

# Species Data Sheet

Datasheet No. A-045.001.020  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Dioscorea pentaphylla* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Botryosicyos pentaphyllus* (L.) Hochst., *D. changjiangensis* F.W.Xing & Z.X.Li, *D. codonopsidifolia* Kamik., *D. digitata* Mill., *D. globifera* R.Knuth, *D. Jacquemontii* Hook.f., *D. kleiniana* Kunth, *D. pentaphylla* var. *cardonii* Prain & Burkill, *D. pentaphylla* var. *communis* Prain & Burkill, *D. pentaphylla* var. *hortorum* Prain & Burkill, *D. pentaphylla* var. *Jacquemontii* (Hook.f.) Prain & Burkill, *D. pentaphylla* var. *Javanica* Burkill, *D. pentaphylla* var. *kussok* Prain & Burkill, *D. pentaphylla* var. *linnaei* Prain & Burkill, *D. pentaphylla* var. *malaica* Prain & Burkill, *D. pentaphylla* var. *palmata* Burkill, *D. pentaphylla* var. *papuana* Burkill, *D. pentaphylla* var. *rheedei* Prain & Burkill, *D. pentaphylla* var. *sacerdotalis* Burkill, *D. pentaphylla* var. *simplicifolia* Prain & Burkill, *D. pentaphylla* var. *suli* Prain & Burkill, *D. pentaphylla* var. *thwaitesii* Prain & Burkill, *D. pentaphylla* var. *unifoliata* R.Knuth, *D. spinosa* Burm., *D. triphylla* L., *Hamatristriphylla* (L.) Salisb., *Ubiunquadrifarium* J.F.Gmel., *U. scandens* J.St.-Hil.

## 3. Systematic position:

### APG IV (2016)

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

### Bentham and Hooker (1862)

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

## 4. Distribution:

**Global:** Asia to North Australia

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

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

## 6. Threat Status:

IUCN:

BSI:

**7. Habit and Habitat:** Climbing herb. Found in open and disturbed areas in mixed deciduous and evergreen forests

**8. Life Form:** Tuberous geophyte

**9. Economic Importance:** Tubers and bulbils edible, more commonly eaten in the north, usually peeled and boiled or roasted.

**10. Probable Progenitor of:**

**11.DNA**

**C-value**

**Methodology:**

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

**13. Zygotic chromosome number(s):** $2n=36^{14}40^{3,6,15,16,21}45^{14}50^{14,16,21}70^580^{8,11,15,16,17,21}144^{8,17}$

**14. Gametic chromosome number(s):**

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

Image file

**16.Ploidy level:**Tetraploid<sup>6</sup>

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:**

**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):**