Species Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.014.006 (family.genus.species) **DBT- Network Programme**

1. **Taxon:**

Species: *Calanthe clavata* Lindl.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:*Calanthe clavata* var. *malipoensis* Z.H.Tsi**,** *Styloglossum clavatum* (Lindl.) T.Yukawa & P.J.Cribb

2. **Systematic Position:**

APG IV (2016)

- Kingdom: Plantae
- Clade: Angisperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Collabieae
- Genus: *Calanthe* R.Br.
- Species:*Calanthe clavata* Lindl.

Bentham and Hooker(1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Blettieae
Genus: *Calanthe* R.Br.
Species:*Calanthe clavata* Lindl.

4.Distribution:

Global: China, Taiwan, Bangladesh, Himalayas, India, Myanmar, Thailand, Malaysia, Vietnam

India: Eastern Himalayas, Assam, Meghalaya, Mizoram, Nagaland,

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Terrestrial herbs, grows on decaying humus near water channels in thick forests at 1300m

8.Life Form: Cryptophytes

9.Economic Importance: Cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=20 [4, 14, 17, 23]

13. Zygotic chromosome number(s):2n=40[4, 14, 17, 23]

14. Gametic chromosome number(s):n=20[14, 17, 23]

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

Image file

16.Ploidy level: Diploid [4, 14, 17, 23]

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 meiosis20II frequentmultiple associations and univalents at M-I, some bivalents loosely associated[17, 23]

Image file

27.Chromosome distribution at anaphase I:20:20 segragation at A-I, often laggards and unequal distribution observed[17, 23]

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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