

Final Species Datasheet JamU+CalU+SUK-PhaseI

Datasheet No. A-253.001.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dipterocarpus alatus* Roxb. ex G. Don

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Dipterocarpus gonopterus* Turcz., *D. incanus* Roxb., *D. philippinensis* F. O. W., *Hopea conduplicata* Buch.-Ham., *Oleoxylon balsamifera* Roxb.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Rosids
- Clade: Malvids
- Order: Malvales Juss.
- Family: Dipterocarpaceae Blume
- Genus: *Dipterocarpus* C.F. Gaertn.
- Species: *D. alatus* Roxb. ex G. Don

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Guttiferales
- Ordo: Dipterocarpaceae Blume
- Genus: *Dipterocarpus* C.F. Gaertn.
- Species: *D. alatus* Roxb. ex G. Don

4. Distribution:

Global: Bangladesh, Cambodia, India, Laos, Malaya, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam

India: East India and the Andaman Islands.

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

6. Threat Status:

IUCN: Vulnerable

BSI

7. **Habit and Habitat:** Lofty evergreen tree; Evergreen and semi-evergreen forests in low lying areas along the foot hills and valleys on fertile alluvial soils

8. **Life Form:** Phanerophyte

9. **Economic Importance:** Wood used for construction work, Oleo-resin is used for making plasters and torches. Hot decoction of bark is used in the treatment of rheumatic complaints

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s):

13. **Zygotic chromosome number(s):** $2n=20^1$; $2n=22^2$

14. Gametic chromosome number(s):

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 2.1- 4.7 μm^2

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^{3,4}

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