

Species Data Sheet

Datasheet No. A-045.001.012
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dioscorea japonica* Thunb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *D. japonica* var. *japonica*, *D. japonica* var. *nagarum* Prain & Burkill, *D. japonica* var. *oldhamii* R. Knuth, *D. japonica* var. *pilifera* C. T. Ting & M. C. Chang

3. Systematic position:

APG IV (2016)

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

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogams
Class: Monocotyledons
Series: Epigynae
Ordo: [Dioscoreaceae](#) R. Br.
Genus: *Dioscorea* L.
Species: *D. japonica* Thunb.

4. Distribution:

Global: China, India, Japan, Korea, Nansei-shoto, Taiwan

India: Assam, North East India

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Climbing herb. Habitat ranges from grassland to forest, frequently by the edge of the forest or open area on small trees or shrubs.

8. **Life Form:** Tuberous geophyte

9. **Economic Importance:** Ethnically important

10. **Probable Progenitor of:**

11.DNA

C-value

Methodology:

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^{8,30,33}100^1 400^1$

14. Gametic chromosome number(s): $n=10^{29}$

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, 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):