

Species Datasheet

Datasheet No. A-098.001.007
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyperus bulbosus* Vahl

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Cyperus bulbiferus* A. Dietr., *C. bulbosus* f. *depauperatus* Maire, *C. bulbosus* var. *elator* Kük., *C. bulbosus* var. *melanolepis* Kük., *C. geminatus* J. Koenig ex Ainslie, *C. jeminicus* Retz., *C. laxus* R.Br., *C. oleraceus* Roxb. ex Nees, *C. polyphyllus* Vahl, *C. rotundus* var. *pendulus* Nees, *Cypsstolonifer* Willd. ex Kunth, *C. subulatus* var. *confertus* Benth., *C. yemenicus* Spreng.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Poales Small
- Family: Cyperaceae Juss.
- Genus: *Cyperus* L.
- Species: *C. bulbosus* Vahl

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Glumaceae
Ordo: Cyperaceae Juss.
Genus: *Cyperus* L.
Species: *C. bulbosus* Vahl

4. Distribution:

Global: South Asia, Malaysia, tropical Africa and tropical Australia and India

India: Throughout plains of India.

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herb. Grows on dry sandy soil.

8. Life Form: Bulbous geophyte

9. Economic Importance: The bulb are edible.

10. Probable Progenitor of:

11. DNA

C-value Methodology:

12. Basic chromosome number(s): $x=8^1$

13. Zygotic chromosome number(s):

14. Gametic chromosome number(s): $n=40^{14,15} 42^{16} 46^3 50^1 59^{2,3}$

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

Image file

16. Ploidy level: Dodecaploid¹

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo): Intraspecific Polyploidy¹

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy): Aneuploidy¹

21. Somatic chromosomes:

Karyotype:

Chromosome size:

NOR chromosome(s):

Degree of asymmetry:

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:

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):