

Species Datasheet AmUL+SUK+NEHU

Datasheet No. A-061.012.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Brachycorythisobcordata*(Lindl.) Summerh.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. **Synonyms:***Gymnadeniaobcordata* (Lindl. ex Wall.) Rchb.f.,*Habenariaobcordata* (Lindl. ex Wall.) Fyson, *Orchisobcordata*Buch.-Ham. exD.Don. *Phyllomphaxobcordata* (Lindl. ex Wall.) Schltr.,*Platantheraobcordata*Lindl. ex Wall.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link.
- Family: Orchidaceae Juss.
- Tribe: Orchideae
- Subtribe: Orchidinae
- Genus: *Brachycorythis* Lindl.
- Species: *Brachycorythisobcordata* (Lindl.) Summerh.

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Ophrydeae
Subtribus: Diseae
Genus: *Brachycorythis* Lindl.
Species: *Brachycorythisobcordata* (Lindl.) Summerh.

4.Distribution:

Global: India, Myanmar, Bangladesh

India: Arunachal Pradesh, Manipur, Nagaland, Himachal Pradesh, Uttarakhand

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

6.Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Terrestrial, grows on open grasslands or in forests at 1200-2000m

8. **Life Form:** Phanerophytes

9. **Economic Importance:** Cultivated ornamental, medicinal root used in dysentery, tonic

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{1,21^{2,3,4,5},23^{8,9}}$

13. Zygotic chromosome number(s): $2n=38^{1,42^{2,3,4,5}}$

14. Gametic chromosome number(s): $n=21^{2,3,5}, 23^{8,9}$

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

Image file

16.Ploidy level:Diploid^{1, 2, 3, 4, 5, 8, 9}

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:^{2, 5}

KaryotypeMedian, submedian, 5 subterminal pairs^{2, 5}

Chromosome size Small^{2, 5}

NOR chromosome(s)

Degree of asymmetryAsymmetrical^{2, 5}

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 21 II some show early disjunction^{3, 5}, 23 II ^{8, 9}

Image file

27.Chromosome distribution at anaphase I: 21:21 segregation at A-I^{2, 5}

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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