

RESEARCH ARTICLE

Study the relationship of *Pleurotus florida* with other *Pleurotus* sp. and fungal moulds

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SUMMARY

The present investigation on study the relationship of *Pleurotus florida*, with other *Pleurotus* sp. and fungal moulds was undertaken with the objectives to study the growth, population of substrate mycoflora associated and inhibition of *P. florida*, with other *Pleurotus* sp. and fungal moulds. In all the cases, the test fungus showed less mycelial growth while *P. florida* recorded maximum growth (43.47 mm) in dual culture with *P. ostreatus* followed by combination with *P. flabellatus* (41.54 mm). Regarding the population of mycoflora during different month, it was generally lower from November to March and August to September when the growth of *P. florida* was profuse and abundant due to favourable prevailing climatic conditions. However, the population of mycoflora was comparatively higher during April to July with rise in temperature, fall in relative humidity and unfavourable conditions for development of mushroom mycelium and fruiting. The results also revealed that all the isolated fungi had relatively faster rate of growth than *P. florida* on potato dextrose agar medium. The rate of growth in *Rhizopus* sp. was more followed by *Aspergillus niger*, *A. flavus* and *Trichoderma viride*. However, the rate of growth was comparatively less in *Rhizoctonia* sp. Maximum inhibition in radial growth of *P. florida* was recorded with *Rhizopus* sp. (70.45%) followed by *A. niger* (65.90%) and *A. flavus* (63.63%). However, the inhibition of growth of *P. florida* was minimum in *Rhizopus* sp. (29.51%).

Key Words : Relationship of *Pleurotus florida*, *Pleurotus* sp., Fungal moulds

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