

The Balkan Botanical Congress is an international meeting that has been held nearly every three years, since 1997. It brings together botanists from around the world who perform research on plants in the widest sense, as well as scientists who are engaged in the plant sciences and their applications. We were honored to host such an extraordinary scientific event this year in Serbia.

The 7th Balkan Botanical Congress – 7BBC 2018 took place in Novi Sad from September 10th to 14th 2018. The Congress was organized by the University of Novi Sad, Faculty of Sciences, Department of Biology and Ecology and the "Andreas Wolny" Botanical Society, along with the great help of 7 co-organizers and more than 30 supporters and sponsors. It truly was not possible to happen without exceptional help of our co-organizer - the Institute for Nature Conservation of Vojvodina Province who made this congress not only possible, but totally awesome.

7BBC 2018 placed a special emphasis on plants of the Balkan Peninsula and covered various research fields. The Congress was organized into ten sessions: Plant Anatomy and Physiology, Plant Taxonomy and Systematics, Plant Molecular Biology and Genetics, Floristics, Vegetation and Phytogeography, Conservation Botany and Plant Invasions, Phytochemistry and Plant Resources, Agronomy and Forestry, Botanical Collections and History, Ethnobotany and Cryptogam Biology. These topics were elaborated through five plenary lectures given by eminent scientists, as well as in the form of introductory lectures, oral and poster presentations. With an overall number of 387 abstracts presented on the very latest of botanical science, we shared knowledge, expertise and novel ideas. We welcomed nearly 400 scientists to Novi Sad, and we believe that we succeeded in our joint endeavor to make new networks and new connections among botanists. We hope that we contributed to advancements in the wide and beautiful field of botany, ranging from fundamental botanical research to applied botany.

It is our great pleasure to publish this Abstract Book in Botanica Serbica, in the same year that this international journal, a renamed continuation of the Bulletin of the Institute of Botany and Botanical Garden Belgrade, celebrates its 90 year jubilee. On behalf of the Scientific and Organizing committee of 7BBC 2018 we would like to express our gratitude to all contributors, colleagues and sponsors for taking part in the 7th Balkan Botanical Congress, as well as for their efforts and contributions to it's successful realization.

Goran Anačkov and Lana Zorić, Co-presidents of the Scientific Committee of the 7 BBC and guest editors of Botanica Serbica 42 (supplement 1).

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Sessions:

The 7th Balkan Botanical Congress consists of plenary lectures, introductory lectures of each session, as well as oral and poster presentations on the following topics: Sessions J. Plant Anatomy and Physiology Sessions 3. Plant Molecular Biology and Genetics Sessions 3. Plant Molecular Biology and Genetics Sessions 4. Pointics, Vegetation and Phytogeography Sessions 5. Conservation Botany and Plant Invasion

Sessions 3. Conservation Boltany and Plant Inves Sessions 6. Phytochemistry and Plant Resources Sessions 7. Agronomy and Forestry Sessions 8. Boltanical Collections and History Sessions 9. Binhobotany Sessions 10. Cryptogam Biology

the Shannon diversity index was 0,77 indicating high level of morphological diversity in the collection. The lowest diversity (0,07) was found for CCT and the highest individual descrip-tor diversity was found for GC (0,68). The results indicated that morphological characterization with higer number of analysed traits can be used to improve description of wheat germplasm in addition to molecular and agronomical eval-uations.

KEYWORDS: variability, morphological characters, Shannon

ENVIRONMENTAL MODELING OF INTERACTION VARIANCE FOR GRAIN YIELD OF MIDDLE-LATE MAIZE HYBRIDS

Bojan Mitrović^{*}, <u>Milica Perišić</u>, Dušan Stanisavljević, Petar Čanak, Sanja Miklć & Miroslav Zorić

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Corresponding autors requirements of the second sec in the best of the tested models explained 76% and 76.2% of the GBI variation for two consecutive years, respectively. Fac-torial regression combined with stepwise procedure revealed the 5-variable model that includes variables pr7 (explain-ing 20.1% of the variation). BI (19.1%), mm5 (14.5%), mm4 (13.3%), in 2004 and the two-variable model: mm16 (60.2%), m19 (16.0%) in 2005 as the most explanatory models in the region of Voyodian for these two consecutive years. These results provide a solid base for further research in GBI and stability analysis, and are a useful tool in characterizing the sub-regions of maize growing area and extending the existing results to new sites.

