

# Species Datasheet

Datasheet No. A-028.003.010  
(family.genus.species)

DBT- Network Programme

-

## 1. Taxon:

Species *Amorphophallus margaritifer* (Roxb.) Kunth

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Plesmonium margaritiferum* f. minor Engl., *P. margaritiferum* (Roxb.) Schott, *P. dubium* Schott, *Arum margaritiferum* Roxb.

## 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. margaritifer* (Roxb.) Kunth

### Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotylondon

Series: Nudiflorae

Ordo: Aroideae Arn.

Genus: *Amorphophallus* Blume ex Decne

Species: *A. margaritifer* (Roxb.) Kunth

## 4. Distribution:

**Global:** Bangladesh, India

**India:** Assam, Bihar, Madhya Pradesh, Maharashtra, Rajasthan, Sikkim, Uttar Pradesh, West Bengal

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

## 6. Threat Status:

**IUCN:**

**BSI:**

7. **Habit and Habitat:** Tuberos herbs. Grows on hill slope and margins of cultivated farming.

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):**  $2n=26$  <sup>41</sup>

$2n=39$  <sup>16</sup>

**14. Gametic chromosome number(s):**

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

Image file

**16. Ploidy level:** Triploid<sup>16</sup>

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 metacentric chromosomes<sup>16</sup>, majority metacentric to submetacentric chromosomes<sup>41</sup>

**Chromosome size** Small to medium<sup>16,41</sup>

**NOR chromosome(s)** 6NOR<sup>41</sup>

**Degree of asymmetry:** Stebbin's 1C class<sup>16</sup>

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): Apomixis<sup>16</sup>**