

# Species Datasheet

Datasheet No. P-041.004.003  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

**Species:** *Deparia boryana* (Willd.) M. Kato

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

*Aspidiumboryanum* Willd.

*Aspidiumdivisum* (Wall. ex Hook.) Wall. ex Thwaites

*Aspidiumedentulum* Kunze

***Athyriumboryanum*** (Willd.) Tagawa

*Athyriumedentulum* (Kunze) Ching

*Cornopterisboryana* (Willd.) Tardieu

*Ctenitishoryana* (Willd.) Copel.

*Depariaglabrata* M. Kato

***Dryoathyriumboryanum*** (Willd.) Ching

*Dryoathyriumedentulum* (Kunze) Ching

***Dryopterisboryana*** (Willd.) C. Chr.

*Dryopterisdivisa* (Wall. ex Hook.) Kuntze

*Dryopterisedentula* (Kunze) Kuntze

*Dryopteriskingii* (Bedd.) C. Chr.

*Lastreaboryana* (Willd.) T. Moore

*Lastreadivisa* (Wall. ex Hook.) Bedd.

*Lastreaedentula* (Kunze) T. Moore

*Lunathyriumboryanum* (Willd.) H. Ohba

*Nephrodiumboryanum* (Willd.) Hook.

*Nephrodiumboryanum* var. *microstegioides* C.B. Clarke

*Nephrodiumcatopteron* Hook.

*Nephrodiumdivisum* Wall. ex Hook.

*Nephrodiumedentulum* (Kunze) Baker

*Parathyriumboryanum* (Willd.) Holttum

*Phegopteriskingii* Bedd.

*Polypodiumsubtripinnatum* C.B. Clarke

### 3. Systematic Position:

#### Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Athyriaceae Alston
- Subfamily:
- Genus: *Deparia* Hook & Grev.
- Species: *Deparia boryana* (Willd.) M. Kato
- Subspecies:
- Variety:

### 4. Distribution:

**Global:** China (Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hunan, Shaanxi, Sichuan, SE-Yunnan, Zhejiang), (not Taiwan), SE-Tibet, Japan, Nepal, Sri Lanka, Myanmar [Burma], Vietnam, Philippines, peninsular Malaysia (Perak), Borneo (Mt. Kinabalu, etc.), India (N-India, S-India), Java, N-Thailand, Sulawesi, Moluccas (Seram), Fiji (Taveuni, Vanua Levu), Zimbabwe, Mozambique, Bioko Isl. (Fernando Poo), Uganda, Kenya, Tanzania, Madagascar, La Réunion, Comores, Liberia, Ivory Coast, Ghana, Nigeria, Cameroon, Congo, Rwanda, Ethiopia

**India:** Himalayas, Peninsular India

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

### 6. Threat Status:

**IUCN:**

**BSI:**

**7. Habit and Habitat:** Deeply shaded streambanks in wet evergreen forest, often where there is a break in the canopy thus allowing slightly more light.

### 8. Life Form:

### 9. Economic Importance:

### 10. Probable Progenitor of:

## 11.DNA

C-value            Methodology

12.Basic chromosome number(s): $x=40^{8, 10, 15, 26, 29, 41^{17}}$

13. Zygotic chromosome number(s): $2n=80^{29, 120^{1, 2}}$

14. Gametic chromosome number(s): $n=40^{8, 10, 15, 26, 29, 41^{17}, 120^{1, 2, 14, 33, 34}}$

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

Image file

16.Ploidylevel:Diploid (sexual) $^{8, 10, 15, 17, 29,}$

Triploid (apogamous) $^{1, 2,}$

Hexaploid (sexual) $^{14, 33, 34}$

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

**20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):**

**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: 40II<sup>8, 10, 15, 26, 29</sup>, 41II<sup>17</sup>

Triploid (apogamous): 8-celled sporangium 120II<sup>1, 2</sup>

Hexaploid: 120II<sup>14, 33, 34</sup>

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.):** Apogamous<sup>1, 2</sup>