

Species Datasheet

Datasheet No. A-028.009.006
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Colocasia fallax* Schott

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Colocasia heterochroma* H.Li & Z.X.Wei, *C. kerrii* Gagnep., *C. tibetensis* J.T.Yin, *C. yunnanensis* C.L.Long & X.Z.Cai

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Colocasia* Schott
- Species: *C. fallax* Schott

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Colocasia* Schott
Species: *C. fallax* Schott

4. Distribution:

Global: Nepal to China (Yunnan)

India: North East India

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. **Habit and Habitat:** Herb, dense forests, humid forest margins, and moist mossy rock faces in forests, valley scrub, moist shaded places along streams

8. **Life Form:** Tuberous geophytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value

2C (4.17-8.19pg) ⁴

Methodology

Flow cytometry ⁴

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=28$ ^{3,4,51}

$2n=30$ ⁵¹

$2n=42$ ^{4,52}

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Diploid ^{3,4}

Triploid ⁴

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 metacentric chromosomes ^{3,4,51}

Chromosome size: Very small to small ⁵¹, Small to medium ⁵¹

NOR chromosome(s)

Degree of asymmetry: Symmetrical ⁵¹, Stebbin's 1A,1B,2B class ⁴

Image file

22. Banding pattern(s): CMA⁺ bands ⁵¹

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):