

Certain aspects of management for Green mould rot (*Penicillium digitatum*) in Kachai lemon (*Citrus jambhiri* Lush.) in Ukhrul district, Manipur

S. NIMYAOLA*, M. SHYAMKESHO SINGH AND N. IRABANTA SINGH¹

Centre of Advanced Study in Life Sciences, Manipur University, Canchipur 795003, Imphal, Manipur

Received : 29.04.2019

Accepted : 08.05.2019

Published : 29.07.2019

Present investigation deals with development of suitable management practises for post-harvest disease of Kachai lemon caused by *Penicillium digitatum*. *In vitro* studies to assess the antifungal potentiality of 10 plant extracts were carried out. Among the phytoextracts, *Azadirachta indica* was found to have the highest inhibitory effect (69.27%, 71.22%, 72.62% and 73.46% at 5%, 10%, 15% and 20% concentration) on the mycelial growth of test fungus followed by *Zingiber officinale* and *Justicia adhatoda*. Thus, plant products could be successfully used as an effective alternative component of integrated pest management (IPM) due to their economic viability and eco-friendly nature.

Key words: Green mould rot, *Penicillium digitatum*, management, phytoextracts
