

Datasheet No. A-253.003

(Family.Genus)

DBT- Network Programme

1. Genus: *Shorea* Roxb. ex Gaertn. f.

2. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Rosids
- Clade: Malvids
- Order: Malvales Juss.
- Family: Dipterocarpaceae Blume
- Genus: *Shorea* Roxb. ex C.F.Gaertn.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Guttiferales
- Ordo: Dipterocarpaceae Blume
- Genus: *Shorea* Roxb. ex C.F.Gaertn.

3. Species:

Global: 189

India: 4

4. Taxonomic riddles:

5. Distribution:

Global: Bangladesh, Bhutan, Borneo, Cambodia, India, Java, Laos, Malaya, Maluku, Myanmar, Nepal, Philippines, Sri Lanka, Sumatera, Thailand, Vietnam

India: Eastern Ghats, Tropical Himalaya, Western Ghats

6. Habit and Habitat: Tree; Dry deciduous forests to mixed evergreen forests

7. Economic Importance: Used for Timber. The tannin obtained from the leaves, bark and wood is used for tanning certain qualities of leather, paper, cellulose, etc.

8. DNA content range:

2C (0.682 – 0.692pg)¹2C (1.15±0.006 pg)⁴

Methodology

Flow cytometry¹Feulgen microdensitometry⁴9. Basic chromosome number(s): $x=7$ ¹10. Zygotic chromosome number(s): $2n=14^{2,3,5,6,14}$ 11. Gametic chromosome number(s): $n=7^{4,7,8,9,10}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ Neocentric chromosomes):

13. Ploidy level:Diploid²

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

16. Karyograms:

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: DNA level^{1,16,17,18,19}

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: