

Species Datasheet

Datasheet No. A-377.003.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Aphelandra arborea* (Mill.) M.R.Almeida

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Aphelandra cristata* Lindl., *A. imperialis* Voss, *A. tetragona* (Vahl) Nees, *A. tetragona* var. *grandis* Nees, *A. tetragona* var. *imperialis* Gaertd & Wittm., *Justicia arborea* Mill., *J. tetragona* Vahl

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Aphelandra* R. Br.
- Species: *A. arborea* (Mill.) M.R.Almeida

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Aphelandra* R. Br.
- Species: *A. arborea* (Mill.) M.R.Almeida

4. Distribution:

Global: Bolivia, India, Venezuela and West Indies

India: Mostly found in Eastern India

5. Indigenous/Exotic/ Endemic; Cultivated/Wild: Exotic; wild but also cultivated for their ornamental value.

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Shrub, plants may be grown in mild climates, in humus-rich soil

8. Life Form: Chamaephytes

9. Economic Importance: Cultivated for their ornamental value.

10. Probable Progenitor of:

11. DNA

C- Value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=56^4$

14. Gametic chromosome number(s): $n=28^{4,5}$

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

Image file

16. Ploidy level:

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

Chromosome size

NOR chromosome(s)

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

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

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