

Species Datasheet

Datasheet No. A-061.107.008
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Vanda pumila* Hook.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Trudeliapumila (Hook.f.) Senghas

3. Systematic Position:

APG IV (2016)

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Genus: *Vanda* R.Br.
Species: *Vanda pumila* Hook.f.

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Genus: *Vanda* R.Br.
- Species: *Vanda pumila* Hook.f.

4. Distribution:

Global: India (northern India, Sikkim) Bhutan, , Nepal, Myanmar, southern China, Vietnam, Laos, Thailand and Sumatra in semi-deciduous and deciduous dry lowland forests and savana-like woodlands at elevations of sealevel to 800 m

India: Northern India, Sikkim, Assam

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Small sized, warm to cool growing epiphyte

8.Life Form:Herbaceous perennial

9.Economic Importance:Cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{10}, 20^{20}$

13. Zygotic chromosome number(s): $2n=38^{10}, 40^{20}$

76^{11}

72^{10}

14. Gametic chromosome number(s): $n=$

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

Image file

16.Ploidy level: Diploid^{10, 20}

Tetraploid¹¹

Tetraploid (aneuploidy)¹⁰

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:²⁰

Karyotype Median, submedian²⁰

Chromosome size Small²⁰

NOR chromosome(s) 4²⁰

Degree of asymmetry Symmetrical²⁰

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

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Aponixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):