

## Species Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.014.017  
(family.genus.species)

DBT- Networ

### 1. Taxon:

**Species:** *Calanthe tricarinata* Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

**2. Synonyms:** *Calanthe lamellata* Hayata, *Calanthe megalophora* Franch., *Calanthe occidentalis* Lindl., *Calanthe pantlingii* Schltr., *Calanthe torifera* Schltr., *Calanthe undulata* Schltr., *Paracalanthe lamellata* (Hayata) Kudô, *Paracalanthe megalophora* (Franch.) Miyabe & Kudô, *Paracalanthe torifera* (Schltr.) Kudô, *Paracalanthe tricarinata* (Lindl.) Kudô

### 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 tricarinata* 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 tricarinata* Lindl.

### 4. Distribution:

**Global:** Pakistan, Nepal, Myanmar, China, India, Taiwan, Korea, Ryukyu Islands, Japan

**India:** North-West Himalayas

**5. Indigenous/Exotic/Endemic; Cultivated/Wild:** Indigenous, cultivated

### 6. Threat Status:

**IUCN:**

**BSI:**

**7. Habit and Habitat:** Terrestrial herbs, grows in shady places in forests at 2650m

**8. Life Form:** Cryptophytes

**9. Economic Importance:** Cultivated ornamental, medicinal, leaf paste applied to skin diseases

**10. Probable Progenitor of:**

**11. DNA**

**C-value      Methodology**

2C (26.48 pg)<sup>20</sup>      FeulgenMicrodensitometry<sup>20</sup>

**12. Basic chromosome number(s):**  $x=20$ <sup>3, 4, 6, 8, 9, 10, 11, 12, 20, 28, 31, 21, 25</sup>

**13. Zygotic chromosome number(s):**  $2n=40$ <sup>3, 4, 6, 8, 9, 10, 20, 28, 31</sup> ,  $42$ <sup>21, 25</sup> ,  $60$ <sup>10</sup>

**14. Gametic chromosome number(s):**  $n=20$ <sup>9, 11, 12, 28</sup>

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

Image file

**16. Ploidy level:** Diploid<sup>3, 4, 6, 8, 9, 11, 10, 12, 20, 21, 25, 28, 31</sup> ,

Triploid<sup>10</sup>

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:**<sup>6, 11, 12</sup>

**Karyotype** Median, submedian<sup>6, 11, 12</sup>

**Chromosome size** Small<sup>6, 11, 12</sup>

**NOR chromosome(s)**

**Degree of asymmetry** Symmetrical<sup>6, 11, 12</sup>

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** 20II<sup>9, 11, 12</sup>

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.):**