

# Species Datasheet

Datasheet No. P-041.004.004  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

**Species:** *Deparia japonica* (Thunb.) M. Kato

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

*Asplenium japonicum* Thunb.

*Athyriopsis japonica* (Thunb.) Ching

*Athyrium japonicum* (Thunb.) Copel.

*Diplazium japonicum* (Thunb.) Bedd.

*Diplazium japonomettenianum* Nakai

*Diplazium thunbergii* Nakai ex Momose

*Lunathyrium japonicum* (Thunb.) Sa. Kurata

## 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 japonica* (Thunb.) M. Kato
- Subspecies:
- Variety:

## 4. Distribution:

**Global:** China (Anhui, Chongqing, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Shandong, Shanghai, Sichuan, Yunnan, Zhejiang), Japan, North Korea, South Korea, Ryukyu Isl., Cheju Isl., Russian Far East, India (throughout, in mountainous regions), Pakistan, peninsular Malaysia, Vietnam, Sri Lanka, Myanmar [Burma], Philippines, Fiji (introduced), South Africa (introduced) (KwaZulu-Natal (introduced), Mpumalanga (introduced), Limpopo (introduced), E-Cape Prov.

(introduced)), Lesotho (introduced), Swaziland (introduced)

**India:** ,throughout, in mountainous regions, Himalayas and South India, 200-600m

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

**6.Threat Status:**

**IUCN:**

**BSI:**

**7.Habit and Habitat:**Terrestrial, usually along perennial streams in deep shade in evergreen forests

**8.Life Form:**

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

**C-value            Methodology**

**12.Basic chromosome number(s):** $x=40^{4, 5, 6, 28, 30, 33, 34}, 41^{3, 22, 23, 32}$

**13. Zygotic chromosome number(s):** $2n=164^{22, 23},$

$240^{16, 19},$

$c.240^{20},$

$246^{1, 2}$

**14. Gametic chromosome number(s):** $n=40^{4, 5, 6, 28, 30, 33, 34},$

80<sup>4, 5, 6, 8, 9, 10, 18, 28</sup> ,

82<sup>3, 22, 31</sup> ,

120<sup>16, 27, 32</sup> ,

123<sup>1, 2</sup> ,

200<sup>4, 5, 6, 8, 9</sup>

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

Image file

**16.Ploidylevel:**Diploid (sexual)<sup>4, 5, 6, 8, 9, 28, 30, 33, 34</sup> ,

Tetraploid (sexual)<sup>3,4, 5, 6, 7, 8, 9, 18, 22, 23, 28, 31</sup> ,

Pentaploid (Hybrid)<sup>4, 5, 6, 8, 9</sup> ,

Hexaploid (sexual)<sup>1, 2, 16, 19, 20, 27, 32</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:  $40\text{II}^{4, 5, 6, 8, 9, 28, 30, 33, 34}$

Tetraploid:  $80\text{II}^{4, 5, 6, 7, 8, 9, 10, 18, 28}$ ,  $82\text{II}^{3, 22, 31}$

Pentaploid:  $1\text{V}+13\text{IV}+5\text{III}+38\text{II}+52\text{I}$ ,  $11\text{IV}+2\text{III}+50\text{II}+50\text{I}$ ,  $2\text{V}+7\text{IV}+6\text{III}+49\text{II}+46\text{I}$ ,

$3\text{V}+6\text{IV}+8\text{III}+42\text{II}+53\text{I}$ ,  $3\text{V}+6\text{IV}+9\text{III}+43\text{II}+48\text{I}^{4, 5, 6, 8, 9}$

Hexaploid :  $120\text{II}^{16, 27, 32}$ ,  $123\text{II}^{1, 2}$

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.):**