

PROJECT PROFILE

Title:	Characterization of DNA barcoding genes in <i>Pterocarpus</i> species
Project Investigator:	Dr. A. Shanthi, Scientist-D
Co-investigators:	Dr. R. Yasodha, Scientist-G Dr. Modhumita Dasgupta, Scientist-F Dr. Kunhikannan, Scientist-F Dr. Maheswar Hegde, Scientist-E
Start and Completion dates:	01.11.2014 to 31.03.2018 (Four years)
Objectives:	To develop DNA barcode in <i>Pterocarpus</i> species.
Funding Agency:	Indian Council of Forestry Research and Education (ICFRE)

Summary:

Three barcode genes viz., *rbcL* of 650bp, ITS of 800bp and *psbA-trnH* of 350 bp in *Pterocarpus santalinus* and *Pterocarpus marsupium* were characterized. Nine DNA Barcodes were developed using *rbcL* and ITS genes in *P. marsupium*. Six DNA Barcodes were developed using *rbcL* and four DNA Barcodes using ITS genes in *Pterocarpus santalinu*. Putative interspecific and intraspecific single nucleotide polymorphisms were identified between *rbcL* consensus sequences of *Pterocarpus santalinus* and *Pterocarpus marsupium*.