

Species Datasheet

Datasheet No. A-028.024.001
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Zantedeschia aethiopica* (L.) Spreng.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Arodes aethiopicum* (L.) Kuntze, *Calla aethiopica* L., *C. ambigua* Salisb., *C. moschata* Moench, *Colocasia aethiopica* (L.) Link, *Otosma aethiopica* (L.) Raf., *Pseudohomalomena pastoensis* A.D.Hawkes, *Richardia aethiopica* (L.) Spreng., *Richardia africana* Kunth

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Zantedeschia* Spreng.
- Species: *Z. aethiopica* (L.) Spreng.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Zantedeschia* Spreng.
Species: *Z. aethiopica* (L.) Spreng.

4. Distribution:

Global: South Africa

India: Naturalised in Tamil Nadu

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Herb, plants of this species grow in marshy depressions

8. Life Form: Helophytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value

1C (2.3pg) ¹

2C (4.6pg) ¹

2C (3.72pg) ²

4C (9.2pg) ¹

Methodology

Flow cytometry ^{1,2}

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=16$ ^{3,4}

$2n=24$ ⁶

$2n=26$ ¹⁸

$2n=32$ ^{2,3,7,8,9,10,11,12,17}

14. Gametic chromosome number(s): $n=12$ ⁵

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

Image file

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

Diploid ^{2,3}

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 to submetacentric chromosomes ^{2,7}, Majority telocentric chromosomes ^{2,11}

Chromosome size: Very small to small ⁷

NOR chromosome(s): 10 NOR ⁷

Degree of asymmetry: Stebbins 3A class ¹¹

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 12II⁵

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level ¹³

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):