

Species Datasheet

Datasheet No. A-028.005.012
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Arisaema erubescens* (Wall.) Schott

Subspecies:

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Arum erubescens* Wall.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Arisaema* Mart.
- Species: *A. erubescens* (Wall.) Schott.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Arisaema* Mart.
Species: *A. erubescens* (Wall.) Schott.

4. Distribution:

Global: India, Nepal

India: Sikkim

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

6. Threat Status:

IUCN: Not yet accessed

BSI:

7. **Habit and Habitat:** Perennial tuberous herbs grows in Pinus forests, mixed forests, thickets, grassy slopes, lakesides, between rocks.

8. **Life Form:** Tuberous Geophyte

9. **Economic Importance:** Tubers are source of Lectins.

10. **Probable Progenitor of:**

11. DNA

C- value

Methodology

12. Basic chromosome number(s): $x=14^{21}$

13. Zygotic chromosome number(s): $2n=28^{1,20,21,36}$
 $2n=56^{37}$

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 chromosomes³⁷

Chromosome size: Small to medium³⁷

NOR chromosome(s)

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

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