

Species Datasheet

Datasheet No. A-044.001.006
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species *Burmannia nepalensis* (Miers) Hook. f.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Burmannia clementis* Schltr., *B. fadouensis* H.Li, *B. liukiuensis* Hayata, *Cyanotis nepalensis* (Miers) Wall., *Gonianthes nepalensis* Miers

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Dioscoreales Mart.
- Family: Burmanniaceae Blume
- Genus: *Burmannia* L.
- Species: *B. nepalensis* (Miers) Hook. f.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Microspermae
Ordo: Burmanniaceae Blume
Genus: *Burmannia* L.
Species: *B. nepalensis* (Miers) Hook. f.

4. Distribution:

Global: Japan, Nepal, Philippines, South China

India: Meghalaya

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herb. On humus – covered soil or rocks, among mosses.

8. Life Form: Chamaephytes

9. Economic Importance: -

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s): $x=6^3$

13. Zygotic chromosome number(s): $2n=24^3$

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level:

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: Majority submetacentric chromosomes³

Chromosome size: Small to medium³

NOR chromosome(s): 2 NOR³

Degree of asymmetry: Intermediate between symmetrical and asymmetrical³

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; Translocations etc):