

Species Datasheet

Datasheet No. A-098.001.031
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyperus longus* L.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Chlorocyperus longus* (L.) Palla, *C. longus* f. *pallidior* (Kük.) Soó, *Cyperus amoenus* Kunth, *C. badius* var. *brachystachys* (C.Presl) Nyman, *C. badius* var. *neglectus* (Parl.) Nyman, *C. brachystachys* C.Presl, *C. congestus* subsp. *heldreichianus* (Boiss.) K.Richt., *C. fastigiatus* Willd. ex Kunth, *C. fenzelianus* Steud., *C. enzelianus* var. *badiiformis* Chiov., *C. guthnickii* Tineo ex Lojac., *C. heldreichianus* Boiss., *C. intermedius* Guss., *C. italicus* Tod., *C. kunthii* Parl., *C. lateriflorus* Steud., *C. longus* var. *auratus* Boeckeler, *C. longus* f. *badiiformis* (Chiov.) Kük., *C. longus* f. *cypricus* C.B. Clarke, *C. longus* f. *difformis* (Lojac.) Kük., *C. longus* var. *discolor* Kük., *C. longus* var. *elongatus* C.B. Clarke, *C. longus* var. *elongatus* Boeckeler, *C. longus* var. *guthnickii* (Tineo ex Lojac.) Kük., *C. longus* var. *heldreichianus* (Boiss.) Boiss., *C. longus* f. *intermedius* (Guss.) Kük., *C. longus* var. *leptochlaenus* Kük., *C. longus* f. *longispiculatus* Reynolds, *C. longus* subsp. *Longus*, *C. longus* f. *lucanus* A. Terracc., *C. longus* f. *myriostachyus* (Ten.) Kük., *C. longus* var. *pallidior* Kük., *C. longus* var. *pallidus* Boeckeler, *C. longus* f. *parlatoris* (Lojac.) Kük., *C. longus* var. *speciosus* Kük., *C. longus* var. *stenostachyus* (Benth.) Kük., *C. longus* subsp. *tenuiflorus* (Rottb.) Kük., *C. longus* var. *tenuiflorus* (Rottb.) Boeckeler, *C. myriostachyus* Ten., *C. neglectus* Parl., *C. oxystachys* Nees ex Boeckeler, *C. parlatoris* Lojac., *C. parlatoris* var. *difformis* Lojac., *C. pertemis* Bojer, *C. preslii* subsp. *intermedius* (Guss.) Nyman, *C. rotundus* var. *fenzelianus* (Steud.) El-Hadidy, *C. stenostachyus* Benth., *C. tenuiflorus* Rottb., *C. hermalis* Dumort., *C. torosus* Vahl, *C. longus* (L.) Rikli, *C. longus* (L.) Hayek

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. longus* L.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Africa, Europe to Indian Subcontinent

India: North West India.

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

6. Threat Status:

IUCN: Near threatened

BSI

7.Habit and Habitat:Herb. It is a perennial herb, grows in seasonally flooded areas, wet grassland river, and pond margins, found in marshy pond margins.

8.Life Form:Rhizomatous geophytes

9.Economic Importance:The root is edible, medicinal, also used as ornamental.

10. Probable Progenitor of:

11.DNA

C-valueMethodology:

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):

14. Gametic chromosome number(s): $n=7^{32}ca60^{30}$

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):

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):