

# Genus Datasheet    JamU+CalU+SUK-Phase I

Datasheet No. A-253.002  
(Family.Genus)

DBT- Network Programme

1. Genus:*Hopea* Roxb.

2. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Rosids
- Clade: Malvids
- Order: Malvales Juss.
- Family: Dipterocarpaceae Blume
- Genus: *Hopea* Roxb.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Guttiferales
- Ordo: Dipterocarpaceae Blume
- Genus: *Hopea* Roxb.

3. Species:

Global: 113

India: 12

4. Taxonomic riddles:

5. Distribution:

**Global:** Bangladesh, Borneo, Cambodia, China South-Central, China Southeast, Hainan, India, Java, Laos, Lesser Sunda Island, Malaya, Myanmar, New Guinea, Philippines, Sri Lanka, Sumatera, Thailand, Vietnam.

**India:** Andaman and Nicobar Islands, North-East India, Peninsular India.

6. Habit and Habitat: Tree; evergreen and semi-evergreen forests

7. Economic Importance: Wood used for construction work. The bark used in medicine

8. DNA content range:

2C

4C

Methodology

9. Basic chromosome number(s):  $x=7^{8,10}$

10. Zygotic chromosome number(s):  $2n=14^{1,3,4,10}$ ;  $2n=20^{5,6,7}$ ;  $2n=21^{2,6,7,8}$ ;  $2n=22^{6,7}$

11. Gametic chromosome number(s): $n= 7^{3,9,10}$
12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ Neocentric chromosomes):
13. Ploidy level:
14. Nature of polyploidy (auto, segmental, allo, autoallo):
15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):
16. Karyograms:<sup>10</sup> Meiosis:<sup>10</sup>
17. Banding pattern(s):
18. Physical mapping of chromosomes: GISH:
19. Phylogenetic relationship at Chromosomal; DNA level: DNA level<sup>11,12,13,14,15</sup>
20. Cytogenetic mechanism (s) underlying evolution:
21. Linkage map:
22. Any other information: