

CHAPTER 14

ENVIRONMENTAL STUDIES

Doctoral Theses

174. SHARMA (Deepika)
Arbuscular Mycorrhizal Fungal (AMF) Functioning in Stressed Habitats and the Role of Rhizospheric Interactions in Determining AMF Community Structures.
Supervisor : Dr. David Kothamasi
Th 21025

Contents

1. General introduction 2. Spatial variability and interspecific association patterns of arbuscular mycorrhizal fungal (AMF) communities of Aravalli Hills, India 3. Arbuscular mycorrhizal community structures in mangrove plants may be determined by host identity 4. Soil moisture regimes may influence arbuscular mycorrhizal fungal phylotype diversity in host roots 5. HCN producing *Pseudomonas protegens* CHA0 can affect intra radical viability of arbuscular mycorrhizal fungus *Glomus intraradices* in the roots of *Sorghum vulgare* in a green house experiment 6. General Discussion 7. Summary and conclusions.

175. THOMAS (Ashish)
Systematics, Reproductive Biology and Conservation of Indian Purple FROG, *Nasikabatrachus*
Supervisor : Dr. Sathyabhama Das Biju
Th 21026

Contents

1. Introduction 2. What is *Nasikabatrachus Sahyadrensis*? An integrative study on populations of a flagship endemic amphibian from Western Ghats India 3. Vocal behavior of the elusive purple frog of India (*Nasikabatrachus Sahyadrensis*), a fossorial species endemic to the Western Ghats 4. Reproductive biology of the Indian Purple frog, *Nasikabatrachus Sahyadrensis*, with

description of a novel mode of amplexus 5. Consumption of tadpoles *Nasikabatrachus Sahyadrensis* : Implications of a direct threat on the endangered Indian purple frog 6. Conservation assessment and status of the endangered Indian purple frog, *Nasikabatrachus Sahyadrensis*. Appendices.