

Datasheet No. A-061.014.002
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Calanthe alpina* Hook.f. exLindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Calanthebuccinifera* Rolfe ex Hemsl., *Calanthe fimbriata* Franch., *Calanthe fimbriatamarginata* Fukuy., *Calantheschlechteri* H.Hara

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: *Calanthe alpina* Hook.f. exLindl.

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Blettieae
Genus: *Calanthe* R.Br.
Species: *Calanthe alpina* Hook.f. exLindl.

4.Distribution:

Global: China, Japan, Taiwan, eastern Himalayas, India, Nepal and the western Himalayas 1500 to 4000 m

India: Western and Eastern Himalayas, Arunachal Pradesh, Meghalaya, Nagaland, Uttarakhand, West Bengal

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Terrestrial herbs, grows in montane forests or on grassy slopes upto 1500-4000m

8.Lifeform: Cryptophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

12. Basic chromosome number(s): $x=20^{18, 27, 31}$, 21^{28}

13. Zygotic chromosome number(s): $2n=40^{18, 27, 31}$, 42^{28}

14. Gametic chromosome number(s): $n=20^{18}$

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

Image file

16. Ploidy level: Diploid^{18, 27, 28, 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:

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 2011¹⁸

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.):