

Project Profile

1. Project Title	:	Assessment of adaptive genetic diversity in teak and sandalwood to guide conservation and genetic improvement efforts Sub Project 1: Development of molecular signatures of local adaptation to enhance the climate change resilience of teak Sub Project 2: Documentation and management of adaptive genetic diversity in <i>Santalum album</i> (Indian sandalwood) for conservation and improvement programs.
2. Name of the Principal Investigator	:	Dr. R. Yasodha (Sub project 1) Dr. Modhumita Dasgupta (Sub project 2)
3. Funding Agency	:	Dept of Biotechnology, GoI
4. Date of start & duration	:	June 2019 & 3 Years
5. Total Budget	:	Rs. 152.90 lakhs

6. Objectives

- Identification local adaptations in teak populations using molecular signatures across different forest types/ environmental gradients
- Devise methodologies for assisted gene flow in teak with the information on local adaptations
- Documentation of adaptive variation in phenological traits across the natural distribution zones of sandalwood
- Identification of spatial genetic structure and molecular signatures of adaptation in sandalwood
- Outreach to state forest departments for conservation, restoration and breeding programs of sandalwood