Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-253.004.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species:*Vateria indica* L.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Vateria malabarica* Blume

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Rosids
- Clade: Malvids
- Order: Malvales Juss.
- Family: Dipterocarpaceae Blume
- Genus:*Vateria* L.
- Species:*V. indica* L.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Guttiferales
- Ordo:Dipterocarpaceae Blume
- Genus:*Vateria* L.
- Species:*V. indica* L.

4. Distribution:

Global: India

India: Karnataka, Kerala, Tamil Nadu,Western Ghats

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

6. Threat Status:

IUCN: Critically Endangered
BSI:

7. Habit and Habitat: Tree;evergreen forests of the Western Ghats up to 1300 m.

8. Life Form: Phanerophyte

9. Economic Importance: Wood is much in demand in plywood and veneer industry. Wood is suitable for paper pulp. Bark and leaf juice are medicinal. Yieldsgum resin used in varnish industry; Seeds yield a buttery substance used in candle making, in soap industry

10. Probable Progenitor of:

11. DNA

C-value **Methodology**

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): 2n=22[1]

14. Gametic chromosome number(s):n= 10[2]

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

Image file

16. Ploidy level: Diploid[1]

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 All are metacentric chromosomes[1]

Chromosome size1.16-2.21 μm[1]

NOR chromosome(s)

Degree of asymmetry Symmetrical according to Stebbins 4A category[1]

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):