

Species Data Sheet

Datasheet No. A-045.001.010
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dioscorea hispida* Dennst.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *D. daemona* Roxb., *D. daemona* var. *reticulata* Hook.f., *D. hirsuta* Blume, *D. hispida* var. *daemona* (Roxb.) Prain & Burkill, *D. hispida* var. *reticulata* (Hook.f.) Sanjappa, *D. lunata* Roth, *D. mollissima* Blume, *D. triphyllava* var. *daemona* (Roxb.) Prain & Burkill, *D. triphyllava* var. *mollissima* (Blume) Prain & Burkill, *D. triphyllava* var. *reticulata* (Hook.f.) Prain & Burkill, *Helmiadaemona* (Roxb.) Kunth, *H. hirsuta* (Blume) Kunth

3. Systematic position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

4. Distribution:

Global: Thailand, China to Indonesia New Guinea and northern Australia.

India: Gujarat, Maharashtra, Goa, Karnataka, Tamil Nadu, Kerala

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Climbing herb. Mainly found in open areas in mixed deciduous and evergreen forest on well drained soils; near sea level–1,200 m.

8. Life Form: Tuberous geophyte

9. Economic Importance: The tubers of *D. hispida* are a popular food.

10. Probable Progenitor of:

11.DNA

C-value

Methodology:

12.Basic chromosome number(s): $x=10^6$

13. Zygotic chromosome number(s): $2n=40^{1,3,6,8,15,16,21}50^{11}$

14. Gametic chromosome number(s):

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

Image file

16.Ploidy level:Tetraploid⁶

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:

Chromosome size:

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; Translocation etc):