World Academy of Science, Engineering and Technology
International Journal of Environmental and Ecological Engineering
Vol:9, No:01, 2015

Selection of Endophytcs Fungi Isolated from Date Palm, Halotolerants and Productors of Secondary Metabolite

Authors : Fadila Mohamed Mahmoud., Derkaoui I., Krimi Z.

Abstract : Date palm is a plant which presents a very good adaptation to the difficult conditions of the environment in particular to the drought and saline stress even at high temperatures. This adaptation is related on the biology of the plant and to the presence of a microflora endophyte which live inside its tissues. Fifteen endophytics fungi isolated from date palm were tested in vitro in the presence of various NaCl concentrations to select halotolerantes isolates. These same endophytes were tested for their colonizing capacity by the description of the production of secondary metabolites more particularly the enzymes (pectinases, proteases, and phosphorylases), and the production of antibiotics and growth hormones. Significant difference was observed between the isolates with respect to the tests carried out.

Keywords : Date palm, Halotolerantes, endophyte, Secondary metabolites.
Conference Title : ICAEER 2015 : International Conference on Agricultural Economics and Environmental Research
Conference Location : Istanbul, Türkiye
Conference Dates : January 26-27, 2015