

Species Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.013.073
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Bulbophyllum reptans* (Lindl.) Lindl. ex Wall.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Bulbophyllum clarkei* Rchb.f., *Bulbophyllum grandiflorum* Griff. [Illegitimate], *Bulbophyllum ombrophilum* Gagnep., *Bulbophyllum reptans* (Lindl.) Lindl., *Bulbophyllum reptans* var. *acuta* Malhotra & Balodi, *Bulbophyllum reptans* var. *subracemosa* Hook.f., *One racemosa* (Sm.) Seidenf., *Phyllorkis reptans* (Lindl.) Kuntze, *Stelis racemosa* Sm., *Sunipiaracemosa* (Sm.) Tang & F.T. Wang, *Tribrachiaracemosa* (Sm.) Lindl., *Tribrachiareptans* Lindl.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxideae
- Subtribe: Dendrobieinae
- Genus: *Bulbophyllum* Thouars
- Species: *Bulbophyllum reptans* (Lindl.) Lindl. ex Wall.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Dendrobieae
Genus: *Bulbophyllum* Thouars
Species: *Bulbophyllum reptans* (Lindl.) Lindl. ex Wall.

4.Distribution:

Global: Hainan, Guangxi, China, Bhutan, Myanmar, Thailand, Laos, Vietnam, India

India: Sikkim, Arunachal Pradesh, Manipur, Meghalaya, Nagaland, West Bengal, Uttarakhand

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Epiphytes; grows on tree trunks 1200-2500 m

8.Life Form: Phanerophytes

9.Economic Importance: Ornamental

10. Probable Progenitor of:

11.DNA

C-value

Methodology

2C (8.29 pg)²¹Feulgen Microdensitometry²¹

12. Basic chromosome number(s): $x=19$ ^{8, 9, 13, 14, 21, 23}, 21 ²⁵

13. Zygotic chromosome number(s): $2n=38$ ^{8, 9, 13, 14, 21, 23}, 42 ²⁵

14. Gametic chromosome number(s): $n=19$ ³¹ Vij et al 1976), $19+2B$ ^{19, 24}

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes): $2B$'s observed^{19, 24}

Image file

16. Ploidy level: Diploid^{8, 9, 13, 14, 19, 21, 23, 24, 25, 31}

Image file

17. Agametoploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): In one population some variant PMC's with 18 II's and 20 II's observed^{19, 24}

21. Somatic chromosomes:^{8, 13, 14}

Karyotype Median, submedian^{8, 13, 14}

Chromosome size Small with gradual size gradation^{8, 13, 14}

NOR chromosome(s)

Degree of asymmetry Symmetrical^{8, 13, 14}

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 19 II's+2B, secondary associations observed, in another population few variant PMC's with 18 and 20 II's observed along with normal 19 II's^{19, 24}

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.):