

Final Species Datasheet JamU+CalU+SUK-PhaseI

Datasheet No. A-253.001.006
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dipterocarpus hasseltii* Blume

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Dipterocarpus balsamiferus* Blume, *D. lampongus* Scheff., *D. pentagonus* A.DC., *D. quinquegonus* Blume, *D. subalpinus* Foxw., *D. tampurau* Korth.

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. hasseltii* Blume

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. hasseltii* Blume

4. Distribution:

Global: Vietnam, peninsular Thailand, Peninsular Malaysia, Sumatra, Java, Bali, Borneo and the Philippines, India

India: Andaman and Nicobar Island

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

6. Threat Status:

IUCN: Endangered

BSI

7. Habit and Habitat: Tree; well-drained but moist fertile red soils in lowland dipterocarp forest in valleys and on hillsides, up to 600 m altitude

8. Life Form: Phanerophyte

9. Economic Importance: Important source of keruing timber, wood-oil is frequently collected and used locally for caulking boats, varnish and illumination

10. Probable Progenitor of:

11. DNA

C-value

2C (0.874±0.006 pg)⁶

Methodology

Flow cytometry⁶

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):

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

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 (Aponixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):