

**Programme 3-1: STUDIES ON HOST PATHOGEN
RELATIONSHIP AND MANAGEMENT OF SUGARCANE
DISEASES**

P1-90/3-1-1	<p>Screening for red rot resistance under artificial inoculation conditions</p> <ul style="list-style-type: none"> a. Screening for red rot resistance b. Climate changes issues sugarcane agriculture: assessing potential impact on pathogen virulence and host resistance
P1-90/3-1-2	<p>Characterisation of red rot pathotypes</p> <ul style="list-style-type: none"> a. Differential host studies b. Identification of sugarcane differentials
P1-12/3-1-8	<p>Screening of Indian hybridgenotypes against internode borer</p>
P1-08/3-1-10	<p>Mapping pathogenic and molecular variability of sugarcane smut in India</p>
P1-11/3-1-13	<p>Exploitation of endophytic bacteria for the management of sugarcane diseases</p>
P1-12/3-1-15	<p>Identification and characterization of genes / proteins related to <i>Colletotrichum falcatum</i> pathogenicity</p>
C1-12/3-1-16	<p>Structural characterisation and evaluation of toxin produced by <i>Colletotrichum falcatum</i> for sugarcane red rot disease management</p>

C1-12/3-1-17	Identification of anti-fungal genes and identifying sugarcane phytoalexins as marker for red rot resistance (SDF project)
P1-13/3-1-18	Evaluation of delivery methods with chemicals / microbes for the management of major fungal diseases in sugarcane a. Evaluation of delivery methods b. Validation of mechanized sett treatment device (DST project)
C1-14/3-1-19	Characterization of virus suppressor proteins in RNA viruses infecting sugarcane and developing transgenic sugarcane lines resistance to SCSMV and SCYLV through RNAi approach
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