

Species Datasheet

Datasheet No. A-028.003.002
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Amorphophallus bonaccordensis* Sivad. & N. Mohanan

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

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. bonaccordensis* Sivad. & N. Mohanan

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Amorphophallus* Blume ex Decne
Species: *A. bonaccordensis* Sivad. & N. Mohanan

4. Distribution:

Global: India

India: Kerala

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Tuberous herbs. Occurs at high altitude in evergreen forest.

8. Life Form: Geophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=26$ ^{8,9,14}

14. Gametic chromosome number(s): $n=13$ ¹⁴

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 to submetacentric chromosomes^{8,14}; one pair of chromosome is heteromorph¹⁴

Chromosome size Medium to large^{8,9}

NOR chromosome(s) 2NOR¹⁴

Degree of asymmetry: Stebbin's 3B class^{8,14}

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 13II ¹⁴

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level ¹²

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

One pair of heteromorphic bivalent supposed to be formed due to translocation ¹⁴;

Multinucleate cells or pollens¹⁴