

Species Datasheet

Datasheet No. A-098.001.009
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyperus compressus* L

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Cyperus brachiatus* Poir., *C. caffer* G. Bertol., *C. compressus* f. *depauperatus* Domin, *C. compressus* subsp. *micranthus* T. Koyama, *C. compressus* var. *brachiatus* (Poir.) Nees, *C. compressus* var. *capillaceus* C. B. Clarke, *C. compressus* var. *compositus* J. Presl & C. Presl, *C. compressus* var. *floribundus* E. G. Camus, *C. compressus* var. *laxus* E. G. Camus, *C. compressus* var. *pectiniformis* (Schult.) C. B. Clarke, *C. compressus* var. *simplex* J. Presl & C. Presl, *C. meyenii* Nees & Arn., *C. pectinatus* Roxb., *C. pectiniformis* Schult.

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. compressus* L.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Widely distributed in tropical, sub tropical and temperate regions of the whole world.

India: Throughout India.

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herb. Common as weed in rice fields, sunflower fields, waste lands, open grasslands, muddy banks of canals, edges of rice fields, along roadsides, damp sandy soils, gravelly soils, dry areas as well as marshy places, sea shores, low lands and hilly areas.

8. Life Form: Therophytes

9. Economic Importance: Leaves are used as an antibiotic

10. Probable Progenitor of:

11.DNA

C-value Methodology:

12. Basic chromosome number(s): $x=8^{1,6,18,9,18}$

13. Zygotic chromosome number(s):

14. Gametic chromosome number(s): $n=48^{5,6}$ $c49^{7,8,25}$ $56^{1,2,3,20}$ $57^{7,18,25}$ $64^{2,3,9,11,18,19}$

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

Image file

16. Ploidy level: Tetradecaploid (14x)^{1,18}; Hexadecaploid¹⁸

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): Aneuploidy^{1,18}

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: $64\text{II}^{11,31}$

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):