



# YOURS 2020

## ABSTRACT PROCEEDINGS

**YOUng ResearcherS Conference 2020**


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**Ministry of Education, Science and Technological Development**

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**UKAS - Association for Quality, Accreditation and Standardization**

**Faculty of Mechanical Engineering, University of Belgrade**



# YOURS 2020

## YOUng ResearcherS Conference 2020

YOURS 2020 supports young researchers and their results in its broadest sense by highlighting the presentation of new trends and research and promoting innovative practices that advance academic achievements.

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## EVALUATION OF FRUIT QUALITY OF TWO AUTOCHTHONOUS APPLE CULTIVARS SUITABLE FOR WIDESPREAD PRODUCTION

Aleksandra Korićanac, Milan Lukić, Boris Rilak, Branko Popović, Olga Mitrović, Slađana Marić

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**Summary:** Autochthonous apple cultivars are mainly grown in extensive orchards. Due to their resistance to pathogens, frost and summer droughts, they should be considered for more intensive organic and integrated production. Since autochthonous cultivars represent valuable source of genetic variability, they contribute to biodiversity and stability of ecosystems. Nevertheless, fruit of autochthonous cultivars is abundant in health-protecting compounds. Thus, the objective of this study was to analyze the fruit quality of two autochthonous apple cultivars, 'Bobovec' and 'Kolačara', in comparison to 'Morrens Jonagored', one of the most commercially important cultivar. The obtained results indicate that examined autochthonous cultivars contained higher amount of soluble solids, total acids and total phenolics. Although 'Bobovec' had the smallest fruit, it exhibited the highest antioxidant capacity and contained the highest concentration of health-beneficial phenolic compounds.

**Keywords:** 'Bobovec', 'Kolačara', pomological characteristics, chemical properties, bioactive compounds



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The background features a vibrant, abstract composition. At the top, there are several overlapping circles in shades of green, yellow, and orange. These circles contain various icons: a dollar sign, a brain, a magnifying glass, a gear, and an upward-pointing arrow. Below these circles, there are silhouettes of human heads in profile, facing each other, set against a light blue background with white clouds. The overall theme suggests a focus on technology, industry, and human collaboration.

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