

Species Datasheet

Datasheet No. A-061.107.009
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Vanda spathulata* (L.) Spreng.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Aerides maculata Buch.-Ham. ex Sm.

Cymbidium spathulatum (L.) Moon

Epidendrum spathulatum L.

Limodorum spathulatum (L.) Willd.

Taprobaneaspathulata (L.) Christenson

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Genus: *Vanda* R.Br.
- Species: *Vanda spathulata* (L.) Spreng.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Genus: *Vanda* R.Br.

Species: *Vanda spathulata* (L.) Spreng.

4. Distribution:

Global: Southern India and Sri Lanka

India: Andhra Pradesh, Karnataka, Kerala, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Large sized, hot to warm growing vine-like, scrambling terrestrial

8.Life Form:Herbaceous perennial

9.Economic Importance:Medicinal, flowers used for asthma

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{7, 28, 30}$

13. Zygotic chromosome number(s): $2n=76^{28, 114^{7, 30}}$

14. Gametic chromosome number(s): $n=38^{30}$

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

Image file

16.Ploidy level:Tetraploid^{28, 30}

Hexaploid^{7, 30}

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 Tetraploid: 38 II ³⁰

Image file

27.Chromosome distribution at anaphase I: Tetraploid: 38:38 distribution at A-I³⁰

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29.Any other information (Apoixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationetc.):