

Species Datasheet

Datasheet No. A-028.003.014
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species *Amorphophallus sylvaticus* (Roxb.) Kunth

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Amorphophallus zeylanicus* Blume, *Arum sylvaticum* Roxb., *Brachyspatha sylvatica* (Roxb.) Schott, *B. zeylanica* (Blume) Schott, *Pythonium sylvaticum* (Roxb.) Wight, *Synantherias sylvatica* (Roxb.) Schott

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. sylvaticus* (Roxb.) Kunth

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Amorphophallus* Blume ex Decne
Species: *A. sylvaticus* (Roxb.) Kunth

4. Distribution:

Global: Sri Lanka, India

India: Karnataka, Kerala, Maharashtra, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Tuberous herb. Grows on hill slope

8. Life Form: Geotype

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s): $x=13$ ¹⁶

13. Zygotic chromosome number(s): $2n=26$ ^{15,16,17}
 $2n=28$ ^{8,9}

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, aneusomaty, polysomaty):

21. Somatic chromosomes:

Karyotype Majority metacentric chromosomes¹⁶, majority submetacentric chromosomes⁸

Chromosome size Small to large^{8,9}

NOR chromosome(s)

Degree of asymmetry: Stebbin's 1B class¹⁶, Stebbin's 2B class⁸

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):