

Species Datasheet

Datasheet No. A-028.010.004
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species *Cryptocoryne retrospiralis* (Roxb.) Kunth

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Ambrosina retrospiralis* Roxb., *A. roxburghiana* Voigt, *A. unilocularis* Roxb., *C. dalzellii* Schott, *Cryptocoryne roxburghiana* (Voigt) Schott, *C. unilocularis* (Roxb.) Schott, *Lagenandra dalzellii* (Schott) Rataj

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. retrospiralis* (Roxb.) Kunth

Bentham and Hooker (1862)

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

4. Distribution:

Global: South West & South India to Myanmar

India: Tropical India

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

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=36$ ⁹
 $2n=56$ ¹⁵
 $2n=70$ ¹³
 $2n=72$ ⁶
 $2n=90$ ¹⁶

14. Gametic chromosome number(s):

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: Majority submetacentric chromosomes¹⁵

Chromosome size: Very small to small¹⁵

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; Translocations etc):