## **Project Profile**

1. Project Title & Code : Identification and cloning of Gene(s) encoding Protein (s) toxic to

Trichosporium vesiculosum Butler (IFGTB/RP5/2000-2005)

2. Name of the : Dr. Modhumita Ghosh, Scientist G

**Principal Investigator** 

**3. Date of start & end;** : 2000-2003 (3 Years)

**Total duration** 

**4. Total Budget** : 1730000

5. Main Objectives : Identification of a source of toxic protein(s) against the blister bark

fungus Trichosporium vesiculosum. Purification of the protein(s) to homogeneity and their partial characterization. In vitro testing of the proteins against T. vesiculosum. Isolation and cloning of gene(s)

encoding the antifungal protein(s).

**6.Summary:** : Two broad spectrum, non race specific antifungal proteins were

purified in the present project including a 20 KD protein from Plumbago capensis and 39.5 KD protein from Andrographis paniculata. The proteins showed toxicity to the blister bark pathogen of Casuarina equisetifolia, Trichosporium vesiculosum. Further, a 16 KD antifungal protein from the bacterial exudates of Streptococcus spp. was also

purified