



Department of Biology and Ecology,
Faculty of Sciences and Mathematics
University of Niš
Institute for Nature Conservation of Serbia

ABSTRACTS APSTRAKTI

**14th Symposium
on the Flora of Southeastern Serbia
and Neighboring Regions**

Kladovo 26 to 29 June 2022

**14. Simpozijum
o flori jugoistočne Srbije
i susednih regiona**

Kladovo 26. do 29. jun 2022.

Niš-Belgrade, 2022

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Characterization of Mung bean (*Vigna radiata* L.) seeds: antioxidant activity, chlorophyll and carotenoid content

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Mung bean (*Vigna radiata* L.) is a leguminous plant with high nutritional value, traditionally known as a functional food. Legume seeds are a rich source of proteins, vitamins, minerals, and essential amino acids but also contain bioactive components and polyphenols which possess a high antioxidant capacity. Pigments content (chlorophyll *a* and *b*, carotenoids) was determined as good parameter for estimation of seed quality and an indicator of tolerance to different types of stress. The antioxidant activity of the seeds was determined using DPPH (2, 2-diphenyl-1-picrylhydrazyl) assay. The concentration of chlorophyll *a* and *b* and carotenoids were determined by a spectrophotometric method. Obtained results indicate a higher content of chlorophyll *a* than chlorophyll *b*, 0.352 µg/ml and 0.220 µg/ml respectively, while total carotenoids content was 0.108 µg/ml and DPPH radical scavenging activity was 54.52% ± 1.77. The advancement in this research lies in collecting information about bioactive compounds, such as chlorophylls and carotenoids, that are useful in improving the functional and antioxidant properties of quality seeds used in daily diet.

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