

# Species Datasheet

Datasheet No. A-028.010.001  
(family.genus.species)

DBT- Network Programme

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## 1. Taxon:

Species *Cryptocoryne ciliata* (Roxb.) Fisch. ex Wydler

Subspecies

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Ambrosina ciliaris* Spreng., *A. ciliata* Roxb., *Arum ciliatum* (Roxb.) Loudon, *Cryptocoryne alata* Griff., *C. ciliata* var. *latifolia* Rataj, *C. drymorrhisa* Zipp. ex Schott, *C. elata* Griff.

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Cryptocoryne* Fisch. ex Wydler
- Species: *C. ciliata* (Roxb.) Fisch. ex Wydler

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Nudiflorae  
Ordo: Aroideae Arn.  
Genus: *Cryptocoryne* Fisch. ex Wydler  
Species: *C. ciliata* (Roxb.) Fisch. ex Wydler

## 4. Distribution:

**Global:** India to New Guinea

**India:** Nicobar Island

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

## 6. Threat Status:

**IUCN:** Least Concern

**BSI:**

**7. Habit and Habitat:** Herb, tropical Moist Forest

**8. Life Form:** Tuberous geophytes

**9. Economic Importance:-**

**10. Probable Progenitor of:**

**11. DNA**

**C- value**

**Methodology**

4C (10.35 pg) <sup>1</sup>

Feulgen cytophotometry <sup>1</sup>

**12. Basic chromosome number(s):**  $x=11$  <sup>2,3</sup>

**13. Zygotic chromosome number(s):**  $2n=22$  <sup>1,2,3,4,5,6,7,8,9,10</sup>

$2n=28$  <sup>11</sup>

$2n=33$  <sup>3,6,9</sup>

**14. Gametic chromosome number(s):**

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

Image file

**16. Ploidy level:** Diploid <sup>3,9</sup>

Triploid <sup>3,9</sup>

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:** Majority nearly metacentric to metacentric chromosomes <sup>1</sup>, Majority nearly metacentric chromosomes <sup>4</sup>

**Chromosome size:** Very small to small <sup>4,11</sup>

**NOR chromosome(s):** 2 NOR <sup>1</sup>, 4 NOR <sup>4</sup>

**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; Translocations etc):**