

10th CMAPSEEC: BOOK OF ABSTRACTS

**10th Conference on Medicinal and Aromatic Plants of
Southeast European Countries**

May 20-24, 2018, Split, Croatia

10th CMAPSEEC

10th Conference on Medicinal and Aromatic Plants of Southeast European Countries May 20-24, 2018, Split, Croatia

Jointly organized by:



Association for Medicinal and Aromatic Plants of Southeast European Countries (AMAPSEEC), Belgrade, Serbia

and

University of Zagreb, Faculty of Agriculture, Zagreb, Croatia

Institute for Adriatic Crops and Karst Reclamation, Split, Croatia

Centre of Excellence for Biodiversity and Molecular Plant Breeding (CroP-BioDiv), Zagreb, Croatia

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10th CMAPSEEC

10th Conference on Medicinal and Aromatic Plants of Southeast European Countries May 20-24, 2018, Split, Croatia

Dear Friends and Colleagues,

On behalf of the Organizing and Scientific Committees I am pleased to welcome you to the 10th Conference on Medicinal and Aromatic Plants of Southeast European Countries (10th CMAPSEEC) jointly organized by the University of Zagreb, Faculty of Agriculture, Zagreb, Croatia, Institute for Adriatic Crops and Karst Reclamation, Split, Croatia and the Centre of Excellence for Biodiversity and Molecular Plant Breeding (CroP-BioDiv), Zagreb, Croatia in collaboration with Association for Medicinal and Aromatic Plants of Southeast European Countries (AMAPSEEC).

AMAPSEEC was founded in 1998 on the initiative of the Institute for Medicinal and Aromatic Plant Research 'Dr Josif Pančić', Belgrade, Serbia. Ever since the Association served as an important network connecting scientists interested in medicinal and aromatic plants. After the foundation of the Association, the Conferences were organized in different countries every second year greatly contributing to the development of various fields of research concerning medicinal and aromatic plants.

As this is the first time for the Conference to be organized in Croatia it is our great privilege to host the 10th Jubilee Conference in Split and pay tribute to all the past efforts in organizing our meetings:

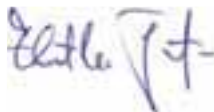
- 2000: 1st CMAPSEEC, Arandjelovac, Serbia; hosted by Mihailo Ristić
- 2002: 2nd CMAPSEEC, Chalkidiki, Greece; hosted by Maria Couladis and Vassilios Roussis
- 2004: 3rd CMAPSEEC, Nitra, Slovakia; hosted by Miroslav Haban and Ivan Šalamon
- 2006: 4th CMAPSEEC, Iasi, Romania; hosted by Gogu Ghiorghita
- 2008: 5th CMAPSEEC, Brno, Czech Republic; hosted by Gabriela Růžičková
- 2010: 6th CMAPSEEC, Antalya, Turkey; hosted by Ilkay Erdogan-Orhan
- 2012: 7th CMAPSEEC, Subotica, Serbia; hosted by Zora Dajić Stevanović
- 2014: 8th CMAPSEEC, Durrës, Albania; hosted by Alban Ibraliu
- 2016: 9th CMAPSEEC, Plovdiv, Bulgaria; hosted by Vassya Bakova

Moreover, in dedication to our late colleague and dear friend Mihailo Ristić (1953 - 2017), the founder and the first president of AMAPSEEC, the Best Poster Award has been established in his honour.

I sincerely hope that the 10th CMAPSEEC will follow the established tradition in gathering scientists, young researchers and entrepreneurs involved in medicinal and aromatic plants production, processing and use. Thus, the scientific programme tends to cover a broad range of topics organized into three sections: (1) Medicinal and aromatic plants ecology, diversity and ethnobotany, (2) Phytochemical analysis, pharmacology, biological activity and toxicity, and (3) Cultivation, breeding and biotechnology of medicinal and aromatic plants.

The Organizing and Scientific Committees would like to thank all the participants for their contributions as well as the sponsors for their financial support.

The 10th CMAPSEEC is a result of effort of a large group of people and everyone should be proud of the outcome.

A handwritten signature in blue ink, appearing to read 'Zlatko Šatović', with a stylized flourish at the end.

Zlatko Šatović

President of the Scientific Committee

10th CMAPSEEC

**10th Conference on Medicinal and Aromatic Plants
of Southeast European Countries
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***SIDERITIS RAESERI* Boiss. & Heldr. (ÇAJI I MALIT) DISTRIBUTION IN ALBANIA, CHALLENGES FOR THE FUTURE**

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Sideritis raeseri Boiss.et Heldr., (Çaji i Malit) is included in the Red Book of Albania as an endangered species growing wild in Albania. The aim of this research was to investigate the natural distribution areas of *Sideritis raeseri* and to identify the possible cultivation areas assessing the relationships between environmental conditions and the physiological and morphometric characteristics of *Sideritis raeseri* populations. By identifying the most important natural growing areas of *Sideritis raeseri* populations, this study will contribute in the increasing of the representativeness of Çaji i Malit germplasm in genebank database and the possible quantity of incomes for the local people as the local employments are connected to an increment of *Sideritis* populations in the most natural growing areas of this species. Determining the map impact of cultivation of Çaji i Malit natural populations is an important undertaking, especially in sustainability of the families and individuals situated on the natural growing areas of *Sideritis* populations. Finally, the study has contributed in the development of Çaji i Malit database covering the geographic natural distribution of *Sideritis raeseri* and sparsely cultivation areas near of Natural Parks in Albania.

Key words: *Sideriti raeseri*, Albania, database

EVALUATION OF THE DIVERSITY OF COMMON JUNIPER (*JUNIPERUS COMMUNIS* L.) FROM THE TYPICAL GEOGRAPHIC AREAS IN ALBANIA

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Juniperus communis L., a wild shrub species, growing especially in mountain areas of Albania in association with the other most important coniferous species. It is included in the Red Book of Albania as an endangered species growing wild in Albania. Nowadays, berries of *Juniperus*, are exported from Albania to many countries and especially in EU countries and are considered as the important income source for the local people that live in the poor mountain areas of the country. Assessment of geographic distribution of several populations of *Juniperus*, observed in 10 districts of Albania (Malesi e Madhe, Tropoje, Kukes, Diber, Elbasan, Librazhd, Bilsht, Korce, Erseke, Leskovik), was carried out. Berry fruits were also collected from 18 different natural growing areas of *Juniperus* in Albania. Spatial analysis, using grid square cells of 1 x 1 km, and 10 x 10 km, detects the areas of high diversity of *Juniperus* populations. The geographic areas were separated into small grid square cells, and grid cells of 1 x 1 km, and 10 x 10 km was used to assess the geographic distribution, diversity indices, and richness estimators of oregano populations. The biodiversity monitoring of Juniper populations, growing naturally in different mountain areas of Albania, contributes to the increasing efficiency and enhancement of beverages and food industry.

Key words: *Juniperus communis*, geographic distribution, Albania