

Genus Data Sheet

Datasheet No. A-098.009

(family,genus,species)

DBT- Network Programme

1. Genus:*Fimbristylis* Vahl

3. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Poales Small
- Family: Cyperaceae Juss.
- Genus: *Fimbristylis* Vahl

Bentham and Hooker (1862)

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

3. Species:

Global:300

India: 95

4. Taxonomic riddles:

5. Distribution:

Global:Peninsular India, Malaysia, Sri Lanka,Angola, Central African Republic, China (Yunnan), Colombia, Argentina, Indonesia, Nigeria, Bahamas, Bangladesh, Ghana, Belize, Australia,Pantropical, extending North to China and temperate Japan, Benin, Afghanistan, Pakistan, Europe, Bhutan, Bolivia, Thailand, South Africa, Viet Nam,Brazil and Cambodia.

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

6. Habit and Habitat:Herb

7.Economic Importance:

8. DNA content range:

Methodology

2C: 4C:

9. Basic chromosome number(s): $x=3^{38}5^{2,7,13,20,22,23,28,36,57}8^{15}11^{23,32,39}12^{58}$

10.

Zygotic

chromosome

number(s): $2n=6^{8,20,37,38,40,41,44}10^{1,2,3,4,5,6,7,8,16,19,20,22,23,24,29,30,31,36,37,43,45,46,47,48,51,52,55,57}12^{50}16^{15,48}20^{1,2,3,4,5,6,7,8,13,16,17,18,20,21,22,24,25,26,29,30,35,36,45,47,48,58}24^{6,7,45,48}26^{30}28^{4}30^{7,22,23,24,45,47,48,52}32^{15}40^{7,8,16,20,21,22,24,36,49}42^{48}44^{3,32,34,39,45,48}48^{3,4,10,47,49}52^{48}96^{21,22}$ _{ca} $124^{8,20}$

11. Gametic chromosome

number(s): $n=3^{8,20,38,40,41,44}5^{1,2,4,6,7,8,9,10,11,12,13,14,16,17,18,19,20,22,23,24,25,27,28,33,36,37,42,46,47}8^{29}10^{1,2,6,7,8,9,10,11,12,13,14,16,17,18,20,21,22,23,24,25,27,28,29,36,45,47,56}11^{10}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes Neocentric chromosomes):

13. Ploidy level:Diploid^{2,6,7,13,15,18,19,20,22,23,25,27,28,36,58}Tetraploid^{2,7,13,15,18,20,22,23,25,28,32,36,39,57}Hexaploid²⁵Octaploid^{13,20,23,27,28}

14. Nature of polyploidy (auto, segmental, allo, autoallo):Intraspecific polyploidy¹³Euploidy^{15,46}Autotetraploidy³²Allotetraploid³⁶

15. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):Aneuploidy^{13,23,41}

16. Karyograms:

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes:GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:

20. Cytogenetic mechanism (s) underlying evolution: Euploidy^{2,15,20,23}; Gene mutation^{2,23}; Polyploidy^{2,7,22}; Aneuploidy^{15,22}; Structural chr
Diffuse centromeric chromosome⁴⁸

21. Linkage map:

22. Any other information: