

Species Datasheet

Datasheet No. A-061.041.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cottoniapeduncularis*(Lindl.) Rchb.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Cottoniamacrostachya Wight

Vandabicaudata Thwaites

Vandapeduncularis Lindl.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link.
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Vandeae
- Subtribe: Aeridinae
- Genus: *Cottonia* Wight
- Species: *Cottonia peduncularis*(Lindl.) Rchb.f.

Bentham and Hooker(1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Vandeae

Genus: *Cottonia* Wight

Species: *Cottonia peduncularis*(Lindl.) Rchb.f.

4. Distribution:

Global: India and Sri Lanka at elevations of 300 to 600 m

India: Goa, Odisha, Karnataka, Kerala, Maharashtra, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Large sized hot to warm growing epiphyte

8.Life Form: Phanerophyte

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{1, 2}, 20^1$

13. Zygotic chromosome number(s): $2n=38^{2, 3}, 40^1$

14. Gametic chromosome number(s): $n=$

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

Image file

16.Ploidylevel:Diploid^{1, 2, 3}

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 (Apoixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):