

Species Data Sheet

DBT- Network Programme

Datasheet No. A-098.009.104
(family.genus.species)

1. Taxon: *Fimbristylis* Vahl

Species: *Fimbristylis tetragona* R. Br. (Accepted Name)

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Fimbristylis abjiciens* Steud., *Fimbristylis arnottii* Thwaites, *Fimbristylis cylindrocarpa* Kunth, *Fimbristylis oxyrhachis* Miq., *Fimbristylis xyrioides* Arn. ex Thwaites, *Iriatetragona* (R.Br.) Kuntze, *Mischosporaefoliata* Boeckeler, *Scirpustetragonus* (R.Br.) Poir., nom. inval., *Trichelostylisxyrioides* Arn. ex Hook.f.

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. tetragona*

Bentham and Hooker (1862)

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

4. Distribution:

Global: Tropical Asia and Australia.

India: Kerala, Maharashtra, Meghalaya, Orissa, Rajasthan, Tamil Nadu, Uttar Pradesh, Madhya Pradesh, Andhra Pradesh and West Bengal.

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

6. Threat Status:

IUCN: Least Concern

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): $2n=10^{3,4,6,7}20^1$

14. Gametic chromosome number(s): $n=5^210^1$

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, aneusomaty, polysomaty):

21.Somatic chromosomes:

Karyotype:Mostly submetacentric and subtelocentric⁷

Chromosome size:Long size⁷

NOR chromosome(s):4NOR⁷

Degree of asymmetry:Symmetric

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:

28. Genetic diversity:

Chromosomal level:

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc):