

Species Datasheet

Datasheet No. P-045.002.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Arachniodes aristata* (G. Forst.) Tindale

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidium aristatum (G. Forst.) Sw.

Byrsopteris aristata (G. Forst.) C.V. Morton

Dryopteris aristata (G. Forst.) Kuntze

Lastreoides aristata (G. Forst.) T. Moore

Nephrodium aristatum (G. Forst.) C. Presl

Polypodium aristatum G. Forst.

Polystichopsis aristata (G. Forst.) Holttum

Polystichum aristatum (G. Forst.) C. Presl

Polystichum lobatum var. *aristatum* (G. Forst.) C. Chr.

Rumohra aristata (G. Forst.) Ching

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: *Arachniodes* Blume
- Species: *Arachniodes aristata* (G. Forst.) Tindale
- Subspecies:
- Variety:

4.Distribution:

Global:China (Anhui, Fujian, Guangdong, Guangxi, Guizhou, Henan, Hunan, Jiangsu, Jiangxi, Shandong, Zhejiang), Taiwan, Japan, Ryukyu Isl., South Korea, India (Sikkim, Darjeeling, Meghalaya, Nagaland, Nilgiri Hills), Nepal, Bhutan, Myanmar [Burma], Sri Lanka, Australia (E-Queensland, E-New South Wales), Tonga (Late Isl., 'Eua), peninsular Malaysia, Philippines, Vietnam, Sulawesi, Kermadec Isl., Borneo (Mt. Kinabalu, etc.), Norfolk Isl., Lord Howe Isl., Southern Marianas (Guam), Fiji (VitiLevu, Kadavu, Ovalau), New Caledonia, Cook Isl. (Rarotonga), Society Isl. (Tahiti), Western Samoa (Savaii, Upolu), Pitcairn Isl., Austral Isl. (Rapa Iti, Tubuai, Rurutu), Marquesas Isl. (NukuHiva, UaHuka, UaPou, HivaOa, Tahuata, FatuHiva)

India: Sikkim, Darjeeling, Meghalaya, Nagaland, Nilgiri Hills

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Terrestrial, In well drained floor of evergreen forests

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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12.Basic chromosome number(s): $x=41^{1, 2, 3}$

13. Zygotic chromosome number(s): $2n=164^{1, 2, 3}$

14. Gametic chromosome number(s): $n=41^{1, 3}, 82^{1, 2, 3}$

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

Image file

16.Ploidylevel:Diploid (sexual)^{1, 3}

Tetraploid (sexual)^{1, 2, 3}

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: $41\text{II}^{1, 3}$

Tetraploid: $82\text{II}^{1, 2, 3}$

Tetraploid (sterile) : 82II (post meiotic supernumerary division forming 8 aberrant spores)²

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.):