

Genus Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.013
(Family.Genus)

DBT- Network Programme

1. Genus: *Bulbophyllum* Thouars

2. Systematic Position:

APG IV

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxideae
- Subtribe: Dendrobieae
- Genus: *Bulbophyllum* Thouars

Bentham and Hooker

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Dendrobieae
Genus: *Bulbophyllum* Thouars

3. Species:

Global: 2105

India: 98

4. Taxonomic riddles: 33, 34

5. Distribution:

Global: India, China, Australia, Africa, Bangladesh, Bhutan, Nepal, Myanmar, Thailand, Vietnam, Philippines, Japan, Indonesia, Pacific Islands, Malaysia, Taiwan, Sri Lanka, Madagascar, Mexico, Ethiopia, Guinea, Brazil, Cambodia, Jawa, Korea, New Zealand, Kenya

India: Assam, Arunachal Pradesh, Nagaland, Mizoram, Sikkim, Karnataka, Maharashtra, Kerala, Tamil Nadu, Goa, West Bengal, Manipur, Meghalaya, Uttarakhand, Andaman & Nicobar Islands

6. Habit and Habitat: Plants epiphytic her grow in evergreen, semi evergreen forests

7. Economic Importance: Ornamental, medicinal

8. DNA content range:

Methodology

9. Basic chromosome number(s): $x=18^{22}$, $19^{1,4,6,7,8,9,11,13,14,15,16,18,19,20,23,24,26,27,29,30,31}$,
 $20^{2,11,19,20,24,27}$, $21^{2,17,19,24}$

10. Zygotic chromosome number(s): $2n=36^{22}$, 38^{1,4, 6, 7, 8, 9, 13, 14, 16,18,20,26, 27, 31} ,

38+B²⁰, 38+2B²⁷ , 38+0-3B¹⁰ , 38-40⁵, 40^{2, 11,20, 27} , 42^{2, 17}

11. Gametic chromosome number(s): $n=19$ ^{1, 15,16,18, 19,20,23, 24, 29, 30} , 19+B²⁰, 19+0-3B^{8, 11,}

20^{19,20, 24} , 21^{17, 19, 24}

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ Neocentric chromosomes):

13. Ploidy level Diploid^{1,2, 4, 6, 7, 8, 9, 11, 13, 14, 15, 16, 18, 17, 19,20, 22, 23, 24,26, 27, 29, 30, 31}

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): 19, 24, 26

16. Karyograms: 26

Meiosis: 8, 13, 14, 19, 23, 24

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: 33, 34

Wannaninii P Srihoonlert A 2015 Molecular phylogenetics of species of Bulbophyllum sect Tr

Freudenstein JV, Chase MW 2015 Phylogenetic relationships in Epidendroideae (Orchidaceae) flowering plant radiations: progressive specialization and diversification. *Annals of Botany* 115:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: