

Datasheet No. A-061.014.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Calanthechloroleuca*Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Alismorchischloroleuca* (Lindl.) Kuntze, *Alismorkischloroleuca* (Lindl.) Kuntze, *Calanthe galeata* Lindl.

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: *Calanthechloroleuca* Lindl.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Blettieae

Genus: *Calanthe* R.Br.

Species: *Calanthechloroleuca* Lindl.

4.Distribution:

Global: India, eastern Himalayas, Nepal

India: Eastern Himalayas 2000-2700

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

6.Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Terrestrial herbs; Grows on rotting leaf-mold in shady places in thick forests in temperate climate

8.Life Form: Cryptophytes

9.Economic Importance: Ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=14^{21, 25}, 20^{15, 17, 23, 26, 33}$

13. Zygotic chromosome number(s): $2n=40^{15, 26, 33}, 28^{21, 25}$

14. Gametic chromosome number(s): $n=20^{15, 17, 23}$

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

Image file

16.Ploidylevel:Diploid^{15, 17, 21, 23, 25, 26, 33}

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

KaryotypeMedian, submedian, 1subterminal pair²⁶

Chromosome sizeSmall²⁶

NOR chromosome(s)

Degree of asymmetrySymmetrical²⁶

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 Multiple associations at diakinesis, irregular meiosis suggests probable hybrid nature ^{17, 23}

Image file

27.Chromosome distribution at anaphase I: Laggards in 50% PMC's, monads, dyads, triads and tetrads and micronuclei^{17, 23}

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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