

Species Datasheet

Datasheet No. A-377.003.003
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Aphelandra scabra* (Vahl) Sm.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Adhatoda scabra* (Vahl) Nees, *Aphelandra cristata* Kunth, *A. deppeana* Schltdl. & Cham., *A. fulgens* Decne., *A. haenkeana* Nees, *A. pectinata* Willd. ex Nees, *A. pectinata* var. *macra* Nees, *A. scabra* var. *angustifolia* Durkee, *A. scabra* var. *scabra*, *Ecbolium chapadanum* Kuntze, *E. scabrum* (Nees) Kuntze. *Justicia rostrata* Bertol., *J. scabra* Vahl, *Sarotheca scabra* Nees

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. scabra* (Vahl) Sm.

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. scabra* (Vahl) Sm.

4. Distribution:

Global: Belize, Caribbean, Colombia, Costa Rica, Dominican Republic (Introduced), El Salvador, Guatemala, Guyana, Honduras, India (Introduced), Mexico, Nicaragua, Panama, Surinam, Venezuela

India: Eastern India, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Shrub, found mainly in seasonally dry forests along the Northern Pacific slope but it can also be found in some moist to wet forests and in plains to mid altitude regions.

8. Life Form: Chamaephytes

9. Economic Importance: Medicinal (antimicrobial and immunomodulatory activity) and also used as ornamental

10. Probable Progenitor of:

11. DNA

C- Value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=28^2$

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

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):