

Species Datasheet

Datasheet No. P-045.006.010
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Polystichum discretum* (D. Don) J. Sm.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aspidium discretum D. Don

Polystichum aculeatum var. *nigropaleaceum* Christ

Polystichum fuscopaleaceum Alston

Polystichum indicum Khullar & S.C. Gupta

Polystichum kathmanduense Nakaike

Polystichum lobatum var. *discretum* (D. Don) C. Chr.

Polystichum nigropaleaceum (Christ) Diels

Polystichum setiferum var. *crenatum* N.C. Nair

Polystichum setiferum var. *fuscopaleaceum* (Alston) Schelpe

Polystichum setiferum var. *nigropaleaceum* (Christ) Sledge

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 discretum* (D. Don) J. Sm.
- Subspecies:
- Variety

4. Distribution:

Global: Tibet (Nyingchi, Medog), China (Yunnan), India, Pakistan (Swat, Hazara), Myanmar, Bhutan, Nepal, Sri Lanka, Nepal, Japan

India: Himachal Pradesh, Uttar Pradesh, Sikkim, Darjeeling, Arunachal Pradesh, Meghalaya, Manipur

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=41^{5, 16, 22, 23, 37, 45}$

13. Zygotic chromosome number(s): $2n=82^{16, 23, 37, 164}^{34}$

14. Gametic chromosome number(s): $n=41^{5, 16, 22, 23, 37, 45}$

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

Image file

16.Ploidy level:Diploid (sexual)^{5, 16, 22, 23, 37, 45} ,

Tetraploid (sexual) ³⁴

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 41II 5, 16, 22, 23, 37, 45

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.):