

Species Datasheet

Datasheet No. P-007.002.001

(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Marattia fraxinea* Sm.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Marattiafraxinea var. *salicifolia* (Schrad.) C. Chr.

Marattiamicrocarpa Mett.

Marattiarobusta Alston

Marattiasalicifolia Schrad.

Marattiasorbifolia Sw.

Myriothecafraxinea (Sm.) Poir.

Myriothecafraxinifolia Bory

Myriotheacasorbifolia Bory

3. Systematic Position:

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- Class: Equisetopsida C. Agardh
- Subclass: Marattidae Klinge
- Order: Marattiales Link
- Family: Marattiaceae Kaulf.
- Subfamily:
- Genus: *Marattia* Swartz
- Species: *Marattia fraxinea* Sm.
- Subspecies:

4. Distribution:

Global: Tropics and subtropics of the World

India: Kerala (Palakkad and Idukki districts), Tamil Nadu (Kodaikanal)

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Terrestrial, Wet or marshy areas in evergreen forests.

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value	Methodology
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12. Basic chromosome number(s): $x=39^{1, 2, 3, 5}$

13. Zygotic chromosome number(s): $2n=156^5$

14. Gametic chromosome number(s): $n=78^{1, 2, 3, 5}$

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

Image file

16. Ploidy level: Tetraploid (sexual) $^{1, 2, 3, 5}$

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 78II^{1, 2, 3, 5}

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; Translocation etc.):