Genus Datasheet

DatasheetNo. A-028.010 (Family.Genus)

DBT- Network Programme

1. Genus: *Cryptocoryne* Fisch. ex Wydler

2. 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

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Cryptocoryne* Fisch. ex Wydler

3. Species:

Global: 71

India: 7

4. Taxonomic riddles:

5. Distribution:

Global: Tropical Asia, Malay Archipelago

India: Nicobar Island, Peninsular & East India

6. Habit and Habitat: Rhizome creeping, stoloniferous. Tropical humid forest, freshwater tidal zone, rarely in brackish water, submerged or emergent aquatics.

7. Economic Importance:

8. DNA content range:

4C (10.35 pg) [1]

Methodology:

Feulgen cytophotometry [1]

9. Basic chromosome number(s): x=7 [2]

x=9 [2]

x=10 [9]

x=11 [2,3,9]

x=14 [9,17]

x=15 [9]

x=17 [2,9]

x=18 [9]

10. Zygotic chromosome number(s): 2n=20 [3,9]

2n=22 [1,2,3,4,5,6,7,8,9,10]

2n=28 [11,12,13,14]

2n=30 [3]

2n=33 [3,6,9]

2n=34 [3,9]

2n=36 [3,9,18]

2n=42 [9]

2n=54 [9]

2n=56 [15]

2n=66 [6,9]

2n=68 [3,9]

2n=70 [13]

2n=72 [6,12]

2n=85 [9]

2n=88 [6,9]

2n=90 [4,5,7,8,10,16]

2n=102 [9]

2n=112 [17]

2n=132 [9]

11. Gametic chromosome number(s): n=45 [4,5]

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/ N chromosomes):

13. Ploidy level: Diploid [3,9]

Triploid [3,9]

Tetraploid [9]

Octaploid [17]

16. Karyograms: [4,15] **Meiosis:** [4]

17. Banding pattern(s):

18. Physical mapping of chromosomes: **GISH:**

19. Phylogenetic relationship at Chromosomal; DNA level: Chromosomal level [19]

DNA level

20. Cytogenetic mechanism(s) underlying evolution: Polyploidy, especially allopolyploidy ha
origin of species [4]

21. Linkage map:

22. Any other information: