Species Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.013.043
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species**:** *Bulbophyllumleopardinum*(Wall.) Lindl.ex Wall.
Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:*Bulbophyllumcolomaculosum*Z.H.Tsi&S.C.Chen,*Bulbophyllumleopardinum* (Wall.) Lindl.,*Dendrobiumleopardinum* Wall., *Phyllorkisleopardina* (Wall.) Kuntze, *Sarcopodiumleopardinum* (Wall.) Lindl. & Paxton, *Sarcopodiumleopardinum* (Wall.) Lindl.

3.Systematic Position:

APG IV (2016)

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

4.Distribution:

Global: India, Nepal, Bhutan, China, Myanmar, Thailand

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

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Grows as lithophyte as well as epiphyte at 1400-1900 m

8.Life Form: Phanerophytes

9.Economic Importance:cultivated ornamental, medicinal, whole plant pulp used for burns

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=18[16],19[2, 20, 23, 27]

13. Zygotic chromosome number(s):2n=38[2, 20, 23, 27] ,36[16]

14. Gametic chromosome number(s):n=18[16] , 19 [19, 20, 23, 24]

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

Image file

16.Ploidylevel: Diploid[2, 16, 20, 23, 27]

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:[23]

KaryotypeMedian, submedian one subterminalpair[23]

Chromosome size Small[23]

NOR chromosome(s)

Degree of asymmetry Symmetrical[23]

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 meiosis19 II[23]

Image file

27.Chromosome distribution at anaphase I:19 chromosomes at pollen mitosis, in some tetrads 18 as well as 19 chromosomes were observed in different cells[19, 24]

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationsetc.):55% pollen abnormal[19, 24]