

Genus Datasheet

DatasheetNo: A-377.003
(Family.Genus)

DBT- Network Programme

1. Genus: *Aphelandra* R.Br

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Aphelandra* R. Br.

Bentham and Hooker(1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Aphelandra* R. Br.

3. Species:

Global:196

India:3

4. Taxonomic riddles: Yes^{2, 6}

5. Distribution:

Global:Native to Southern America and Northern America.

India: Eastern India, Tamil Nadu

6. Habit and Habitat: Erect shrub, tropical to sub-tropical forests.

7. Economic Importance: Medicinal value and cultivated for their ornamental value.

8. DNA content range:

2C

4C

Methodology:

9. Basic chromosome number(s):

10. Zygotic chromosome number (s): $2n=68^1$ $2n=28^2$ $2n=56^4$

11. Gametic chromosome number (s): $n=14^{3, 6, 7, 8}$ $n=28^{4, 5}$

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

13. Ploidy level: Diploid ^{2,3,4,5}
14. Nature of polyploidy (auto, segmental, allo, autoallo):
15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):
16. Karyograms: Meiosis:
17. Banding pattern(s):
18. Physical mapping of chromosomes: GISH:
19. Phylogenetic relationship at Chromosomal; DNA level: Chromosomal level
20. Cytogenetic mechanism (s) underlying evolution
21. Linkage map:
22. Any other information: