

Species Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.002.003
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Acanthophippium sylhetense* Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Acanthophippium ringiflorum* Griff., *Acanthophippium yamamotoi* Hayata

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Collabieae
- Genus: *Acanthophippium* Blume
- Species: *Acanthophippium sylhetense* Lindl.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Beletieae
Genus: *Acanthophippium* Blume
Species: *Acanthophippium sylhetense* Lindl.

4. Distribution:

Global: Bangladesh, Myanmar, Thailand, Malaysia, Philippines, India, Japan, Ryukyu Islands & Taiwan

India: Assam, Arunachal Pradesh, Sikkim, Meghalaya, Mizoram, Nagaland, West Bengal, Odisha

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Pseudobulbous, Grows in tropical valleys moist shady dense forests

8. Life Form: Cryptophytes

9.Economic Importance:Cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

2C (14.96pg) ⁹ Feulgen Microdensitometry⁹ (Narayan et al 1989)

12.Basic chromosome number(s):2n^{8, 9, 13, 14}

13. Zygotic chromosome number(s):2n=40^{8, 9, 13, 14}

Vij, S. P., N. Shekhar, R. Kuthiala & A. Sood. 1983. In: IOPB chromosome number reports LXXVIII. Taxon 32: 138. Mehra, P.N. & Vij, S.P. 1970; Vij, S.P. & Mehra, P.N. 1976, Narayan RKJ, Parida A, Vij SP. 1989. DNA variation in Orchidaceae. Nucleus 32: 71-75.
Shekhar 1984

14. Gametic chromosome number(s):n=20¹² (Shekhar 1984)

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

Image file

16.Ploidy level: Diploid^{8, 9, 12, 13, 14}

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:¹²(Shekhar 1984)

KaryotypeMostly median and submedian two pairs terminal¹²

Chromosome sizeSmall¹²

NOR chromosome(s)

Degree of asymmetrySymmetrical¹²

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 2011¹² (Shekhar 1984)

Image file

27. Chromosome distribution at anaphase I: 20:20 distribution at A-I ¹² (Shekhar 1984)

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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