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Abstract book



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Welcome

It is our sincere pleasure to welcome you on the EurBee 10 Congress in Tallinn, Estonia! The Congress is organized by the Estonian University of Life Sciences with assistance by Publicon OÜ.

EurBee is the event, where old and new friends get together to exchange the knowledge of novel scientific findings, associated with honeybees and other pollinators.

We encourage young researchers to meet the leading scientists on their field. Establishing networking and creating new connections is extremely important for sustainable bee research.

The City of Tallinn is the capital of Estonia. Tallinn's Hanseatic old town and nowadays modern architecture is a great mixture for every taste. We recommend you to discover the great Estonian flavors and the interesting culture that Tallinn offers you in abundance on every corner.

Looking further, Estonian nature with its forests, bogs and swamps is unique in the world – all the EurBee guests have the opportunity to experience its magic!

Experience magic – experience Estonia!

Sincerely Yours,

Risto Raimets

President of EurBee 10



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BIOGEOGRAPHIC ORIGIN INFLUENCES THE PHYSICO-CHEMICAL PROPERTIES OF MEDITERRANEAN BASIN HONEYS

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Abstract

The environmental qualities of the Mediterranean basin draw distinctive plant peculiarities. Thus, MEDIBEES has undertaken the study of the honeys of this region in order to recognize the patterns of differentiation between them. The aim is the possible definition of quality marks associated with geographical origin.

Honey samples are available from each of the partner countries (Portugal, Spain, Italy, Malta, Turkey, Jordan, Lebanon, Algeria) and collaborators (Egypt, UAE). The proposed sampling collects honey from all the biogeographical regions existing in each country. About 276 honeys have arrived at the CIAPA laboratory for analysis. The analytical work is carried out in Italy, Algeria and Spain. The consistency and comparability of the data obtained will be verified through interlaboratory tests. The physicochemical parameters will be assessed according to the methods proposed by the International Honey Commission (Bogdanov et al., 2002). The botanical origin and its pollen spectrum will follow the method proposed by Louveaux et al. (1978) with modifications adapted to each laboratory.

Orange blossom and eucalyptus honey are produced in Italy, Jordan, Portugal and Spain, while Sidr, Tinder thistle, cornflower and mesquite honey were found in Jordan. Humidity averages were higher in Portugal and Turkey ($\pm 16.50\%$) and lower in Jordan ($\pm 15.50\%$). Diastatic activity was higher in those from Italy, Jordan and Spain. Distinctly, honey from UAE has high electrical conductivity (1.40 mS/cm), pH (5) and free acidity (60 meq/kg), together with pfund of 120 mm and sugar content of 60%.

The results obtained so far are yielding interesting results, which will lead to the success of the stated objective. The study under development will bring added value to the Mediterranean beekeeping market.

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