

Species Datasheet

Datasheet No. A-028.012.006
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Homalomena rubescens* (Roxb.) Kunth

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Calla rubescens* Roxb., *Chamaecladon rubescens* (Roxb.) Schott, *Zantedeschia rubens* K.Koch

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Homalomena* Schott
- Species: *H. rubescens* (Roxb.) Kunth

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Homalomena* Schott
Species: *H. rubescens* (Roxb.) Kunth

4. Distribution:

Global: Indian Subcontinent Bangladesh, East Himalaya, and Indo-China Myanmar.

India:

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

6. Threat Status:

IUCN:

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

4C (36.55pg) ³

Methodology

Feulgen microdensitometry ³

12. Basic chromosome number(s): $x=6$ ⁴

13. Zygotic chromosome number(s): $2n=34$ ^{3,4}

$2n=40$ ⁵

$2n=48$ ⁶

14. Gametic chromosome number(s): $n=17$ ⁴

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

Image file

16. Ploidy level: Diploid³

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, Majority metacentric to submetacentric chromosomes ⁴, Majority nearly submetacentric chromosomes ⁶

Chromosome size: Very small to small ^{3,4,6}

NOR chromosome(s): 4 NOR ^{3,6}, 6 NOR ⁴

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 17II⁴

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):