

Species Datasheet

Datasheet No. P-045.009.004
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Cyrtomium hookerianum* C. Chr.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Cyrtomiumtachiroanum (Luer ss.) C. Chr.

Phanerophlebiahookeriana Copel.

Phanerophlebiatachiroana (Luer ss.) Copel.

Polypodiumtachiroanum Luer ss.

Polystichumhookerianum C. Chr.

Polystichumintegripinnum Hayata

Polystichumtachiroanum (Luer ss.) Tagawa

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Cyrtomium* C. Presl.
- Species: *Cyrtomium hookerianum* C. Chr.
- Subspecies:

4.Distribution:

Global: Nepal, North-East India, China, Yunnan, Sichuan, Guizhou, Hunan, Guangxi Tibet, Myanmar, N Vietnam, Taiwan, Japan

India: North-East India

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

6.Threat Status:

IUCN:Least concern

BSI:

7.Habit and Habitat:On rocks and humus-rich soil bya small stream in dense lower montane forest at 1900–2000 m altitude, locally rare

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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12.Basic chromosome number(s): $x=41$ ⁷

13. Zygotic chromosome number(s): $2n=82$ ⁷ ,

123¹³

14. Gametic chromosome number(s): $n=41$ ^{10, 14} ,

123¹³

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

Image file

16.Ploidy level:Diploid (sexual)^{7, 10, 14},

Triploid (apogamous)¹³

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 Diploid: $41\text{II}^{10, 14}$,

Triploid (apogamous): 8-celled sporangium 123II^{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.): Apogamy¹³