

Species Datasheet

Datasheet No. P-045.006.006
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Polystichum biaristatum* (Blume) T. Moore

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidiumaculeatum var. *biaristatum* (Blume) C.B. Clarke

Aspidiumbiaristatum Blume

Polystichumaculeatum var. *biaristatum* (Blume) Bedd.

Polystichumaculeatum var. *durissima* Rosenst.

Polystichumsubapiciflorum Hayata

3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Dryopteridaceae Herter
- Subfamily: Dryopteridoideae B.K. Nayar
- Genus: *Polystichum* Roth
- Species: *Polystichum biaristatum* (Blume) T. Moore
- Subspecies:
- Variety

4.Distribution:

Global: Sri Lanka, N India, S China, Taiwan and Java.

India: Eastern Himalayas, South India-Shevroy Hills

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:On humus-rich floor of dense evergreen forests at 900–1400 m alt.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=41^{57, 58}$

13. Zygotic chromosome number(s): $2n=164^{8, 35}$

14. Gametic chromosome number(s): $n=41^{57, 58}$,
 $82^{8, 15, 35}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{57, 58}$,

Tetraploid (sexual) $^{8, 15, 35}$

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: $41\text{II}^{57, 58}$,

Tetraploid: $82\text{II}^{8, 15, 35}$

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.):