Species Data Sheet

Datasheet No. A-098.009.095 **DBT- Network Programme**
(family.genus.species)

1.Taxon:*Fimbristylis* Vahl
Species:*Fimbristylis squarrosa*Vahl. (*Accepted name*)
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Fimbristylis aestivalis var. squarrosa* (Vahl) T.Koyama, *Iriasquarrosa* (Vahl) Kuntze, *Pogonostylissquarrosus* (Vahl) Bertol., *Scirpussquarrosus* (Vahl) Poir., nom. illeg.

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. squarrosa*

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

4.Distribution:

Global: South East Asia and Australia.

India: Andhra Pradesh, Assam, Gujarat, Meghayala, Manipur, Punjab, Uttar Pradesh.

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Herb

8.Life Form: Annual

9.Economic Importance:A decoction of the plant is used to treat a sore throat.

10. Probable Progenitor of:

11.DNA

C-value **Methodology:**

12.Basic chromosome number(s):x=5[22]

13. Zygotic chromosome number(s):2n=10[1]20[21,22,45]24[6,7]40[7,16,20,21,22,24]

14. Gametic chromosome number(s):n=5[1]10[21,22,45,56]15[47]

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

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16.Ploidy level: Tetraploid[22]

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 metacentric and subtelocentric[7]

Chromosome size: Small size[7]

NOR chromosome(s):4NOR[7]

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: $10II^{22}$

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):