

# Species Data Sheet

DBT- Network Programme

Datasheet No. A-098.009.003  
(family.genus.species)

**1. Taxon:** *Fimbristylis* Vahl

Species: *Fimbristylis aestivalis* (Retz.) Vahl

Subspecies

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Iriaaestivalis* (Retz.) Kuntze, *Scirpusaestivalis* Retz.

**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. aestivalis*

**Bentham and Hooker (1862)**

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

**4. Distribution:**

**Global:** Asia and Australia

**India:** Mysore, Assam, Odisha and Kerala.

**5. Indigenous/Exotic/Endemic; Cultivated/Wild:** Indigenous / 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):**  $x=5^{2,7}$

**13. Zygotic chromosome number(s):**  $2n=10^{1,2,3,4,5,6,7,45,46}$

**14. Gametic chromosome number(s):**  $n=5^{1,2,7,46}$

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

Image file

**16. Ploidy level:** Diploid<sup>2,6,7</sup>

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 Metacentric and Submetacentric<sup>7</sup>

**Chromosome size:** Medium size<sup>7</sup>

**NOR chromosome(s):** 4NOR<sup>7</sup>

**Degree of asymmetry:** Asymmetrical

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:**  $5n^{2,7}$

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):**