

Species Datasheet

Datasheet No. A-028.017.003
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Remusatia vivipara* (Roxb.) Schott

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Arum viviparum* Roxb., *Caladium viviparum* (Roxb.) Nees, *C. viviparum* Lodd., *Colocasia vivipara* (Roxb.) Thwaites, *Remusatia bulbifera* Vilm., *R. formosana* Hayata

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Remusatia* Schott
- Species: *R. vivipara* (Roxb.) Schott

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Remusatia* Schott
Species: *R. vivipara* (Roxb.) Schott

4. Distribution:

Global: Tropical & Subtropical Old World

India: Peninsular & East India, subtropical Himalaya.

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Rupicolous or epiphytic herb, growing in the humid soil in forests.

8. Life Form: Tuberous geophytes

9. Economic Importance: The tubers are poisonous. They are used externally to treat mastitis, traumatic injuries, abscesses, and swellings.

10. Probable Progenitor of:

11. DNA

C- value

1C (2.13pg) ⁷

2C (4.26pg) ⁷

4C (8.51pg) ⁷

Methodology

Flow cytometry ⁷

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=28$ ^{8,9,10}

$2n=42$ ^{1,4,11}

$2n=56$ ¹²

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Triploid ¹¹

Octaploid ¹²

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 ¹⁰, Majority metacentric to submetacentric chromosomes ⁸

Chromosome size: Very small to small ⁸, Small ¹⁰

NOR chromosome(s): 8 NOR ⁸

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: Chromosome bridge ¹¹

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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