

Species Datasheet

Datasheet No. A-061.043.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Crepidium acuminatum* (D. Don) Szlach.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Corymborkis acuminata* \(D. Don\) M.R. Almeida](#)

[*Crepidium bilobum* \(Lindl.\) Szlach. ex Lucksom](#)

[*Malaxis acuminata* D. Don](#)

[*Malaxis acuminata* var. *biloba* \(Lindl.\) Ames](#)

[*Malaxis acuminata* f. *biloba* \(Lindl.\) Tuyama](#)

[*Malaxis allanii* S.Y. Hu & Barretto](#)

[*Malaxis biloba* \(Lindl.\) Ames](#)

[*Malaxis biloba* \(Lindl.\) Seidenf. & Smitin.](#)

[*Malaxis pierrei* \(Finet\) Tang & F.T. Wang](#)

[*Malaxis siamensis* \(Rolfe ex Downie\) Seidenf. & Smitin and](#)

[*Malaxis wallichii* \(Lindl.\) Deb](#)

[*Microstylis biloba* Lindl.](#)

[*Microstylis pierrei* Finet](#)

[*Microstylis pierrei* var. *rotundata* Finet](#)

[*Microstylis siamensis* Rolfe ex Downie](#)

[*Microstylis trigonocardia* Schltr.](#)

[*Microstylis wallichii* Lindl.](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link.
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxideae
- Subtribe: Malaxidinae
- Genus: *Crepidium* Blume
- Species: *Crepidium acuminatum* (D. Don) Szlach.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Genus: *Crepidium* Blume
Species: *Crepidium acuminatum* (D. Don) Szlach.

4. Distribution:

Global: China, Tibet, Eastern Asia Taiwan (Doubtful) Asia-Tropical India, Bangladesh, Nepal, India (West and East Himalaya, Andaman

Is.), Cambodia, Laos, Myanmar, Thailand, Vietnam, Malesia, Jawa, Malaya, Philippines, Sumatera, Australia

India: Throughout Himalayas, Assam, Andaman & Nicobar Is.

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Medium sized pseudobulbous geophyte or epiphyte in tropical Moist Forest 1500-2000m

8. Life Form: Phanerophyte

9. Economic Importance: Medicinally important known as 'Riddhi/Vriddhi'

10. Probable Progenitor of:

11. DNA

C-value Methodology

2C (5.02pg)¹⁰ Feulgen microdensitometry¹⁰

12. Basic chromosome number(s): $x=15$ ¹, 18^{9, 10, 13, 14, 16}, 21^{3, 5, 6, 7, 8, 12}

13. Zygotic chromosome number(s): $2n=30$ ¹, 36^{9, 10, 14, 16}, 42⁷

14. Gametic chromosome number(s): $n=15$ ¹, 18^{9, 13}, 21^{3, 5, 6, 7, 8, 12}

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

Image file

16. Ploidy level: Diploid^{1, 5, 6, 7, 8, 9, 10, 13, 14, 16}

Image file

17. Agametoploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

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 18II^{13} , $21\text{II}^{3, 5, 6, 8, 12}$

(Shekhar 1984)

Image file

27. Chromosome distribution at anaphase I: 18:18 segregation at A-1¹³

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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