

## Aims:

- To make **black truffle (*Tuber melanosporum*) cultivation and obtaining methods** known
- To **synthesize information and recommendations** from different sources: books, articles and experts
- To highlight the **scientific and field work** carried out by workers dedicated to the sector



*Black truffle (*T. melanosporum*)*, A. External and internal appearance (E. Luengo), B. Microscopic view of ascospores (M. Casas)

## NURSERY ACTIVITIES

- Plantlet
- Inoculate
- Substrate

## INOCULATION

Recap of black truffle's cultivation and obtaining process

## PLANTATION

Land suitability  
Land preparation  
Host plant  
Planting density

## MAINTENANCE

Colonization period  
Exploitation period

## HARVEST

## MYCORRHIZA

Symbiosis (Mutual benefit)

The fungus receives the necessary organic nutrients that cannot synthesize by itself (**carbohydrates and amino acids**) and the plant increases the **uptake of water** and some minerals from the soil (**P, N, K**), in addition to **improve tolerance of stressful situations** such as drought, disease or parasitic infestations (Parniske, 2008).

## Conclusions:

- The whole black truffle obtaining process is **long and laborious**
- The truffle plantation is **profitable from the tenth year**
- There is a **lack of varied information** about truffle farming
- Nurserymen and truffle farmers **hide and reserve their techniques**

Mycorrhized  
kermes oak root

