

Datasheet No. A-061.014.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Calanthe alismifolia* Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Calanthe austrokiusiuensis* Ohwi, *Calanthe fauriei* Schltr., *Calanthe furcata* var. *alismifolia* (Lindl.) M.Hiroe, *Calanthe furcata* f. *fauriei* (Schltr.) M.Hiroe, *Calanthe japonica* Blume ex Miq., *Calanthe nigropuncticulata* Fukuy.

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 alismifolia* 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 alismifolia* Lindl.

4. Distribution:

Global: Japan, Ryukyus, Taiwan, India, Himalayas, Bhutan, Hubei, Hunan, Sichuan, Yunnan, China, Vietnam

India: Himalayan distribution from Garhwal to Sikkim and Khasi and Jaintia hills in temperate climates from 1800-3000m, Arunachal Pradesh, Meghalaya, Nagaland, Uttarakhand, West Bengal

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Terrestrial herbs

8. Life Form: Cryptophytes

9.Economic Importance:Cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20^{3, 26, 27, 28, 34}, 22^{21, 25}$

13. Zygotic chromosome number(s): $2n=40^{3, 27, 28, 34}, 44^{21, 25}$

14. Gametic chromosome number(s): $n=20^{26}$

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

Image file

16.Ploidylevel:Diploid^{3, 21,25, 26, 27, 28, 34}

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 20 II ²⁷

(Shekhar 1984)

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;Translocationsetc.):**