

Species Datasheet

Datasheet No. A-098.001.051
(family.genus.species)

DBT- Networ

1. Taxon:

Species: *Cyperus procerus* Rottb.
Subspecies:
Variety:
Cultivar:
Hybrid:
Image file

2. **Synonyms:** *Cyperus carnosus* B. Heyne ex Wall., *C. griffithianus* Boeckeler, *C. heynei* Boeckeler, *C. procerus* var. *griffithianus* (Boeckeler) Kük., *C. procerus* var. *lasiorrhachis* C. B. Clarke, *C. procerus* var. *stenanthus* Kük., *C. procerus* var. *straminicolor* (Cherm.) Kük., *C. procerus* var. *trachycladus* (Cherm.) Kük., *C. procerus* var. *vanderystii* Kük., *C. straminicolor* Cherm., *C. straminicolor* var. *betsileensis* Cherm., *C. trachycladus* Cherm., *Duval-jouveaprocera* (Rottb.) H. Pfeiff., *Mariscus thwaitesii* Livera

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. procerus* Rottb.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Australia, Bangladesh, Burkina Faso, Cameroon, China, Ethiopia, Gabon, Guyana; India, Indonesia, Madagascar, Malaysia, Nepal, Papua New Guinea, Senegal, Sri Lanka, Tanzania, Thailand, Vietnam

India: Assam, Karnataka, Kerala, Madhya Pradesh, Tamil Nadu, West Bengal

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. **Habit and Habitat:** Herb. Found in marshy grassland, rice farms and near open water.

8. Life Form:

9. **Economic Importance:** The stems are sometimes collected then split and used as string or twine

10. Probable Progenitor of:

11. DNA

C-value Methodology:

12. **Basic chromosome number(s):** $x=8^{10}9^{17}$

13. **Zygotic chromosome number(s):** $2n=18^{17}64^{10,26}$

14. **Gametic chromosome number(s):** $n=52^{5,6}$

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

Image file

16. **Ploidy level:**

Image file

17. **Agametoploidy:**

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

19. **Genomic formula:**

20. **Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):** Aneuploidy^{6,17}

21. **Somatic chromosomes:**

Karyotype: Mostly Metacentric and Sub-metacentric¹⁰

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):