KEYWORDS: genotype by environment interaction, maize, yield, environmental variables

EVALUATION OF THE BALKAN PHASEOUTS COCCINEUS L. GENETIC RESOURCES

Barbara Pipan¹, Jelka Šuštar-Vozlič¹, Vida Todorović^{2*}, Marina Antič³⁵, Brezeanu Creola², Sonja Ivanovska⁴, Mirjana Jankulovska⁴, Aleksandra Savić³, <u>Mirjana Vasić^{3*} & Vladimir</u> Mogli

¹Agricultural Institute of Slovenia, Crop Science Department, Slo-venia, ²University of Banja Luka P Faculty of Agriculture, ¹Genetic Resources Instituti, Booina and Heregovinal, ¹University of Agri-cultural Science and Veterinary Medicines, Vegetable Research and Development Statom Bacar, Romania, ⁴S. Cyril and Methodisu Univ versity of Skopje, Faculty of Agricultural Sciences and Food, Republic of Macedonia, ⁷Institute of Field and Vegetable Crop. Department, Serbia D... le Crops

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In the last decade several thousand accessions were collected in different parts of Europe and are stored in national gene banks; at present the Phaseokus Database as part of the EURI-SCO Web exallague contains over 46000 records. Main objec-tive of the study (ECPGR_SMARTLEG project) was proper phenotypic and genetic evaluation of European Phaseokus accessions with emphasis to Phaseokus Cachesus germplasm providing new data to EURISCO and AEGIS. During the project, we provided three different types of datasets includ-ing morpho-agronamic traits of plants morphometric seed characteristics and genetic profiles of P coccineus accessions from eight European geographic origins Slovenia, Romania, Bonia and Herzegovina, Sevita, Italy, Slovenia, Romania, Bonia and Herzegovina, Sevita, Italy, Slovenia, Romania, Bonia and Herzegovina, Sevita, Italy, Slovenia, Romania, Bonia Scienzes seeds was performed according to adopt-ed Community Plant Variety Office-Technical Protocol and Phaselieu/AIS descriptors observing 14 different seed char-acteristics. The morphological evaluations were performed upon adjusted descriptors for Phaseokus (BCPGR_PhasChar from Austria) under field conditions in Slovenia, A set of 12 already proven and reliably cross-species amplified nSSR markers among Ph. wilgaris and P. coccineus genomes was applied to evaluate genetic structure of P. coccineus genomes types. Morpho-agronomical evaluation shows differentiation between P. coccineus sections even for standard varieties In the last decade several thousand accessions were collected types. Morpho-agronomical evaluation shows differentiation between *P. coccineus* accessions even for standard varieties under geographically distinct field conditions. Global principal component analysis extracted four components which cumulatively explains 74,6 % of morphometric variability of *P. coccineus* seeds. Analysis of molecular variability on the ba-*P. coccineus* seeds. Analysis of molecular variability on the be-sis of allelic patterns reflects 3 % of the molecular variability among *P. coccineus* germplasm from eight different geograph-ic origins which means that 97 % of germplasm is common to all accessions (p>001). Regarding to genetic structure of the *P. coccineus* germplasm from eight geographically distinct collections, three genetic clusters were formatied, the average genetic distance between genorypes in each cluster varies be-tween 0.592 and 0.816. Overall results indicate common geo-times and the second structure of the second structure of the second structure of the second structure of the second second structure of the second structure of the second second structure of the second structure of the second second structure of the second structure of the second second structure of the second structure of the second second structure of the second structure of the second second structure of the second st

7th Balkan Botanical Congress - Novi Sad, Serbia

graphic origin of *P. coccineus* accessions from different collec-tions within the Balkan.

KEYWORDS: morpho-agronomic traits, morphometric character isation. genetic structure, ECPGR-SMARTLEG project, EURISCO

Poster presentation I WILD FRUIT CROPS: PRESERVATIONS 14 07 05 AND UTILIZATION

<u>Goran Barać</u>*, Vladislav Ognjanov, Jovana Dulić, Maja Miodragović, Tijana Narandžić & Mirjana Ljubojević

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"Corresponding subor gurune population: a bus to specific phyto-geographic relations, specific climat-ic, orographic and edaphic conditions forest phytocoenoses in Volvedina (North Serbia) are very diverse. Significant and completely unused parts of this biodiversity are autochtho-nous wild fruit species. Due to the unique variability of the species, the Bulkan peninatula can be considered as the sec-ondary center of genetic diversity of several species and gen-era, such as: Mulax s domestica, M. sylvesiris, Pyrus commu-nis, Prunus cerusifera, P. mahaleb, P. fruitosa, P. tenella, Morus spp. Corylas colurna, Castanea saliva, Fragaria vesca, Olea suropea, Corylas colurna, Castanea saliva, Fragaria vesca, Olea quality and high nutritional value, which are used in human nutrition, food and pharmaceutical industries. Elderberry Gambucas spp. L.), one of the most common and widespread quarty and high minimized within the development of minima minition, food and pharmanecuital industries. Elderberry (Sambucus spp. L.), one of the most common and widespread species, can be considered as a sources of natural anticuidants with promoting effect on human health. Eight divergent gen-otypes of elderberry ware selected from natural populations of Central Serbia and Vojvodina with high antioxidant capac-ity and high content of vitamin C. Within genus Morve three species were analyzed and underwent selection. Selections of Morus signs and Morus rubra were distinguished by high content of vitamin C. Genotypes with dark colored furits con-tained high amount of anthocyanins and total phenols. Cor-nellan cherry (Corrus mes 1.) holds great biological and eco-nomic potential, and it is rich source of material for further breeding. Within natural populations in whole Serbia high di-versity considering fruit weight was observed. Hve genotypes with large fruits and high olubie solids content were selected. Sorbus domestica exhibited high diversity level in Vojvodina, and on account of that selection of superior genotypes is currently in progress.

