

Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-253.002.008
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Hopea odorata* Roxb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Doona odorata* (Roxb.) Burck, *Hopeadecandra* Buch.-Ham. ex Wight, *Neisandra indica* Raf.

3. Systematic Position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

4. Distribution:

Global: Bangladesh, Cambodia, India, Laos, Malaya, Myanmar, Thailand, Vietnam

India: Andaman Islands

5. **Indigenous/Exotic/Endemic; Cultivated/Wild:** Wild

6. Threat Status:

IUCN: Vulnerable

BSI:

7. **Habit and Habitat:** Tree; Grows along the streams in tropical evergreen forests.

8. **Life Form:** Phanerophyte

9. **Economic Importance:** Wood used for construction work. The bark used in medicine. The tannin obtained from the leaves, bark and wood is used for tanning certain qualities of leather.

10. **Probable Progenitor of:**

11. DNA

C-value

Methodology

12. **Basic chromosome number(s):**

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

14. **Gametic chromosome number(s):** $n=7^{3,9}$

15. **Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):**

Image file

16. Ploidy level:

Image file

17. Agametoploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:

Karyotype

Chromosome size 2.4 - 3.6 μm^3

NOR chromosome(s)

Degree of asymmetry

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):