

Genus Datasheet

Datasheet No. A-028.006
(Family: Genus)

DBT- Network Programme

1. Genus: *Aglaonema* Schott

2. Systematic Position:

APG IV (2016)

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

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Aglaonema* Schott

3. Species:

Global: 22

India: 3

4. Taxonomic riddles:

5. Distribution:

Global: India to Papua New Guinea.

India: Andaman and Nicobar Island, Arunachal Pradesh, Assam, Kerala, East Himalaya, Maharashtra, Manipur, Meghalaya, Mizoram, Sikkim, Tamil Nadu, Tripura, West Bengal,

6. Habit and Habitat: Evergreen herbs. Tropical humid forest; terrestrial on forest floor, occasionally in deciduous forest, in humus deposits on limestone and in peat deposits

7. Economic Importance: Used as an ornamental plant

8. DNA content range:

Methodology:

9. Basic chromosome number(s): $x=8^{10}$
 $x=10^{1,2,8}$

10. Zygotic chromosome number(s): $2n=14^4$
 $2n=16^{10}$
 $2n=38^{11}$
 $2n=40^{7,8,11}$

$$2n=42^{7,9}$$

$$2n=48^{11}$$

$$2n=56^7$$

$$2n=60^{1,3}$$

$$2n=100^8$$

$$2n=119(118-120)^2$$

$$2n=120^{1,3}$$

11. Gametic chromosome number(s): $n=20^2$

$$n=30^2$$

$$n=40^2$$

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

13. Ploidy level:Decaploid⁸, polyploid¹¹

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

15. Aberrantchromosomenumber(s) (aneuploidy,aneusomaty, polysomaty):

16.Karyograms:^{4,7,11}

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH

19.Phylogenetic relationship atChromosomal; DNA level:DNA level⁵

20. Cytogenetic mechanism(s) underlying evolution: Both aneuploidy and euploidy play impc origin and evolution of the species⁴

21. Linkage map:

22. Any other information: