

# Species Datasheet

Datasheet No. P-045.010.043  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

**Species:** *Dryopteris serratodentata* Hayata

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

*Dryopteris filix-mas* var. *serratodentata* Hayata

*Dryopteris filix-mas* subsp. *serratodentata* C. Chr.

*Nephrodium serratodentatum* C. Hope

*Woodsia veitchii* Christ

## 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 serratodentata* Hayata
- Subspecies:
- Variety:

## 4. Distribution:

**Global:** China (W-Sichuan, NW-Yunnan), SE-Tibet, Taiwan, India, Bhutan, Myanmar [Burma], Pakistan (Hazara), Nepal

**India:** Himachal Pradesh, Uttar Pradesh, Sikkim, Darjeeling, Arunachal Pradesh, Kashmir

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

**6.Threat Status:**

**IUCN:**

**BSI:**

**7.Habit and Habitat:***Abies* forests, also in exposed rock crevices; 3100-3800 m

**8.Life Form:**

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

**C-value            Methodology**

**12.Basic chromosome number(s):** $x=41^{46, 56}$

**13. Zygotic chromosome number(s):** $2n=123^{56},$

$164^{19}$

**14. Gametic chromosome number(s):** $n=41^{46, 56},$

$82^{43, 56, 98},$

$123^{56}$

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

Image file

**16.Ploidylevel:**Diploid (sexual)<sup>46, 56,</sup>

Tetraploid (sexual)<sup>19, 43, 56, 97,</sup>

Triploid (apogamous)<sup>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:  $41\text{II}^{46, 56}$ ,

Tetraploid:  $82\text{II}^{43, 56, 97}$ ,

Triploid (apogamous): 8-celled sporangium  $123\text{II}^{56}$

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.): Apogamy<sup>56</sup>