

Species Data Sheet

Datasheet No. A-098.009.073
(family.genus.species)

DBT- Networ

1. Taxon: *Fimbristylis* Vahl.

Species: *Fimbristylis ovata* (Burm.f.) Kern (*Accepted Name*)

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Abildgaardiacompressa* J.Presl & C.Presl, *Abildgaardiaindica* (Rich.) Nees, *Abildgaardiajavanensis* Gand., *Abildgaardiamonostachya* (L.) Vahl, *Abildgaardiaovata* (Burm.f.) Kral, *Abildgaardiarottboelliana* Nees, *Carex ovata* Burm.f., *Cyperus caribaeus* Pers., nom. illeg., *Cyperus indicus* Rich., *Cyperus monostachyos* L., *Fimbristylis compressa* Fern.-Vill., *Fimbristylis monostachya* (L.) Hassk., *Iriacaribea* Steud., *Iriaindica* (Rich.) Schult., *Iriamonostachya* (L.) Kuntze, *Scirpusmonostachyus* (L.) Kuntze, *Scirpusschoenoides* Roxb., nom. illeg., *Xyrisbrasiliensis* Spreng.

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. ovata*

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Glumaceae
Ordo: Cyperaceae Juss.
Genus: *Fimbristylis* Vahl
Species: *F. ovata*

4. Distribution:

Global: Angola, China (Yunnan), Colombia Argentina, Bahamas, Bangladesh, Belize; Benin; Bhutan; Bolivia; Brazil and Cambodia.

India: Andaman and Nicobar, Andhra Pradesh, Assam, Gujarat, Goa, Karnataka, Kerala, Maharashtra, Madhya Pradesh, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh and West Bengal

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

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): $x=5^{2,13,28,36}$

13. Zygotic chromosome number(s): $2n=10^{3,36,47} 20^{3,5,7,36,47,48}$

14. Gametic chromosome number(s): $n=5^{1,2,10,11,13,28,33,36} 10^{29} 10^{36,47}$

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

Image file

16. Ploidy level: Diploid^{2,13,28,36}, Tetraploid³⁶

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo): Allotetraploid³⁶

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes

Karyotype: Mostly submetacentric³⁶, Mostly subtelo centric and metacentric³⁶

Chromosome size: Medium size³⁶, Medium size³⁶

NOR chromosome(s): 2NOR³⁶, 2NOR³⁶

Degree of asymmetry: Asymmetric

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: $5\text{II}^{13,28,36}$; 10II^{36}

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; Translocation etc): Pollen mitosis: $n=5^{11,36}10+2$ Fragments³⁶