques for sustainable greenhouse production in Slovenia	Nikolaos Katsoulas
11.45–12.45		TOPIC NR. 9: PLANT PROTECTION	
	&	Using trap crops to manage plant parasitic nematodes on vegetable crops	Becky Westerdahl
		Prevention and control of nematodes and soil borne diseases by grafting peppers	Marian Bogoescu
	Becky Westerdahl	Treatment guidelines for early blight disease of potato <i>Alternaria solani</i> and <i>A. alternata</i>	Mehdi Nasr Esfahani
12.45–13.45		Lunch break	
13.45–14.45		Poster program – topic Nr. 4,6	
14.45–16.15		TOPIC NR. 6: IRRIGATION AND PLANT-WATER RELATIONS	
	Rozalija Cvejić	Deficit irrigation and its potential for yield and potato quality in humid climates	Rozalija Cvejić
	&	Configuration of basil quality and aroma profile in response to cultivar, cut number and salinity source	Youssef Roupheal
	Ivan Manolov	The uptake of selenium and iodine in chicory (<i>Cichorium intybus</i> L.) after foliar spraying	Ana Kroflič
		Differences in the mode of salt tolerance between self-rooted and grafted tomato cultivars and their impact on modeling NaCl accumulation in a closed hydroponic system	Dimitrios Savvas
		Response of potatoes to fertilizer application and nutrient use efficiency in Bulgaria	Ivan Manolov
		Effect of deficit irrigation and soil water content on tomato yield in the peruvian semi-arid coastline	Ximena Reynafarje
16.15–16.45		Coffee break	
16.45–17.30		Poster program – topic Nr. 9, 10	
20.00–...		Gala dinner	

POSTER PROGRAM, 22. 06. 2017

THURSDAY, 22. 06. 2017		
10.30–10.50	Poster program – topic Nr.2: ORGANIC VEGETABLES & POTATOES PRODUCTION	Presenting author
2.1	Drip application of a biopolymer-based biostimulant enhances root growth and nutrient uptake of processing tomato	Youssef Roupael
2.2	Impact of soil cover and manure application on soil moisture, mineral nitrogen and lettuce (<i>Lactuca sativa</i> L. subsp. <i>secalina</i>) yield in organic farming	Maja Manojlović
2.3	SoilVeg - Improving soil conservation and resource use in organic cropping systems for vegetable production through introduction and management of Agro-ecological Service Crops	Martina Bavec
2.4	Biostimulants affect quality and yield of tomato fruits from open-field production	Johannes Balas
10.50–11.00	Poster program – topic Nr. 3: SHORT SUPPLY CHAINS AND OTHER CONCEPTS OF VEGETABLES & POTATOES MARKETING	
3.1	Estimation of the vegetable production on allotment gardens in Ljubljana and London	Rozalija Cvejić
3.2	Perspective tomato landraces for fresh consumption in the Republic of Macedonia	Gordana Popsimonova
3.3	Evolution of the potato (<i>Solanum tuberosum</i> L.) market in Argentina (Ex aequo)	Ana María Castagnino
12.45–13.45	Lunch break	
13.45–14.25	Poster program – topic Nr. 4: PROTECTED CULTIVATION AND GAP OF GREENHOUSE PRODUCTION ON SMALL FARMS	
4.1	Seedling production	Astrit Balliu
4.2	GAP recommendations for permanent and temporary protection system – early potato production	Žarko Ilin
4.3	GAP recommendations for improving sustainability on small-scale farm greenhouse vegetable production	Martina Bavec
4.5	Potential decrease of ecological impact in greenhouse production of tomato by introducing renewable energy sources	Denis Stajanko
4.6	Improving greenhouse production of French bean, kohlrabi and kale by GAP implementation	Božidar Benko
4.7	Early greenhouse production of male genotypes of green asparagus (<i>Asparagus officinalis</i> var. <i>altilis</i> L.) in their seventh production year in the Province of Buenos Aires, Argentina	Ana María Castagnino
4.8	Production systems in SEE greenhouses	Gordana Popsimonova
4.9	Adapt2Change: The semi-closed greenhouse	Nikolaos Katsoulas
4.10	Screenhouses as a cropping system alternative to open field cultivations	Nikolaos Katsoulas
14.25–14.45	Poster program – topic Nr. 6: IRRIGATION AND PLANT-WATER RELATIONS	
6.1	Spinach production in cocopeat: Effects of plant density and the number of emitters on plant growth and nitrate concentration	Rui Machado
6.2	Impact of different rhizobial strains and reduced N supply on growth and biological N ₂ -fixation in cowpea grown hydroponically	Dimitrios Savvas
6.3	Production of <i>Valeriana officinalis</i> roots in different soil structure in East Albania	Nazim Gruda
6.4	Soil water management for vegetables in greenhouse conditions	Harun Kaman
6.5	Effect of water reduction rate on vegetables	Harun Kaman
16.15–16.45	Coffee break	
16.45–16.55	Poster program – topic Nr. 9: PLANT PROTECTION	
9.1	Relation between phosphorus fertilisation and protection of lettuce against <i>Bremia lactucae</i>	Christiane Raynal-Lacroix
9.2	Physiological races and genetic diversity of <i>Fusarium oxysporum</i> f.sp. <i>melonis</i> in Iran	Mehdi Nasr Esfahani
16.55-17.30	Poster program – topic Nr. 10: GENERAL AND OTHER TOPICS	
10.1	The effects of suboptimal environment temperatures during and immediately after germination on the morphology of root system in pea (<i>Pisum sativum</i> L.) plants	Astrit Balliu
10.2	The effects of AM fungi and nitrogen fixation bacteria on growth and root morphology parameters of pea (<i>Pisum sativum</i> L.) plants	Astrit Balliu
10.3	Evaluation of the germination rate of tomato seeds with autonomous image processing and artificial neural networks system	Denis Stajanko
10.4	Effect of geographical origin and dimension of corms on saffron production in Basilicata Region (Southern Italy)	Loriana Cardone
10.5	Effect of nitrogen and potassium fertilizations on carrot seed quality	Malik Fiaz Huss Ferdosi

TRAINING FOR FARMERS, 22. 06. 2017 - Minařik hall

THURSDAY, 22. 06. 2017 CHAIRS: Martina Robaĉer & Nina Kacjan Marřiĉ		
8.00–8.30	Registration (farmers)	
8.30–9.00	Opening speech: Prof. dr. Martina Bavec, Faculty of Agriculture and Life Sciences, University of Maribor Mr. Avetik Nersisyan & Dr. Wilfried Baudoin, representative of FAO, Rome Prof. dr. Silvana Nicola, vice-president ISHS Sneřana Dolenc & Alenka Marjetiĉ, Ministry of Agriculture, food and forestry, Slovenia	
9.00–9.30	Greenhouse vegetable production in SEE – situation and the main technological problems connected to the specifics of the region	Nazim Gruda
9.30–10.00	Situation and perspectives for vegetable production in Slovenia, Ministry of agriculture	Alenka Marjetiĉ Źnider (MAFF, Slovenia)
10.00–10.30	Coffee break	
	FIRST PART	Presenting author
10.30–11.15	Technologies and techniques for protected sustainable vegetable production in SEE climates	Constantinos Kittas
11.15–12.00	Water and irrigation management: challenges and opportunities	Stefania De Pascale
12.00–12.45	Soil fertility and plant nutrition management (including soil-less production	Dimitris Saavas
12.45–13.45	Lunch	
13.45–14.15	Sponsors presentation	
	SECOND PART	
14.15–14.45	Quality of seedlings production (propagation, grafting)	Astrit Balliu
14.45–15.15	Greenhouse tomato production	Yüksel Tüzel
15.15–15.45	Management of early potato production under different covers	Źare Ilin
15.45–16.15	Post-harvest treatments for preserving quality of vegetables from GH production	Silvana Nicola
16.15–17.00	DISCUSSION	

FRIDAY, 23. 06. 2017 EXCURSION	
7.45	Departure from the hotel Habakuk
8.00–9.00	Faculty of Agriculture and Life Sciences
9.20–10.00	Šlamberger farm
10.45–12.00	Kelenc farm (Formin)
12.30–13.45	Lunch
14.15–15.15	Panorganic
16.00–17.00	Organic farm Turinek
17.30	Arrival to the hotel Habakuk

	20. 06. 2017	21. 06. 2017	22. 06. 2017		23. 06. 2017		
		Minařik hall	Priol hall	Minařik hall	7.45 departure from Habakuk		
8.00–8.30		Registration	Registration	Registration Training for farmers	Faculty of Agriculture and Life Sciences		
8.30–9.00						Opening speech	
9.00–9.30			Opening	Scientific program Nr. 2	Opening lecture	drive	
9.30–9.45		Coffee break				Coffee break	Šlamberger farm
9.45–10.00							Invited lectures
10.00–10.15		Scientific program Nr. 3		Lectures First part			
10.15–10.30					Scientific program Nr. 4		
10.30–10.45		Scientific program Nr. 9	Lectures First part				
10.45–11.00				Lunch break	Lunch break		
11.00–11.15		Lunch break	Lunch break			Lunch	
11.15–11.30				Poster session Nr. 1	Poster session Nr. 4,6		
11.30–11.45		Scientific program Nr. 1	Sponsor presentation				
11.45–12.00				FAO workshop (Primožič hall)	Lectures Second part		
12.00–12.15		Coffee break	Lectures Second part				
12.15–12.30				Poster session Nr. 7,8	Discussion	Panorganic	
12.30–12.45		Networking for Further project Collaborations In SEE (Primožič hall)	Coffee break				
12.45–13.00				Scientific program Nr. 7	Poster session Nr. 9, 10		
13.00–13.15		Scientific program Nr. 8	Gala dinner			drive	
13.15–13.30				ISHS business Meeting (Primožič hall)	Gala dinner		
13.30–13.45		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner			Turinek organic farm	
13.45–14.00				Welcome reception	Gala dinner		
13.45–14.00		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner			Drive to hotel Habakuk	
14.00–14.15				Welcome reception	Gala dinner		
14.15–14.30		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner				
14.30–14.45				Welcome reception	Gala dinner		
14.45–15.00		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner				
15.00–15.15				Welcome reception	Gala dinner		
15.15–15.30		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner				
15.30–15.45				Welcome reception	Gala dinner		
15.45–16.00		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner				
16.00–16.15				Welcome reception	Gala dinner		
16.15–16.30		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner				
16.30–17.00				Welcome reception	Gala dinner		
16.30–17.00		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner				
17.00–17.30				Welcome reception	Gala dinner		
17.30–18.00		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner				
18.00–18.30				Welcome reception	Gala dinner		
18.30–19.00		Free evening in hotel (spa) or visiting city center Maribor	Gala dinner				
19.00–19.30	Welcome reception			Free evening in hotel (spa) or visiting city center Maribor	Gala dinner		
19.30–20.00	Welcome reception	Free evening in hotel (spa) or visiting city center Maribor	Gala dinner				
20.00–...				Free evening in hotel (spa) or visiting city center Maribor	Gala dinner		