

Species Datasheet

Datasheet No. A-061.086.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species:

Subspecies: *Rhynchosstylis gigantea* subsp. *violacea* (Lindl.) Christenson

Variety:

Cultivar

Hybrid

Image file

2. **Synonyms:** *Anotaviolacea* (Lindl.) Schltr., *Gastrochilus violaceus* (Lindl.) Kuntze, *Rhynchosstylis violacea* (Lindl.) Rehb.f., *Saccolabium violaceum* (Lindl.) Sander, *Vandaviolacea* Lindl.

3. Systematic Position:

- APG IV (2016)**
- Kingdom: Plantae
 - Clade: Angiosperms
 - Clade: Monocots
 - Order: Asparagales Link
 - Family: Orchidaceae Juss.
 - Subfamily: Epidendroideae
 - Tribe: Vandaeae
 - Subtribe: Aeridinae
 - Genus: *Rhynchosstylis* Blume
 - Species: *Rhynchosstylis gigantea* subsp. *violacea* (Lindl.) Christenson

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Vandaeae
Subtribus: Sarcantheae
Genus: *Rhynchosstylis* Blume
Species: *Rhynchosstylis gigantea* subsp. *violacea* (Lindl.) Christenson

4. Distribution:

Global: Myanmar, Thailand, Malaysia, Laos, Cambodia, Vietnam, Hainan China, Borneo, and the Philippines, sea level to 700m

India:

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Medium sized, monopodial, warm to hot growing, vandanaceous epiphyte

8. **Life Form:** Phanerophytes

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

C-value **Methodology**

12. Basic chromosome number(s): $x=19$ ¹³

13. Zygotic chromosome number(s): $2n=38$ ¹³

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

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

Image file

16. Ploidy level: Tetraploid¹³

Image file

17. Agamete ploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:¹³

Karyotype Median, submedian¹³

Chromosome size Small¹³

NOR chromosome(s) 8¹³

Degree of asymmetry Symmetrical¹³

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.):