

Datasheet No. A-061.013.041
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Bulbophyllumkaiense*Rchb.f

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:*Cirrhopetalumnigherrense* Wight, *Phyllorkiskaiensis* (Rchb.f.) Kuntze

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxideae
- Subtribe: Dendrobiinae
- Genus: *Bulbophyllum*Thouars
- Species:*Bulbophyllumkaiense*Rchb.f.

Bentham and Hooker(1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Dendrobieae

Genus: *Bulbophyllum*Thouars

Species:*Bulbophyllumkaiense*Rchb.f.

4. Distribution:

Global:India

India: Karnataka, Kerala, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat:Grows as epiphyte

8. Life Form: Phanerophytes

9. Economic Importance:Plant locally known as 'PurushRatna' and is used as tonic in Aurvedic system

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20$ ³²

13. Zygotic chromosome number(s): $2n=40$ ³²

14. Gametic chromosome number(s): $n=$

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

Image file

16.Ploidy level: Diploid³²

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:³²

Karyotype Median, submedian³²

Chromosome size Small³²

NOR chromosome(s)³²

Degree of asymmetry Symmetrical³²

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

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.):