

#### FACULTY OF FOOD SCIENCE AND TECHNOLOGY, UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA



# Nutritional value and antioxidant properties of some edible mushrooms varieties

Melinda NAGY, Sonia SOCACI, Zoriţa DIACONEASA, Francisc DULF, Maria TOFANĂ, Dorin ŢIBULCĂ

#### Mushrooms

Enzymes: <a href="mailto:trypsin">trypsin</a>, <a href="mailto:important">important</a> <a href="mailto:role">role</a> in <a href="mailto:digestion">digestion</a>;



A rich source of protein, fiber, fatty acids, vitamins and other biologically active compounds;

Rich source of polyphenols, ascorbic acid, high antioxidant capacity;

" Vegetable Meat "

### Aim















## Physicochemical analysis

- Moisture
- Protein
- Lipid
- Minerals
- Carbohydrates
- Energy

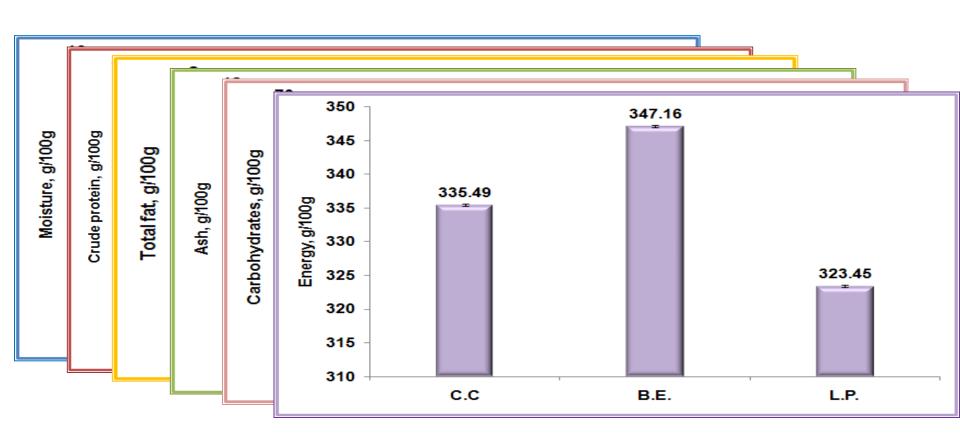
**UV-VIS** 

- Antioxidant activity
- Total polyphenols
