

Species Data Sheet

DBT- Network Programme

Datasheet No. A-098.009.090
(family.genus.species)

1. Taxon: *Fimbristylis* Vahl

Species: *Fimbristylis schoenoides* (Retz.) Vahl (Accepted Name)

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Abildgaardianervosa* J.Presl & C.Presl, *Eleogitonmonostachya* (J.Koenig ex Roxb.) A.Dietr., *Fimbristylis bispicata* (J.Koenig ex Roxb.) Nees & Meyen, *Fimbristylis inconstans* Steud., *Fimbristylis kagiensis* Hayata, *Fimbristylis kunthiana* Ridl., *Fimbristylis longifolia* S.T.Blake, *Fimbristylis schoenoides* var. *ciliata* Ridl., *Iriabispicata* (J.Koenig ex Roxb.) Kuntze, *Iriaschoenodes* (Retz.) Kuntze, *Isolepis bispicata* (J.Koenig ex Roxb.) Schult., *Isolepis monostachya* (J.Koenig ex Roxb.) Spreng, *Isolepis rariflora* Schrad., *Scirpus bispicatus* J.Koenig ex Roxb., *Scirpus monostachyos* J.Koenig ex Roxb., *Scirpus schoenoides* 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. schoenoides*

Bentham and Hooker (1862)

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

4. Distribution:

Global: Tropical Asia and Australia.

India: Near Bannerghatta and Bhadravati (Mysore State).

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Herb

8. Life Form: Annual or Perennial

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): $2n=10^{2,3,5,6,7,47,57}$

14. Gametic chromosome number(s): $n=5^{1,2,24,25,47}$

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

Image file

16.Ploidy level:Diploid^{2,7}

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 metacentric⁷

Chromosome size:small size⁷

NOR chromosome(s):4NOR⁷

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:

Image file

27. Chromosome distribution at anaphase I: $5 \cdot 5^{25}$

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 mitosis: $(n=5)^2$