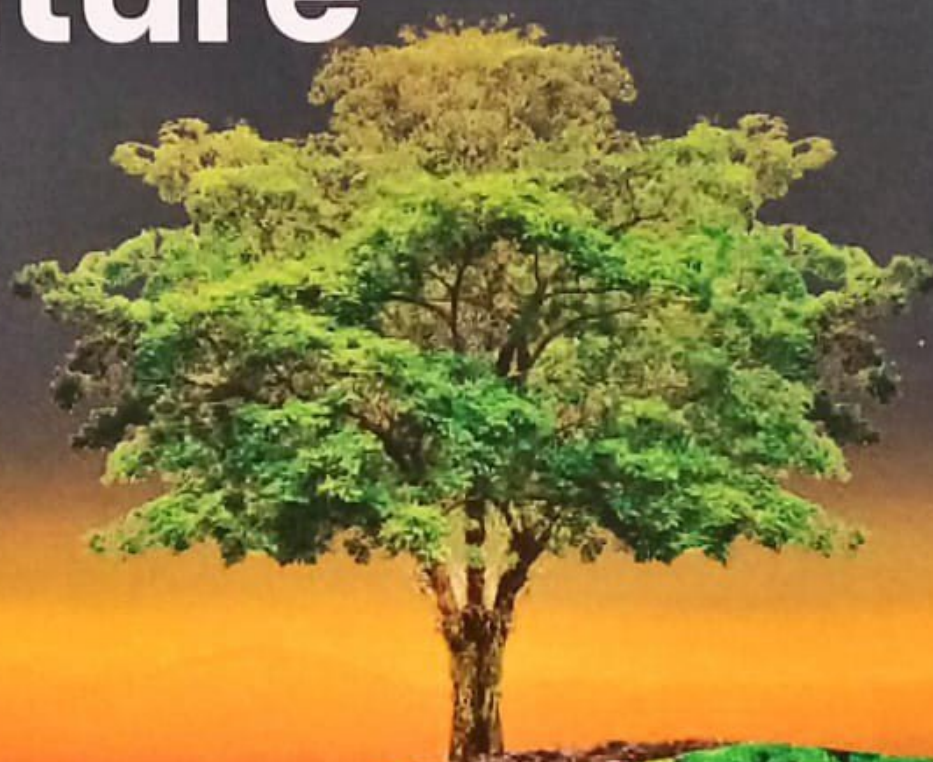




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Life Science For A Sustainable Future



General Editor

Meera George, Ph.D



RPH

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Cultivation and morphological analysis of *Pleurotus* sp (*P.florida* & *P.eous*) growing under different substrates

Kaladevi V, Bindu Alex, Preetha S S, Remyadevi GS *

Abstract :

Mushrooms are fleshy, spore-bearing reproductive structures of fungi grown on organic substrates and for a long time, have played an important role as a human food due to its nutritional and medicinal properties. Mushrooms are fungi known to grow in nature on decaying cellulosic materials, dead wood, soil now a days a leading food component. The cultivation of mushrooms helps in bioconversion of agro wastes in to nutritive food for human consumption. The present study was carried out at Mushroom house, St. John's College, Anchal, during the winter season in 2020. Two edible Oyster mushroom (*Pleurotus florida* and *Pleurotus eous*) were selected for this study. The objective of the study was focused on the cultivation, morphological analysis like spawn running, pinhead formation, fruiting bodies formation, yield, fruiting bodies characteristics were analysed under different locally available agro-waste, like paddy straw, oil palm waste, sugar cane waste, coconut fibre and reed waste. The experimental design used was hanging method. Analysis of result revealed the completion of spawn running, pinhead formation and fruiting bodies formation were lower for oil palm waste than other substrates. The