- Total flavonoid

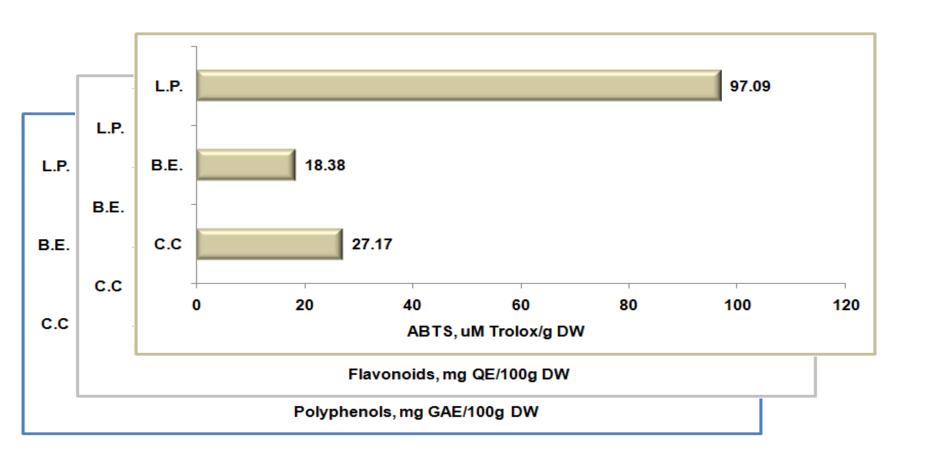
GC-MS

Fatty acids

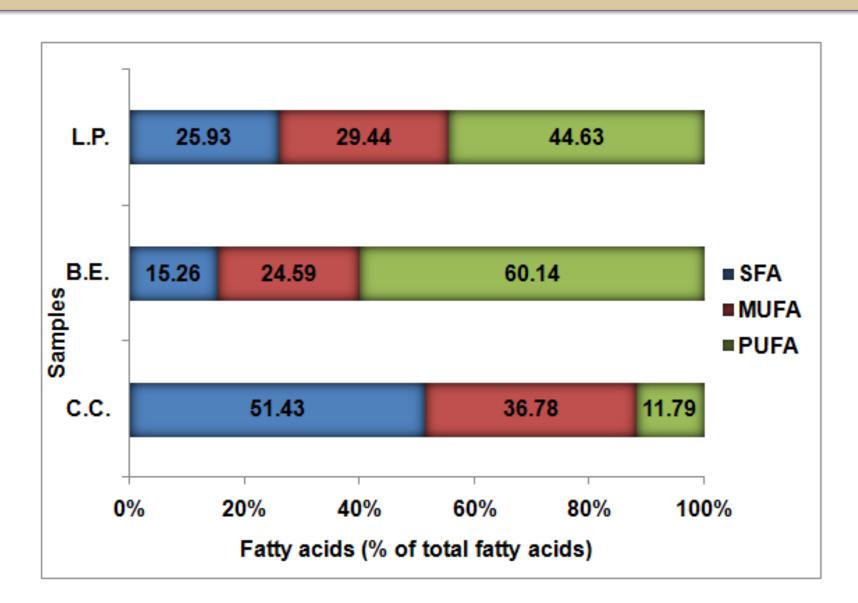
## Evaluation of nutritional parameters of selected mushroom varieties



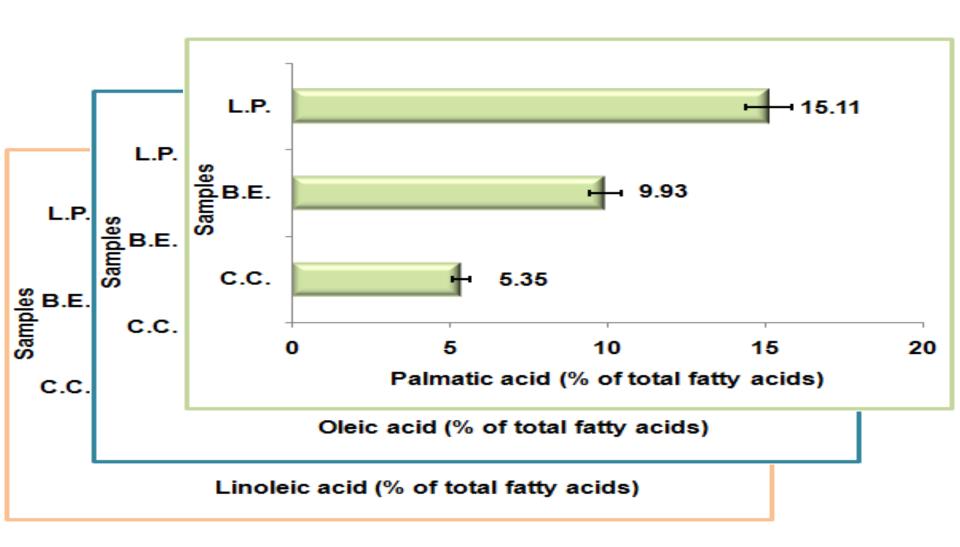
## Evaluation of antioxidant capacity and quantification of the total polyphenols content and flavonoids by UV-VIS absorption spectroscopy



## DETERMINATION OF METILATE FATTY ACIDS (FAMEs) BY GC-MS TECHNIQUES



## DETERMINATION OF METILATE FATTY ACIDS (FAMEs) BY GC-MS TECHNIQUES



#### CONCLUSION

Physico-chemical
Characterization of bioactive characterization of the compounds of mushrooms mushrooms

Antioxidant calpipidity (97.09uMTrolo2/@934)/)

Oleic Witherals (36.29(%:95%)tal fatty acids) Total poliphenols (80815818) GAE/100g DW) (36.24%)



Boletus edulis

Lactarius piperatus

Cantharella cibarius

