

Species Datasheet

Datasheet No. P-030.007.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Cheilanthes albomarginata* C.B. Clarke

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aleuritopteris albomarginata (C.B. Clarke) Ching

Aleuritopteris subrufa (Baker) Ching

Cheilanthes farinosa var. *albomarginata* (C.B. Clarke) Bedd.

Cheilanthes leveillei Christ

Cheilanthes subrufa Baker

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Pteridaceae E.D.M. Kirchn
- Subfamily: Cheilanthoideae W.C. Shieh
- Genus: *Cheilanthes* Sw.
- Species: *Cheilanthes albomarginata* C.B.Clarke
- Subspecies:

4.Distribution:

Global: China (Guangxi, Guizhou, Sichuan, S Xizang, Yunnan), Bhutan, India, Kashmir, Nepal, Pakistan

India: Western Himalayas

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Rock crevices on slopes; 1300-2700 m

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=29^{7, 8, 15, 25, 29, 30}, 60^{22, 29}$

13. Zygotic chromosome number(s): $2n=58^{3, 8}, 60^{22}$

14. Gametic chromosome number(s): $n=29^{7, 8, 15, 25, 29, 30}, 30^{22}, c.30^{29}, 58^9$

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

Image file

16.Ploidy level: Diploid (sexual) $^{7, 8, 15, 22, 25, 29, 30}$

Tetraploid (sexual) 9

Mahabale & Kamble 1981

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: 29II^{15, 25, 29, 30} Verma & Loyal 1960a, Verma 1961b, Verma & Khullar 1965a
Punetha 1989

Tetraploid: 58II⁹ **Mahabale & kamble 1981**

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.):**