

# Species Datasheet

Datasheet No. A-140.034.003  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Smithiaciliata* Royle

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Damapanaciliata* (Royle) Kuntze, *Smithiacavaleriei* H. Lev., *S. cavaleriei* H. Lév., *S. coeruleascens* Zoll. & Morong, *S. japonica* Maxim., *S. nagasawai* Hayata, *S. pumila* Royle ex Wight & Arn.

## 3. Systematic Position:

### Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Dicotyledons

Subclass: Polypetalae

Series: Calyciflorae

Cohors: Rosales Bercht. & J. Presl

Ordo: Leguminosae Juss.

Subordo: Papilionaceae Giseke

Genus: *Smithia* Aiton

Species: *S. ciliata* Royle

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Genus: *Smithia* Aiton
- Species: *S. ciliata* Royle

## 4. Distribution:

**Global:** Bhutan, China, India, Indonesia, Japan, Lesser Sunda Island, Myanmar, Nepal, Philippines, Sulawesi, Taiwan, Thailand, Vietnam

**India:** Arunachal Pradesh, Bihar, Himachal Pradesh, Meghalaya, Nagaland, Orissa, Sikkim, Uttar Pradesh, West Bengal

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

**6. Threat Status:**

**IUCN:**

**BSI:**

**7. Habit and Habitat:** Herb. Found in Roadsides, mountains, wetlands

**8. Life Form:** Chamaephyte

**9. Economic Importance:**

**10. Probable Progenitor of:**

**11. DNA**

**C-value**                      **Methodology**

**12. Basic chromosome number(s):**  $x=19^8$

**13. Zygotic chromosome number(s):**  $2n=38^{8,9}$

**14. Gametic chromosome number(s):**  $n=19^{8,9}$

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

Image file

**16. Ploidy level:**

Image file

**17. Agameteoploidy:**

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

**19. Genomic formula:**

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

## 21. Somatic chromosomes:<sup>8</sup>

**Karyotype** Majority metacentric chromosomes

**Chromosome size** Medium

**NOR chromosome(s)**

**Degree of asymmetry** Symmetrical

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** 19II+ IV<sup>8,9</sup>

Image file

## 27. Chromosome distribution at anaphase I: 19:19<sup>8,9</sup>

## 28. Genetic diversity:

**Chromosomal level**

Image file

**DNA level**

## 29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis;

**Pollen stainability; Translocation etc.):** Pollen stainability: 95.2%<sup>9</sup>