

# Species Datasheet

Datasheet No. A-098.001.011  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Cyperus corymbosus* Rottb.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Cyperus bengalensis* Spreng., *C. corymbosus* var. *brevispiculosus* Kuntze, *C. corymbosus* var. *damarensis* Kük., *C. corymbosus* var. *longispiculatus* (Kuntze) Kük., *C. corymbosus* var. *macrostachyus* Boeckeler, *C. corymbosus* var. *pangorei* C.B. Clarke, *C. diphyllus* Retz., *C. diphyllus* var. *elatior* Benth., *C. diphyllus* var. *triangularis* Boeckeler, *C. enodis* Boeckeler, *C. enodis* var. *longispiculatus* Kuntze, *C. gula-metthi* Schult., *C. koenigii* Vahl, *C. longus* var. *pallescens* (Desf.) Coss. & Durand, *C. nudus* Roxb., *C. pallescens* Desf., *C. roestelii* Kunth, *C. seminudus* Roxb., *C. tegetiformis* Roxb. ex Arn., *C. tenuicomus* Miq.

## 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. corymbosus* Rottb.

### Bentham and Hooker (1862)

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

## 4. Distribution:

**Global:** Sri Lanka, Nepal, Myanmar, Vietnam, Madagascar, tropical West Africa and tropical South America.

**India:** Throughout India

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

## 6. Threat Status:

IUCN: Least Concern

BSI

7. **Habit and Habitat:** Herb. On the muddy banks of rivers, lake and canals; shallow water near rivers and lakes, rocky river beds.

## 8. Life Form:

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

**C-value Methodology:**

**12. Basic chromosome number(s):**  $x=9^{6,10}$

**13. Zygotic chromosome number(s):**  $2n=108^{10,13}$

**14. Gametic chromosome number(s):**  $n=53^{30} 54^{5,6} 64^{9,11,19}$

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

Image file

**16. Ploidy level:**

Image file

**17. Agamete ploidy:**

**18. Nature of polyploidy (auto, segmental, allo, autoallo):** Autopolyploidy<sup>10</sup>

**19. Genomic formula:**

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

**21. Somatic chromosomes:**

**Karyotype:** Mostly Metacentric and Sub-Metacentric<sup>10</sup>

**Chromosome size:** Small Size<sup>10</sup>

**NOR chromosome(s):**

**Degree of asymmetry:** Symmetrical<sup>10</sup>

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:**64II<sup>11,31</sup>

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;Translocationsetc):**