



STATISTICAL STUDY OF HEAVY METAL DISTRIBUTION IN THE SPECIFIC MUSHROOMS FROM THE STERIL DUMPS CĂLIMANI AREA

Danuț Cozma¹, Cătălin Tănase², Cristian Tunsu¹, Romeo-Iulian Olariu¹,
Alin Ionaș¹, Aurel Pui^{1*}

¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, 11 Carol I Blvd., 700506 Iasi, Romania

²"Alexandru Ioan Cuza" University of Iasi, Faculty of Biology, 20A Carol I Blvd., 700505 Iasi, Romania

Abstract

The paper proposes a statistical treatment to establish whether or not the level of the heavy metals contents found by FAAS on different mushroom species depend on the substratum type and on the growing-place (sampling area). Two different statistical procedures have been used: one-way ANOVA test and second PCA analyses. The results obtained by using both statistical procedures are in good agreement.

From the one-way ANOVA analyses it has been concluded that Fe and Cu are independents while all other identified heavy metals (Mn, Co and Zn) are depending on the substratum type (mushroom species). The PCA procedure applied suggested that all FAAS data analysed can be organized using only two factors, namely F1 that contains significant contributions from Co, Zn, Mn, and factor F2 which contains less significant contributions from Cu, Fe.

Key words: ANOVA, Călimani, heavy metals, macromycetes

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* Author to whom all correspondence should be addressed: E-mail: aurel@uaic.ro; Phone:0232/201276; Fax: 0232 201276