

Species Datasheet

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Datasheet No. P-042.015.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Macrothelypteris ornata* Ching

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: Nil

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Thelypteridaceae Pic. Serm.
- Subfamily:
- Genus: *Macrothelypteris* (H.Itô) Ching
- Species: *Macrothelypteris ornata* Ching
- Subspecies:
- Variety:

4.Distribution:

Global:India, N Burma and Taiwan

India: S & N India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:herb- terrestrial, On clayey ground in open or half-shaded places at 600–800 m alt.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=31^{9, 10}$

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

14. Gametic chromosome number(s): $n=31^{9, 10}$

Loyal, D. S. 1991.Cytomorphological studies in the eastern Himalayan Thelypteridaceae. In: T. N. Bhardwaj& C. B. Gena (editors), Perspectives in Pteridology: Present and Future. Aspects Pl. Sci. 13: 171–248.

Khullar et al 1983

62^{11}

Manickam, V. S. 1984. Cytology of thirty species of ferns from the Palni Hills (South India).Cytologia 49: 49–59.

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

Image file

16.Ploidy level: Diploid (sexual)^{9, 10}

Loyal, D. S. 1991. Cytomorphological studies in the eastern Himalayan Thelypteridaceae. In: T. N. Bhardwaj & C. B. Gena (editors), Perspectives in Pteridology: Present and Future. Aspects Pl. Sci. 13: 171–248.

Khullar et al 1983

Tetraploid (sexual) ¹¹ Manickam, V. S. 1984. Cytology of thirty species of ferns from the Palni Hills (South India). Cytologia 49: 49–59.

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 meiosisDiploid: $31\text{II}^{9,10}$

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Tetraploid: 62II^{11} Manickam, V. S. 1984. Cytology of thirty species of ferns from the Palni Hills (South India).Cytologia 49: 49–59.

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;Translocationsetc.):