

Species Datasheet

Datasheet No. P-030.007.007
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Cheilanthes farinose* (Forssk.) Kaulf.

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: Pteridaceae E.D.M. Kirchn
- Subfamily: Cheilanthoideae W.C. Shieh
- Genus: *Cheilanthes* Sw.
- Species: *Cheilanthes farinosa* (Forssk.) Kaulf.
- Subspecies:

4.Distribution:

Global:From China through much of Asia to North Africa going southwards to angola, Zambia, Zimbabwe and Malawi.

India: Himalayas, peninsular India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Terrestrial herbs, In grasslands, moist deciduous semi-evergreen and evergreen forests.,
880 - 1770 m

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=29^{1, 9, 10, 25, 30}, 30^{2, 4, 7, 8, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 29, 31}$

13. Zygotic chromosome number(s): $2n=60^{11, 21, 22, 31}, 90^{11, 26}, 120^{11}$

14. Gametic chromosome number(s): $n=29^{25, 30},$

$30^{2, 4, 7, 8, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 29, 31},$

$58^{1, 9, 10},$

$60^{11},$

$c.87^{10}$

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

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16.Ploidy level:Diploid (sexual) $^{2, 4, 7, 8, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 29, 30, 31}$

Triploid $^{10, 11, 26},$

Tetraploid(sexual) ^{1, 9, 10, 11} ,

Hexaploid¹⁰

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: $29\text{II}^{25, 30}, 30\text{II}$ 2, 4, 7, 8, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 29

Tetraploid: $58\text{II}^{1, 9}$

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.):