

Species Datasheet

Datasheet No. P-030.008.004
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cheilosoria tenuifolia* (Burm. f.) Trevis.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Acrostichum tenue Retz.

Adiantum cicutaefolium Lam.

Cassebeeratenuifolia (Burm. f.) J. Sm.

Cheilanthes contigua Baker

Cheilanthes semiglabra (Kunze) Fée

Cheilanthes tenuifolia (Burm. f.) Sw.

Notholaena semiglabra Kunze

Trichomanes tenuifolium Burm. f.

3. Systematic Position:

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- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Pteridaceae E.D.M. Kirchn
- Subfamily: Cheilanthes W.C. Shieh
- Genus: *Cheilosoria* Trevisan
- Species: *Cheilosoria tenuifolia* (Burm.f.) Trevis.
- Subspecies:
- Variety:

4. Distribution:

Global: Tropics of Asia and Oceania, from India and S China through Malaysia to Polynesia, Australia and New Zealand.

India: Himalaya, Peninsular India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:On rather dry clayey banks of paths in mixed forests at low altitudes

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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12.Basic chromosome number(s): $x=28^{2, 5, 6, 10, 11, 15, 16, 17, 18}, 30^{14}$

13. Zygotic chromosome number(s): $2n=56^{18}, 120^{14}, 108^4$

14. Gametic chromosome number(s): $n=60^{14},$

$56^{2, 5, 6, 10, 11, 15, 16, 17, 18},$

$c.56^8,$

$c.58^9$

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

Image file

16.Ploidylevel:Diploid (apogamous) ¹⁸,
Tetraploid (sexual) ^{2, 4, 5, 6, 8, 10, 11, 14, 15, 16, 17}

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 (apogamous) 56II Verma 1961b

Tetraploid: 60II¹⁴, 56II^{2, 5, 6, 10, 11, 15, 16, 17}

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.):