

# Species Data Sheet

Datasheet No. A-045.001.029  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Dioscorea wallichii* Hook.f.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Dioscorea wallichii* var. *christiei* Prain & Burkill, *D. wallichii* var. *vera* 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. wallichii* Hook.f.

### Bentham and Hooker (1862)

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

## 4. Distribution:

Global: China, Bangladesh, India, Malaysia, Myanmar, Thailand, Burma

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

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

## 6. Threat Status:

IUCN:

BSI:

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

8. Life Form: Tuberous geophyte

9. Economic Importance: The tubers are edible when boiled after peeling.

## 10. Probable Progenitor of:

## 11. DNA

C-value

Methodology:

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

13. **Zygotic chromosome number(s):**  $2n=40^{6,8,15,21}$

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):**