

Species Datasheet

Datasheet No. P-034.001.004
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Allantodia maxima* (D. Don) Ching

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspleniummaximum D. Don

Diplaziummaximum (D. Don) C. Chr.

3.Systematic Position:

Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Diplaziopsidaceae X.C. Zhang &Christenh.
- Subfamily:
- Genus: *Allantodia* R.Br.
- Species: *Allantodia maxima* (D.Don) Ching
- Subspecies:
- *Variety*:

4.Distribution:

Global:China (Fujian, Guangxi, Guizhou, Hainan, Jiangxi, Yunnan), Taiwan, Philippines (Mindanao), Japan, Nepal, Bhutan, India (Himachal Pradesh, Uttar Pradesh, Sikkim, Darjeeling, Arunachal Pradesh, Meghalaya), Vietnam, Pakistan, Sulawesi

India: Confined to eastern Himalayas from Kumaon to Darjeeling extending to Assam and Khasi hills

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows on forest floor in dense forests 1200-2400m

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=41^{2, 6, 7, 8}$

13. Zygotic chromosome number(s): $2n=123^{2, 6, 7, 8}, 164^{2, 6, 7, 8}$

14. Gametic chromosome number(s): $n=123^{2, 6, 7, 8}, 164^{2, 6, 7, 8}, c.114^{29}$

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

Image file

16.Ploidylevel:Triploid (apogamous) $^{2, 6, 7, 8}$, Tetraploid (apogamous) $^{2, 6, 7, 8}$

Hexaploid ? (aneuploid) 29

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 Triploid (apogamous) : 8-celled sporangium 123II^{2, 6, 7, 8}

Tetraploid (apogamous):8-celled sporangium 164II^{2, 6, 7, 8}, Hexaploid (aneuploid) 114II²⁹

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.): Apogamous^{2, 6, 7, 8, 29}