Species Data Sheet

Datasheet No. A-098.009.064 **DBT- Network Programme**
(family.genus.species)

1.Taxon:*Fimbristylis* Vahl
Species:*Fimbristylis miliacea* (L.) Vahl;
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Fimbristylis quinquangularis*

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. miliacea*

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

4.Distribution:

Global: Bangladesh, Bhutan, Cambodia, India, Indonesia, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, Thailand and Vietnam

India: Uttar Pradesh, Assam, Kerala and Chennai.

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: In India, it is one of the most harmful weeds in rice fields.

10. Probable Progenitor of:

11.DNA

C-value **Methodology:**

12.Basic chromosome number(s):x=5[2,7,13,22,23,28]

13. Zygotic chromosome number(s):2n=10[6,7,45,48,55]

14. Gametic chromosome number(s):n=5[2,6,13,22,23,27,28,42,46,47]

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

Image file

16.Ploidy level: Diploid[2,6,13,22,23,27,28]

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[7],Mostly Submetacentric and Telocentric[27]

Chromosome size: Small size[7],Medium Size[27]

NOR chromosome(s):4NOR[7], 6NOR[27]

Degree of asymmetry: Symmetrical, Slightly Symmetrical[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:5II[6,7,22,23]

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[11,27,28]