Species Data Sheet

Datasheet No. A-098.009.038 **DBT- Network Programme**
(family.genus.species)

1.Taxon:*Fimbristylis* Vahl
Species:*Fimbristylis falcata*(Vahl) Kunth
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Iriafalcata* (Vahl) Kuntze, *Isolepis falcata* (Vahl) Roem. & Schult.,*Scirpusfalcatus* Vahl., *F. junciformis*

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. falcata*

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

4.Distribution:

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

India: Kerala, Assam.

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Herb

8.Life Form: Perennial

9.Economic Importance:

10. Probable Progenitor of:*Fimbristylis falcata*[32]

11.DNA

C-value **Methodology:**

12.Basic chromosome number(s):x=5[13,28]11[23,32]12[58]

13. Zygotic chromosome number(s):2n=22[7,24,25,29,30,32,58]44[32,34]

14. Gametic chromosome number(s):n=11[10,11,13,23,24,25,27,28,32,33]22[32]

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

Image file

16.Ploidy level: Diploid[23,58]Tetraploid[13,28,32]

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo): Autotetraploidy[32]

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty): Aneuploidy[13]

21.Somatic chromosomes:

Karyotype: Mostly metacentric and submetacentric[32],Mostly submetacentric and metacentric[27]

Chromosome size: Medium size[32],Medium size[27]

NOR chromosome(s):4 NOR[32],8NOR[27]

Degree of asymmetry: Symmetrical, Slightly Asymmetrical[27]**(Pollen mitosis)**

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:11II[23,25,28]; (8.48IV, 0.06II, 4.80II, 0.16I)[32]

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=11[11,27]22[32]