

Species Datasheet

Datasheet No. P-045.009.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Cyrtomium caryotideum* (Wall. ex Hook. & Grev.) C. Presl

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidiumcaryotideum Wall. ex Hook. & Grev.

Aspidiumfalcatum var. *caryotideum* (Wall. ex Hook. & Grev.) Baker

Cyrtomiumcaryotideum var. *attenuatum* T. Moore

Cyrtomiumcaryotideum f. *attenuatum* (T. Moore) Ching

Cyrtomiumcaryotideum f. *caryotideum*

Cyrtomiumcaryotideum f. *hastosum* (Christ) Ching

Cyrtomiumfalcatum var. *caryotideum* (Wall. ex Hook. & Grev.) Bedd.

Dryopteriscaryotideum (Wall. ex Hook. & Grev.) Underw. ex A. Heller

Polystichumcaryotideum (Wall. ex Hook. & Grev.) Diels

3.Systematic Position:

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- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Cyrtomium* C.Presl.
- Species: *Cyrtomium caryotideum* (Wall. ex Hook. & Grev.) C.Presl
- Subspecies:
- Variety:

4.Distribution:

Global:China, Taiwan ,Bhutan, India, Japan, Nepal, Pakistan, Philippines, Vietnam

India: Eastern Himalaya, South India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Forests; 600-2700 m.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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12.Basic chromosome number(s): $x=41^{1, 2, 3, 4, 5, 8, 9, 12, 13}$

13. Zygotic chromosome number(s): $2n=123^{1, 2, 3, 4, 5, 8, 9, 12, 13}$

14. Gametic chromosome number(s): $n=123^{1, 2, 3, 4, 5, 9, 12, 13}$

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

Image file

16.Ploidy level:Triploid (apogamous) $^{1, 2, 3, 4, 5, 9, 12}$

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo): Allotriploid (three different genomes)^{3, 4, 5}

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 Triploid (Apogamous): 41II+41I in SMCs of 16-celled sporangium, 123II in 8-celled sporangium⁵,

123II in 8-celled sporangium^{1, 2, 3, 4, 9, 12},

123I in 16-celled sporangium^{3, 4}

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.): Apogamous^{1, 2, 3, 4, 5, 9, 12}