

# Species Data Sheet

DBT- Network Programme

Datasheet No. A-098.009.101  
(family.genus.species)

## 1. Taxon: *Fimbristylis* Vahl

Species: *Fimbristylis tenera* Schult. (Accepted Name)

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Fimbristylis glabra* Hochst. ex Steud., *Fimbristylis muricatula* Steud., *Fimbristylis oxylepis* Steud., *Fimbristylis tenera* var. *oxylepis* (Steud.) C. B. Clarke, *Iriatenera* (Schult.) Kuntze, *Scirpustenellus* Roxb., nom. illeg., *Trichelostylistenella* Nees.

## 3. Systematic position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Poales Small
- Family: Cyperaceae Juss.
- Genus: *Fimbristylis* Vahl
- Species: *F. tenera*

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Glumaceae  
Ordo: Cyperaceae Juss.  
Genus: *Fimbristylis* Vahl  
Species: *F. tenera*

## 4. Distribution:

**Global:** Tropical Africa and Pakistan

**India:** Kerala, Assam

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

## 6. Threat Status:

**IUCN:**

**BSI:**

7. **Habit and Habitat:** Herb

8. **Life Form:** Annual

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

**C-value**

**Methodology:**

**12. Basic chromosome number(s):**  $x=5$ <sup>13,20,23,28</sup>

**13. Zygotic chromosome number(s):**  $2n=40$ <sup>8,20,22,24,36</sup>

**14. Gametic chromosome number(s):**  $n=20$ <sup>8,10,11,12,13,20,23,24,25,27,28,34</sup>

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

Image file

**16. Ploidy level:** Octaploid<sup>13,20,23,27,28</sup>

Image file

**17. Agamete ploidy:**

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

**19. Genomic formula:**

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

**21. Somatic chromosomes:**

**Karyotype:** Mostly Submetacentric and metacentric<sup>27</sup>

**Chromosome size:** Small Size<sup>27</sup>

**NOR chromosome(s):**

**Degree of asymmetry:** Highly Symmetrical<sup>27</sup> (Pollen Mitosis)

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:**  $20\text{II}^{23,25}$

Image file

**27. Chromosome distribution at anaphase I:**

**28. Genetic diversity:**

**Chromosomal level:**

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**DNA level**

**29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc):** Pollen mitosis:  $n=20^{11,27}$