

Species Datasheet

Datasheet No. P-034.001.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Allantodia aspera* (Blume) Ching

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Asplenium asperum Mett.

Athyrium asperum (Blume) Milde

Diplazium asperum Blume

Diplazium polypodioides Blume

Microstegia aspera (Blume) C. Presl

3. Systematic Position:

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- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Diplaziopsidaceae X.C. Zhang & Christenh.
- Subfamily:
- Genus: *Allantodia* R.Br.
- Species: *Allantodia aspera* (Blume) Ching
- Subspecies:
- Variety:

4. Distribution:

Global: southern China, India, Sri Lanka, Myanmar, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia, Philippines, New Guinea.

India: Eastern Himalaya, South India 1500-2400 m

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:large, evergreen fern,found in forests, from sea level to about 900 metres in India

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=41^{1, 2, 4, 6, 5, 7, 8, 10, 11, 13, 14, 15, 17, 18, 20, 24, 27}$

13. Zygotic chromosome number(s): $2n=82^{1, 20, 21, 24, 26}, 164^{25}$

14. Gametic chromosome number(s): $n=41^{1, 2, 4, 6, 5, 7, 8, 10, 11, 13, 14, 15, 17, 18, 20, 24, 27}, 82^{19, 22, 25}$

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

Image file

16.Ploidy level:Diploid (sexual) $^{1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 15, 14, 15, 18, 20, 21, 24, 26, 27}$,
Tetraploid (sexual) $^{19, 22, 25}$

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:²⁶

Karyotype Median, submedian and subterminal²⁶

Chromosome size Small²⁶

NOR chromosome(s)

Degree of asymmetry Moderately asymmetrical²⁶

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: 41II^{1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 14, 15, 17, 19, 20, 27}

Tetraploid: 82II^{19, 22, 25}

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.):