

Species Datasheet

Datasheet No. A-028.003.011
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species *Amorphophallus muelleri* Blume

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Amorphophallus blumei* (Schott) Engl., *A. burmanicus* Hook.f., *A. carnosus* Engl., *A. erubescens* Hett., *A. oncophyllus* Prain ex Hook.f., *A. planus* Teijsm. & Binn., *A. timorensis* Alderw., *Arum muelleri* Zipp.ex Blume, *Brachyspatha muelleri* (Blume) Schott, *Conophallus blumei* Schott. *C. muelleri* (Blume) Miq., *C. planus* (Teijsm. & Binn.) Miq.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Amorphophallus* Blume ex Decne.
- Species: *A. muelleri* Blume

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Amorphophallus* Blume ex Decne.
Species: *A. muelleri* Blume

4. Distribution:

Global: Myanmar, Thailand, India, Malesia Borneo, Jawa, Lesser Sunda Island, Sumatera

India: Andaman Islands

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Tuberous herb. Tropical Dry Forest, ruderal and open secondary seasonal forests.

8. Life Form: Geophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value

2C (19.43pg)¹

Methodology

Feulgen microdensitometry¹

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=39^{1,7}$

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Triploid¹

Image file

17. Agametoploidy

18. Nature of polyploidy (auto, segmental, allo, autoallo): Allotriploid¹

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

21. Somatic chromosomes:

Karyotype: Majority metacentric chromosomes¹

Chromosome size: Small¹

NOR chromosome(s): 1NOR¹

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

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level ^{27,43,44,45}

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