

Recent Advances in Control of Red Rot in Sugarcane – An Overview

Thineshkumar J¹. K. Surendran¹ and N. Indianraj²

UG Scholar, Thanthai Roever Institute of Agriculture and Rural Development, Perambalur, Tamilnadu, India¹

PhD Scholar, Dr. Rajendra Prasad Central Agricultural University, Pusa, Bihar, India²

Corresponding author Email id: indianrajagri5243@gmail.com

Abstract: *Sugarcane is cash crop grown commercially throughout India. India is blessed with sub continent climatic condition that favours the growth of sugarcane. The major problem in Sugarcane is Red rot disease caused by *Colletotrichum falcatum* which is often called as of sugarcane. It is the most devastating disease which causes great loss to the farmers. Drought also increases susceptibility to disease. This disease was characterized by discolouration of leaf, reddening of internal tissues with intermingled transverse white spot and development of black fruiting body (Acervuli) on the rind. It was controlled by many methods namely Chemical, cultural, botanicals, nanomaterials and so on. This article gives detail information about the control measures of red rot of sugarcane.*

Keywords: Sugarcane, red rot, reddening of tissues, acervuli, cultural, chemical and botanicals

REFERENCES

- [1]. Girivasan T V, Gabishek, P Sanjay Rahul and S Sathuragiri (2022). Sustainable Sugarcane Initiative –The Savviour Of Sugarcane Sector .IJARSCT 2[1] 2581-9429. Page No :59-65
- [2]. R Viswanthan and R Samiappan 2000 .Red rot disease in sugarcane :Challenges and prospects.MadrasAgri 87(10-12) Page No :549-559.
- [3]. MuhammadNasirSubhani,Munir Ahmad Chaudhry and Abdul Khaliq and Faqir Muhammad(2008)Efficacy of varioudfungicide against sugarcane red rot.InternationalJournal Of Agriculture And Botany 10 .1814-9596.Page No :725-727
- [4]. M N Hassan .S Afghan and FY Hafeez (2012) Biological Suppression of Sugarcane Red Rot by *Bacillus sp.* Under field condition.Journal of Plant Pathology 94 [2].Page No 325-329
- [5]. EGUBAGI, J. M.; Adebola Matthew Omoniyi; ABUBAKAR, Abdulhakeem; MAISHERA, U. S.(2019) Antifungal Efficacy of three Botanical Extracts on Red Rot Pathogen (*Colletotrichum falcatum*) of Sugarcane (*Saccharum officinarum*)53th Annual Conference of Agricultural Society of Nigeria. 21st -25th October, 2019. NCRI
- [6]. Amna, Tariq Mahmood, Umar Nawaz Khan, Babar Amin, Muhammad Tariq Javed, Shehzad Mehmood, Muhammad Asad Farooq, Tariq Sultan, Muhammad Farooq Hussain Munis, Hassan JavedChaudhary.(2021) Characterization of bio-fabricated silver nanoparticles for distinct anti-fungal activity against sugarcane phytopathogens. Microscopy Research and Technique84 (7) 1522-1530
- [7]. Md Imam Hossain, Khairulmazmi Ahmad, Yasmeen Siddiqui, Norsazilawati Saad, Ziaur Rahman, Ahmed OsumanuHaruna, Siti Khairunniza Bejo ,Current and Prospective Strategies on Detecting and Managing *Colletotrichum falcatum* Causing Red Rot of Sugarcane.Agronomy 10 (9), 1253, 2020.
- [8]. V Singh, PN Singh, RL Yadav, SK Awasthi, BB Joshi, RK Singh, RJ Lal, SK Duttamajumder ,Increasing the efficacy of *Trichoderma harzianum* or nutrient uptake and control of red rot in Sugarcane, Journal of Horticulture and Forestry 2 (4), 66-71, 2010.
- [9]. Delna Rose, Geeta Sharma, ShilpiRawat ,Impact of rice-husk biochar on *Colletotrichum falcatum*, the pathogen of sugarcane red rot disease. Indian Phytopathology 75 (2), 325-329, 2022