

Species Datasheet

Datasheet No. A-098.001.047
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyperus pilosus* Vahl

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Cyperus donianus* A.Dietr., *C. fimbriatus* Nees, *C. hebes* Steud., *C. heyneanus* Boeckeler, *C. honestus* Kunth, *C. marginellus* Nees, *C. obliquus* Nees, *C. paniculatus* D.Don, *C. pauciflorus* Steud., *C. pilosus* f. *badius* Kuntze, *C. pilosus* f. *pallidus* Kuntze, *C. pilosus* var. *contractus* (Miq.) Kük., *C. pilosus* var. *fimbriatus* (Nees) Kük., *C. pilosus* var. *laevirhachis* Kük., *C. pilosus* var. *muticus* Boeckeler, *C. pilosus* var. *obliquus* (Nees) C.B. Clarke, *C. pilosus* var. *pauciflorus* L.K. Dai, *C. pilosus* var. *polyanthus* C.B. Clarke, *C. pilosus* var. *pseudobabakensis* Kük., *C. pilosus* var. *purpurascens* L.K. Dai, *C. piptolepis* Steud., *C. piptolepis* var. *contractus* Miq., *C. piptolepis* var. *pyrophytus* Miq., *C. pyrophilus* Reinw. ex de Vriese, *C. quinqueflorus* Hochst. ex Steud., *C. subalatus* Steud.

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. pilosus* Vahl

Bentham and Hooker (1862)

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

4. Distribution:

Global: Bhutan, Bangladesh, Myanmar, Sri Lanka, India and Nepal.

India: Andaman Island, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu-Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Herb. Growing in seasonally flooded places, wet grasslands, rice fields and drains.

8. Life Form: Therophytes

9. Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology:

12.**Basic chromosome number(s):** $x=9^{10,28}$

13. **Zygotic chromosome number(s):** $2n=16^{44}36^{10}38^{10}$

14. **Gametic chromosome number(s):** $n=18^{4,27,28}$

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:Mostly Metacentric and Sub-metacentric¹⁰

Chromosome size:Small 2 NOR¹⁰Size¹⁰

NOR chromosome(s):

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: 18×2^8

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):