Species Data Sheet

Datasheet No. A-098.009.014 **DBT- Network Programme**
(family.genus.species)

1.Taxon:*Fimbristylis* Vahl
Species**:***Fimbristylis bis-umbellata*(Forssk.) Bub. (*Accepted Name*)
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Fimbristylisbisumbellatavar.*elata Täckh., *Fimbristylisdichotomasubsp. Bisumbellata*(Forssk.) Luceño, *Fimbristylis dichotomavar.villosa* Vahl, *Fimbristylis liukiuensis* Tuyama, *Fimbristylis pallescens* (Roxb.) Nees, *Iriabisumbellata*(Forssk.) Kuntze, *Scirpusbisumbellatus* Forssk., *Scirpuspallescens* Roxb.

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. bis-umbellata*

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Monocotyledones
Series: Glumaceae
Ordo: Cyperaceae Juss.
Genus: *Fimbristylis* Vahl
Species: *F.bis-umbellata*

4.Distribution:

Global: West Africa and the Mediterranean to Australia

India: Delhi, along banks of river Yamuna.

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[13]8[15]

13. Zygotic chromosome number(s):2n=10[3,4,43]16[15]

14. Gametic chromosome number(s):n=5[9,10,11,14]10[12,20]

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

Image file

16.Ploidy level: Diploid[13,15], Tetraploid[20]

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 Sub-telocentric and metacentric[15]

Chromosome size: Small size[15]

NOR chromosome(s):

Degree of asymmetry: Asymmetrical[15]

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:5II[13]

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;Translocationsetc): Pollen mitosis: n=5[11]