KEYWORDS: biodiversity, variability, selection, Balkan peninsula

on 7. Agronomy and Forestry 167

Rutar presentation 15 07 17 EXPLORING AND GATHERING THE SERBIAN AND CZECH CROP WILD RELATIVES FOR INCREASING CROP DIVERSITY IN AGRICULTURE

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Conservation of plant genetic resources for food and agricul-ture is a very important task from the strategic and economic points of view almost in the whole world. Collecting expe-ditions and gathering of crop wild relatives, such as mead-ow (field and vegetable crops), aromatic, medicinal plants and some threatened species, are important parts of plant genetic resources activities which enrich gene bank storage composition. Common collecting missions have been orga-nized annually in both countries since 2011. Seven of them took place in Serbia and seven in the Caech Republic. In to-tal, 228 localities have been collected, in the Caech Republic it was 107 localities and 559 seed samples, while in Serbis it was 107 localities and 543 seed samples. The numbers present large source of biodiversity, which can be utilized in breeding and within *in situ* conservation activities. All the samples are stored in the working collections of both inativitures, after re-Conservation of plant genetic resources for food and agriculand within *in situ* conservation activities. All the samples are stored in the working collections of both institutes, after re-generation and multiplication process the seeds are stored in both national gene banks. These collecting missions provided new information concerning the distribution of crop wild rel-atives and traditional farming practices still present in some regions, especially in Serbia. Our preliminary results indicar-ed that the wild seed lots are an important source of valuable genetic variability for utilization in breeding programs. In the paper detailed survey of collected material and its utilization is presented.

KEYWORDS: genetic resources, collecting missions, Serbia, Czech Republic, gene banks, conservation, evaluation

Z Zahlan, J. 158 Zahlan, J. 158 ZambonZii, A. 197 Zaro, G. 46 Ziweick, B. 41, 71 Zayou, R. 20 Zubiti, M. 50, 133 Zebec, M. 163 Zehen, P. 47 Zongin, G. 147, 154 Zheire, P. 49, 144 Zheijuzkov, VD. 15, 21, 127 Zihon, A. 91 Zhati, N. 155 Zihen, P. 41, 16, 39, 33, 130, 134, 141, 142 Zonti, J. 16, 17, 18, 20 Zonti, M. 166 Zornic, J. 167 Zorkon, I. 174 Zonomovi, Lihovi, J. 41, 42, 56, 61 Žike, V. 44 Zihić, J. 161 Zihen, J. 119 Zihen, J. 119 Zihen, J. 119 Zihen, J. 23 Zihen, M. 26

Uyaal, A. 147, 154 Vagif, A. 95, 96 Valcheva, M. 112 Valcheva, M. 112 Valcheva, M. 112 Vardar, F. 24 Varga, R. 181 Varga, G. 173 Varga, M. 22, 32 Varga, N. 198 Vastle, M. 165 Vastle, M. 165 Vastle, M. 179 Vechin, J. 178 Vechin, J. 178 Vechin, J. 178 Vechin, M. 189 Velki, M. 199 Verkova, D. 107, 175 Venkova, D. 102, 177 Velach, A. 26, 203 Velach, A. 48, 54 Valch, M. 189 Velach, A. 10, 102 Venkova, D. 102, 102 Velach, A. 10, 102 Venkova, D. 102, 102 Velach, A. 10, 102 Velach, J. 102 Velach, J. 102 Velach, J. 104 Velach, J. 105 Vela 7th Balkan Botanical Congress - Novi Sad, Serbia

Contents	
Plen	ary Lectures
Sest	ion 1
p	ant Anatomy and Physiology
	Introductory lectures 11
	Oral presentations 12
	Poster presentations
G	
3038	ion 2, line the second s
	Intradictional Constitution of the State of the State of
	Oral presentations 40
	Poster mesentations 47
Sessi	ion3.
P	lant Molecular Biology and Genetics
	Poster presentations
Sessi	lon 4.
F	loristics, Vegetation and Phytogeograpy
	Introductory lectures
	Oral presentations
	Poster presentations
Sessi	lon 5.
C	conservation Botany and Plant Invasion
	Introductory lectures
	Oral presentations
	Poster presentations
Sessi	ion 6
p	hytochemistry and Plant Resources
	Introductory lectures
	Oral presentations
	Poster presentations
Carni	* ion 7
A	annows and Boostry
	Introductory Potestry 161
	Dra presentations 161
	Poster presentations. 163
Jess	ion 8.
D	Otamical Collections and history 172
	Oral amentations 173
	Poster mesentations 175
Sessi	
в	thnobolany
	Introductory lectures.
	Oral presentations
	roster presentations
Sessi	ion 10.
C	ryptogam Biology
	Introductory lectures
	Unal presentations
	Poster presentations
Inde	x