

Biocontrol from *Rosmarinus officinalis* extracts against pathogen fungi

Type of article: Conference abstract

Messaouda Meraghni a, Ouahiba.Bordjibaa, Adel Mohamedb
aPlant Biology and Environment Laboratory, 1: BADJI Mokhtar Annaba University, P.O.
Box 12, 23000 Annaba Algeria
bCity of Science and Technology, Sheikh Zayed District, 125886th of October City, Giza,
Egypt
merasouad@gmail.com, ouahiba_bordjiba@yahoo.fr, mhamed@zewailcity.edu.eg

Abstract

Rosmarinus officinalis is widely used for his anti-microbial activities .To this aim aqueous methanolic and methanolic sonicated extracts of these plant were tested in *in vitro* against deferent pathogenic strains: *Fusarium oxysporum*, *Fusarium verticillioides*, *Fusarium gramanirum*, *Fusarium sp*, *penicillium sp*, *Alternaria sp*, *Colletotrichum sp*;, by the contact bioassay method using a 1 mg / ml concentration of each extract. The two methanolic and methanolic extracts sonicated reduced mycelial growth with an inhibition rate which varied from 36 to 90% for the methanol extract and 50 to 90% for the methanolic extract sonicated. On the other hand, the aqueous extract exerted a weak activity with an inhibition rate of 20 to 48%. From the perspective of the results obtained, the two methanolic and methanolic extracts sonicated can be used as biocontrols to protect from fungal diseases.

Key words:*Rosmarinus officinalis*, extract, strain, activity, biocontrol.

1. Conflict of intereststatement

This article was selected from ICHSMT'17 abstracts book.

2. Authors' biography

No Biography

3. References

No references