

# Species Datasheet

Datasheet No. P-045.006.034  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

**Species:** *Polystichum squarrosum* (D. Don) Fée

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

*Aspidium squarrosum* D. Don

*Polystichum apicisternale* Ching & S.K. Wu

*Polystichum integripinnulum* 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: *Polystichum* Roth
- Species: *Polystichum squarrosum* (D. Don) Fée
- Subspecies:
- Variety:

## 4. Distribution:

**Global:** India, Pakistan (Pakistani Punjab, Hazara), China (S Xizang), Bhutan, Nepal, S-Tibet

**India:** Himachal Pradesh, Uttar Pradesh, Sikkim, Darjeeling, Nagaland, Arunachal Pradesh, Manipur, Meghalaya, Kashmir

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

**6.Threat Status:**

**IUCN:**

**BSI:**

**7.Habit and Habitat:**Forests; 1900-2400 m

**8.Life Form:**

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

**C-value            Methodology**

**12.Basic chromosome number(s):** $x=41^{16,21, 22, 23, 39, 45, 58, 59}$

**13. Zygotic chromosome number(s):** $2n=82^{16, 21, 58, 59}$  ,

$c.80^{16}$ ,

$164^{37}$

**14. Gametic chromosome number(s):** $n=41^{22, 23, 39, 45, 58, 59}$  ,

$82^{15}$

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

Image file

**16.Ploidylevel:**Diploid (sexual)<sup>16, 21, 22, 23, 39, 45, 58, 59</sup>,

Tetraploid (sexual)<sup>15, 37</sup>

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:  $41\text{II}^{22, 23, 39, 45, 58, 59}$

Tetraploid:  $82\text{II}^{15}$

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.):**