

# Species Datasheet

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Datasheet No. P-045.010.036  
(family.genus.species)

DBT- Network Programme

## 1.Taxon:

**Species:** *Dryopteris panda* (C.B. Clarke) Christ

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

*Aspidium filix-mas* var. *panda* (C.B. Clarke) Christ

*Dryopteris bonatiana* (Brause) Fraser-Jenk.

*Dryopteris filix-mas* subsp. *panda* (C.B. Clarke) C. Chr.

*Dryopteris yui* Ching

*Lastreafilix-mas* var. *panda* (C.B. Clarke) Bedd.

*Nephrodium filix-mas* var. *panda* C.B. Clarke

*Nephrodium pandum* C. Hope

*Polystichum bonatianum* Brause

## 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: *Dryopteris* Adans.
- Species: *Dryopteris panda* (C.B.Clarke) Christ
- Subspecies:
- Variety:

## 4.Distribution:

**Global:**China, Nepal, India, Pakistan

**India:** Himachal Pradesh, Uttarakhand, eastern Himalayas and NE-India

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

**6.Threat Status:**

**IUCN:**

**BSI:**

**7.Habit and Habitat:**Mixed forests; 1300-3100 m.

**8.Life Form:**

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

| C-value | Methodology |
|---------|-------------|
|---------|-------------|

**12.Basic chromosome number(s):** $x=41^{38, 43, 56, 90}$

**13. Zygotic chromosome number(s):** $2n=c.82^{34}$

**14. Gametic chromosome number(s):** $n=41^{38, 43, 56, 90},$   
 $82^{43, 56}$

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

Image file

**16.Ploidylevel:**Diploid (sexual) <sup>34, 38, 43, 56, 90,</sup>

Tetraploid (sexual)<sup>38, 43, 56</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:  $41\text{II}^{38, 43, 56, 90}$ ,

Tetraploid:  $82\text{II}^{38, 43, 56}$

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.):**