

Species Datasheet

Datasheet No. P-037.001.046
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Asplenium* *varians* Wall. ex Hook. & Grev.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Asplenium lankongense Ching

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Aspleniaceae Newman
- Subfamily:
- Genus: *Asplenium* L.
- Species: *Asplenium varians* Wall. ex Hook. & Grev.
- Subspecies:
- Variety:

4. Distribution:

Global: Oceania

India: Throughout Himalayas, South India

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Grows on moist shady rocks or clayey soil at 1500-2700m

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=36^{3, 4, 10, 21, 38, 46, 49, 80, 108}$

13. Zygotic chromosome number(s): $2n=72^{3, 4, 6, 10, 21, 56, 67, 96, 144^{4, 121}}$

14. Gametic chromosome number(s): $n=36^{3, 4, 10, 21, 38, 46, 49, 80, 108, 72^{3, 4, 24, 60, 88, 121, 142, 143}}$

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

Image file

16.Ploidy level:Diploid (sexual) $^{3, 4, 6, 10, 21, 38, 46, 49, 56, 67, 80, 96, 108,}$

Tetraploid (sexual) $^{3, 4, 24, 60, 88, 121, 142, 143}$

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: $36\text{II}^{4, 6, 10}$, Tetraploid: $72\text{II}^{4, 10}$

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.):