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Title:	To evaluate the effect of two species of Trichoderma against Fusarium oxypsorum on in-vitro grown Banana plant
Publisher:	Birsa Agricultural University, Ranchi, Jharkhand-6
Language:	en_US
Type:	Thesis
Pages:	43
Agrotags:	null
Keywords:	To evaluate the effect of two species of Trichoderma against Fusarium oxypsorum on in-vitro grown Banana plant
Abstract:	The present work has been carried out with a view to study the interaction of two species of Trichoderma against Fusarium oxysporum f.sp. cubense (causing fusarium wilt of banana) on in vitro grown banana plant. Isolates of five strains of T.harzianum i.e; TH1, TH2, TH3, TH4 and TH6 and one strain of T.viride i.e; TV were studied against Fusarium oxysporum on dual-culture experiment. Maximum inhibition of mycelial growth was recorded with T.harzianum (TH6) and T.viride (TV). Inhibition percentage of TV for 5 days is 60.03% and 9 days is 75.94% and TH6 for 5 days is 71.70% and 9 days is 86.61%. The plants were treated for 3 and 5 days with the isolates of both the selected strain of Trichoderma under in vitro condition. Phytochemical analysis of different parameters and protein quantification (Bradford's assay) of treated plants were done. Evaluation of four different phytochemical parameter , Chlorophyll content increases upto 50- 60%, Anthocyanin content upto20-40 %, Total soluble sugar content4-60% proline decreases upto 40-50% and protein quantification was estimated based on absorption spectrophotometry.
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Subject:	Biotechnology

Theme:	To evaluate the effect of two species of Trichoderma against Fusarium oxypsorum on in-vitro grown Banana plant
These Type:	M.V.Sc.
Issue Date:	2017
Appears in Collections:	Thesis (/handle/1/93550)

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