

Species Data Sheet

Datasheet No. A-045.001.006
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dioscorea deltoidea* Wall.exGriseb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *D. deltoidea* var. *orbiculata* Prain&Burkill

3. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocot
- Order: Dioscoreales Mart.
- Family: Dioscoreaceae R. Br.
- Genus: *Dioscorea* L.
- Species: *D. deltoidea* Wall.exGriseb.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogams
Class: Monocotyledons
Series: Epigynae
Ordo: Dioscoreaceae R. Br.
Genus: *Dioscorea* L.
Species: *D. deltoidea* Wall.exGriseb.

4. Distribution:

Global: Africa, Tropical Asia, Australia, Europe, Southern America. Introduced in, Northern America and Africa

India: North East India

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Climbing herb. Commonly grown or cultivated for edible tubers.

8. **Life Form:** Tuberous geophyte

9. **Economic Importance:** Ethnically important as secondary food. Edible starchy tubers and bulbils. Steroids as saponins and sapogenins.

10. Probable Progenitor of:

11. DNA

C-value

Methodology:

12. Basic chromosome number(s): $x=10^{34}$

13. Zygotic chromosome number(s): $2n=20^{3,25,26,27,28,29,34}40^{8,16,26,34}$

14. Gametic chromosome number(s): $n=10^{3,23,25,27}$

15. Specialized chromosomes (B chromosomes/Sex chromosomes/polytene chromosomes/Neocentric chromosomes): Sex chromosomes²⁸

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16. Ploidy level: Diploid³⁴ Tetraploid^{26,34}

Image file

17. Agamete ploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo): Autopolyploidy²⁶

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy): Aneuploidy³⁴

21. Somatic chromosomes:

Karyotype:

Chromosome size: Small Size³⁴

NOR chromosome(s):

Degree of asymmetry:

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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: $10\text{II}^{28,34} \ 20\text{II}^{34}$

Image file

27. Chromosome distribution at anaphase I: $10:10^{34}20:20^{34}$

28. Genetic diversity:

Chromosomal level:

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc): Pollen Stainability-100%