

Species Datasheet

Datasheet No. A-044.001.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species *Burmannia championii* Thwaites

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Burmannia chionantha* Schltr., *B. dalzielii* Rendle, *B. huananensis* K.M.Liu & C.L.Long, *B. japonica* Maxim. ex Matsum., *B. tuberosa* Becc.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Dioscoreales Mart.
- Family: Burmanniaceae Blume
- Genus: *Burmannia* L.
- Species: *B. championii* Thwaites

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Microspermae
Ordo: Burmanniaceae Blume
Genus: *Burmannia* L.
Species: *B. championii* Thwaites

4. Distribution:

Global: Japan, Malayan Archipelago, Malayan Peninsula, Southern China,

India: Andaman and Nicobar Island, Kerala.

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

6. Threat Status:

IUCN: -

BSI: -

7. Habit and Habitat: Herb. Dense evergreen forests, moist places and near stream

8. Life Form: Chamaephytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=12$ ¹

$2n=64-72$ ²

$2n=176$ ³

14. Gametic chromosome number(s): $n=6$ ¹

$n=32-36$ ²

$n=88$ ³

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, aneusomaty, polysomaty):

21. Somatic chromosomes:

Karyotype: Majority metacentric or submetacentric chromosomes³

Chromosome size: Very small to small³

NOR chromosome(s)

Degree of asymmetry: Symmetrical³

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 88II³

Male meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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