

Genus Datasheet

Datasheet No. A-074.003
(Family.Genus)

DBT- Network Programme

1. Genus: *Dracaena* L.

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales
- Family: Asparagaceae Juss.
- Genus: *Dracaena* L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledons
Series: Coronarieae
Ordo: Liliaceae Juss.
Tribus: Dracaeneae Dumort.
Genus: *Dracaena* L.

3. Species:

Global: ~119

India: 9

4. Taxonomic riddles:²

5. Distribution:

Global: Africa, Asia, Australia, America.

India: North East India, Peninsular India, East Himalaya, Andaman and Nicobar Islands.

6. Habit and Habitat: Trees or shrubs, height less than 10cm to over 40 m tall; Mostly found in Tropical areas of old world.

7. Economic Importance: Ornamental plants

8. DNA content range:

Methodology:

9. Basic chromosome number(s): $x=7^6$

$$x=10^6$$

$$x=18^2$$

$$x=19^2$$

$$x=20^2$$

$$x=21^2$$

10. Zygotic chromosome number(s): $2n=16^6$

$$2n=20^6$$

$$2n=28^6$$

$$2n=30^6$$

$$2n=32^6$$

$$2n=34^6$$

$$2n=38^{2,3,5,6}$$

$$2n=40^{5,6}$$

$$2n=42^{5,6}$$

$$2n=44^5$$

$$2n=80^4$$

$$2n=84^6$$

11. Gametic chromosome number(s): $n=18^2$

$$n=19^{2,3,5}$$

$$n=20^{1,2}$$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytenechromosom chromosomes):

13. Ploidy level: Diploid^{2,3}, Polyploid⁶

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: Chromosome level⁶

20. Cytogenetic mechanism(s) underlying evolution Both polyploidy and aneuploidy have played a role in evolution of the genus^{2,5,6}

21. Linkage map:

22. Any other information: