

Species Datasheet

Datasheet No. A-098.001.013
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyperus difformis* L.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Cyperus difformis* f. *humilis* Debeaux, *C. difformis* f. *maximus* C.B. Clarke, *C. difformis* var. *Breviglobosus* Kük., *C. difformis* var. *subdecompositus* Kük., *C. goeringii* Steud., *C. holoschoenoides* Jan ex Schult., *C. lateriflorus* Torr., *C. oryzetorum* Steud., *C. protractus* Link, *C. subrotundus* Llanos, *C. viridis* Willd. ex Kunth

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. difformis* L.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Australia and most of Africa and Asia, Southern Europe

India: Throughout India.

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

6. Threat Status:

IUCN: Least Concern

BSI

7. **Habit and Habitat:** Herb. Grows in flooded or in very wet soils. It is frequently found in small pools, along rivers, canals, streams, open wet places and in grassy swamps or seasonally wet grasslands.

8. **Life Form:** Therophytes

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

C-value Methodology:

12. Basic chromosome number(s): $x=8^{19}10$

13. Zygotic chromosome number(s): $2n=34^{9,11,31}36^{10,13}$

14. Gametic chromosome number(s): $n=9^{16}13^414^{32}16^{1,21,22}17^{16}18^{2,5,6,7,8,21}$

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

Image file

16. Ploidy level: Diploid³¹; Tetraploid¹

Image file

17. Agametoploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:

Karyotype: Mostly Metacentric followed by Submetacentric^{10,31}

Chromosome size: Small Size¹⁰

NOR chromosome(s): 2 NOR¹⁰

Degree of asymmetry: Symmetrical¹⁰

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):