

ENDOPHYTIC FUNGI WITH ANTI-DIABETIC ACTIVITIES ISOLATED FROM AMLA FRUITS

KULDEEP SINGH¹, KAVITA SINGH² & CBS DANGI³

¹Research Scholar, Department of Biotechnology, RKDF University, Bhopal, Madhya Pradesh, India

²Assistant Professor, Department of Biotechnology, RKDF University, Bhopal, Madhya Pradesh, India

³Professor & Dean, Faculty of Life Science, RKDF University, Bhopal, Madhya Pradesh, India

ABSTRACT

Many of the endophyte have been show potential *de-novo* synthesis of different bioactive metabolites that are used directly or indirectly as therapeutic agent and several ailments. Diabetes Mellitus is a metabolic disorder caused due to defect in insulin secretion, insulin action or both. Diabetes mellitus is causing serious health problem and due cause of some inheritance or changed lifestyle and food habit. Mycelia extract of *Penicillium*, *Streptomyces*, *Rhizopus*, *Cladosporium*, *Nigrospora oryze* and *Alternaria* species isolates were reported best inhibition ranging 15 to 38% α -amylase and sucrose. Isolated endophytes have good potency in anti-diabetic ailment.

KEYWORDS: Endophyte, Diabetes, Amla, Glucose Level, Haemoglobin