

Species Data Sheet

Datasheet No. A-045.001.008
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dioscorea glabra* Roxb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *D. glabra* var. *longifolia* Prain & Burkill, *D. glabra* var. *vera* Prain & Burkill, *D. hongkongensis* Uline ex R. Knuth, *D. oryzetorum* var. *latifolia* Prain & Burkill, *D. oryzetorum* var. *mediifolia* Prain & Burkill, *D. siamensis* R. Knuth

3. Systematic position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

4. Distribution:

Global: Thailand, Mainland south and south-east Asia from Nepal and southern China to peninsular Malaysia. Very widespread in Thailand.

India: Andaman Islands, Goa, Karnataka

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Climbing herb. Found in open areas in mixed deciduous forest, evergreen forest, hill evergreen forest, pine forest, rock outcrop vegetation, beach forest, and margins of swampy areas at elevations; near sea level–1,500 m.

8. **Life Form:** Tuberous geophyte

9. **Economic Importance:** The tubers of *D. glabra* are highly fibrous and deeply buried. They are therefore not eaten except perhaps in times of severe famine.

10. Probable Progenitor of:

11.DNA

C-value

Methodology:

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^{28}$

14. Gametic chromosome number(s): $n=20^{25,27}$

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

Image file

16.Ploidy level:

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 (Apoixis; Inversion; Male sterility;Pollen grain mitosis;
Pollen stainability;Translocationsetc):**