

Species Datasheet

Datasheet No. A-061.107.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Vanda alpina* (Lindl.) Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Luisia alpina Lindl.

Stauropsis alpina (Lindl.) Tang & F.T. Wang

Trudelia alpina (Lindl.) Garay

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 alpina* (Lindl.) Lindl.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Genus: *Vanda* R.Br.

Species: *Vanda alpina* (Lindl.) Lindl.

4. Distribution:

Global: India (western and eastern Himalayas, Sikkim) Assam, Nepal, Bhutan, and southern China in warm broad-leaved forests at elevations of 1200 to 2000m

India: Eastern Himalayas, Assam, Sikkim

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Cold growing epiphyte

8.Life Form:Herbaceous perennial

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{17, 20, 31}$

13. Zygotic chromosome number(s): $2n=38^{17, 20, 31}$

14. Gametic chromosome number(s): $n=19^{17}$

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

Image file

16.Ploidy level:Diploid^{17, 20, 31}

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 sizeSmall²⁰

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 19Π¹⁷

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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