

Species Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.014.003
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Calanthebiloba*Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

3.Systematic Position:

APG IV (2016)

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

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Blettieae

Genus: *Calanthe* R.Br.

Species: *Calanthebiloba*Lindl.

4.Distribution:

Global:China, Nepal, India, Myanmar, Thailand

India: KhasiJaintia hills, Manipur,Sikkim, Arunachal Pradesh, Nagaland, Uttarakhand, West Bengal

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Terrestrial herbs; grows on moist shady forest floor up to 1800m

8.Lifeform:Cryptophytes

9.Economic Importance: Cultivated ornamental

10. Probable Progenitor of:

11.DNA

12. Basic chromosome number(s): $x=19^{25}, 20^{18, 26, 31}$

13. Zygotic chromosome number(s): $2n=38^{25}, 40^{26, 31}, 80^{18}$

14. Gametic chromosome number(s): $n=40^{18}$

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

Image file

16. Ploidy level: Diploid^{25, 26, 31}, Tetraploid¹⁸

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:²⁶ (Shekhar 1984)

Karyotype Median, submedian, 1 pair subterminal²⁶

Chromosome size Small²⁶

NOR chromosome(s)

Degree of asymmetry Symmetrical²⁶

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: 40II^{18}

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.):