

Species Datasheet

Datasheet No. P-025.003.007

(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Cyathea gigantea* (Wall. ex Hook.) Holttum

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Alsophilagigantea* Wall. ex Hook.

3.Systematic Position:

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- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Cyatheales A.B.Frank in J.Leunis
- Family: Cyatheaceae Kaulf.
- Subfamily:
- Genus: *Cyathea* Seg.
- Species: *Cyathea gigantea* (Wall. ex Hook.) Holttum
- Subspecies:

4.Distribution:

Global: E Himalaya, S India, Sri Lanka, Burma, S China, Indochina, Peninsular Malaysia, Sumatra and W Java.

India: Eastern Himalaya, South India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Tree fern, On the banks of streams 1000-1500m

8.Life Form:Tree fern, perennial

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=69$ ^{3, 8, 6, 13}

13. Zygotic chromosome number(s): $2n=138$ ^{3, 8}

14. Gametic chromosome number(s): $n=69$ ^{6, 13}

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

Image file

16.Ploidy level:Diploid (sexual) ^{3, 6, 8, 13}

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

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 69II^{6, 13}

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.):