

# Species Data Sheet

Datasheet No. A-078.004.001  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Floscopascandens* Lour.

Subspecies

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Aneilemaasperum* Buch.-Ham ex Wall., *A. cymosum* (Blume) Kunth, *A. densiflorum* (Blume) Kunth, *A. hispidum* D. Don, *Commelinacymosa* Blume, *C. densiflora* Blume, *C. hamiltonii* Spreng., *C. hispida* (D. Don) Ham ex Spreng., *Dithyrocarpus meyenianus* Kunth, *D. paniculatus* (Roxb.) Kunth, *D. petiolatus* Wight, *D. rothii* Wight, *D. rufus* (C. Presl) Kunth, *D. undulatus* Wight, *Floscopahamiltonii* (Spreng.) Hassk., *F. meyeniana* (Kunth) Hassk., *F. niculata* (Roxb.) Hassk., *F. petiolata* (Wight) Hassk., *F. rufa* (C. Presl) Hassk., *F. scandens* var. *vaginivillosa* R.H. Miao, *F. undulata* (Wight) Hassk., *Lamprodiathyrospaniculatus* (Roxb.) Hassk., *Tradescantiageniculata* Blanco, *T. paniculata* Roxb., *T. rufa* C. Presl.

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Clade: Commelinids
- Order: Commelinales Mirb. ex Bercht. & J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Floscopa* Lour.
- Species: *F. scandens* Lour.

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Coronariae  
Ordo: Commelinaceae Mirb.  
Genus: *Floscopa* Lour.  
Species: *F. scandens* Lour.

## 4. Distribution:

**Global:** Australia, Bangladesh, Bhutan, China (Fujian, Guangdong, Hainan, Hunan, Jiangxi, Sichuan, Tibet, Yunnan, Zhejiang); India, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, Nepal, Sri Lanka, Thailand, Vietnam

**India:** Andhra Pradesh, Assam, Andaman and Nicobar Island, Arunachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Mizoram, Manipur, Nagaland, Orissa, Sikkim, Tamil Nadu, West Bengal, Uttar Pradesh

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

## 6. Threat Status:

IUCN: Least Concern

BSI:

**7. Habit and Habitat:** Aquatic or semiaquatic herb. The species is a perennial or occasionally annual. It is mostly found in muddy soils along streams and in swamps, in shade, at the edge of forests. It also grows in open marshy places, ditches, drying pools and canal. It grows at an altitude from the plains to 1,800 m.

**8. Life Form:** Chamaephytes

**9. Economic Importance:** The juice of *F. scandens* is squeezed into the eyes in case of sore eyes and ophthalmia. It is also used in the treatment for broken bones.

**10. Probable Progenitor of:**

**11. DNA**

**C-value**

**Methodology**

**12. Basic chromosome number(s):**  $x=6^5$

**13. Zygotic chromosome number(s):**  $2n=12^{4,5}22^124^{6,7,10,11}30^254^9$

**14. Gametic chromosome number(s):**  $n=11^112^{10,12}15^{2,3}$

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

Image file

**16. Ploidy level:**

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:** Mostly Subtelocentric and metacentric<sup>5</sup>

**Chromosome size:**

**NOR chromosome(s):**

**Degree of asymmetry:** Asymmetric

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:**  $11\text{II}^1 12\text{II}^6$

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; Translocations etc):**