Species Datasheet

Datasheet No. A-028.005.017 **DBT- Network Programme**
(family.genus.species)

1. Taxon:

Species *Arisaema ghaticum* (Sardesai, S.P.Gaikwad & S.R.Yadav) Punekar & Kumaran
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Arisaema sahyadricum* var. *ghaticum* Sardesai, S.P.Gaikwad & S.R.Yadav

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Arisaema* (Wall.) Mart.
- Species: *A. ghaticum* (Sardesai, S.P.Gaikwad & S.R.Yadav) Punekar & Kumaran

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Arisaema* (Wall.) Mart.
Species: *A. ghaticum* (Sardesai, S.P.Gaikwad & S.R.Yadav) Punekar & Kumaran

4. Distribution:

Global: India

India: North Western Ghats from Sinhagad to the Mahabaleshwar region.

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Perennial tuberous herb, grow at altitudes of 1200–1400 m in rock crevices, near boulders, on steep grassy hillsides, and also in well-exposed soil-covered basaltic plateaus in association with *Arisaema murrayi*, *Begonia concanensis* A. DC., *Curculigo orchioides* Gaertner, *Heracleum grande* (Dalzell & A. Gibson) P. K. Mukhopadhyay, *Hypoxis aurea* Loureiro, *Impatiens dalzellii* Hooker f. & Thomson, *Sonerila scapigera* Dalzell, and *Typhonium venosum* (Dryander ex Aiton) Hetterscheid & P. C. Boyce.

8. Life Form: Tuberous Geophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value **Methodology**

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): 2n=28 [55]

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 chromosomes [55]

Chromosome size

NOR chromosome(s)

Degree of asymmetry: Stebbin's 1b class[55]

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):