Species Data Sheet

Datasheet No. A-098.009.042 **DBT- Network Programme**
(family.genus.species)

1.Taxon:*Fimbristylis* Vahl
Species:*Fimbristylis ferruginea*(L.) Vahl (*Accepted Name*)
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Fimbristylis spadicea var. ferruginea* (L.) Alph.Wood, *Iriaferruginea*(L.) Kuntze, *Isolepisferruginea* (L.) Schltdl.,*Scirpusferrugineus* L.

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. ferruginea*

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

4.Distribution:

Global: India, Nepal, Pakistan, Indo-China and Malesia

India: Near Bannerghatta and Bhadravati (Mysore State).

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

6.Threat Status:

IUCN: Least Concern

BSI:

7.Habit and Habitat: Herb

8.Life Form: Perennial

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value **Methodology:**

12.Basic chromosome number(s):x=5[7,13,20,28]8[15]

13. Zygotic chromosome number(s):2n=10[3,4,6,7,29,31]20[35,54]32[15]

14. Gametic chromosome number(s):n=5[6,7,20,23,24,25,27,28,33]10[9,11,13]

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

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16.Ploidy level: Diploid[6,7,20,23,28], Tetraploid[13,15]

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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 Subtelocentric and metacentric[15], Mostly metacentric[7]

Chromosome size: Small size[7,15]

NOR chromosome(s):2NOR[7]

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:5II[6,7,20,23,25,28]10II[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[27]10[11]