

# Genus Datasheet JamU+CalU+SUK-PhaseI

Datasheet No. A-253.001

(Family.Genus)

DBT- Network Programme

1. Genus:*Dipterocarpus* C. F. Gaertn.

2. Systematic position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

3. Species:

Global: 65

India: 11

4. Taxonomic riddles:

5. Distribution:

**Global:**Bangladesh, Borneo, Cambodia, China South-Central, East Himalaya, India, Jawa, Laos, Lesser Sunda Island, Malaya, Myanmar, Philippines, Sri Lanka, Sumatera, Thailand, Tibet, Vietnam.

**India:** Andaman Islands, Central India North-East India and Western Ghats.

6. Habit and Habitat:Tree;mixed forest type

7. Economic Importance:Used as Timber, medicinal

8. DNA content range:

2C (0.848-0.878 pg)<sup>6</sup>

Methodology

Flow cytometry<sup>6</sup>

9. Basic chromosome number(s):  $x=11^2$

10. Zygotic chromosome number(s): $2n=20^{1,4}$ ;  $2n=22^2$

11. Gametic chromosome number(s):

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

**13. Ploidy level:**Diploid<sup>2</sup>

**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<sup>7,8</sup>**

**20. Cytogenetic mechanism (s) underlying evolution:**

**21. Linkage map:**

**22. Any other information:**