Species Data Sheet

Datasheet No. A-045.001.009
       (family.genus.species)

DBT- Network Programme

1.Taxon:
Species:*Dioscoreahamiltonii*Hook.f.
Subspecies
Variety
Cultivar
 Hybrid

Image file

2. Synonyms:*D. persimilis* Prain&Burkill, *D.persimilis*var.*pubescens* C.T.Ting&M.C.Chang, *D. persimilis*var.*wukangensis* Hand.-Mazz., *D. raishaensis* Hayata

3. Systematic position:

APG IV (2016)
- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocot
- Order:DioscorealesMart.
- Family: DioscoreaceaeR. Br.
- Genus:*Dioscorea*L.
- Species:*D. hamiltonii*Hook.f.

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogams
Class: Monocotyledons
Series: Epigynae
Ordo: DioscoreaceaeR. Br.
Genus: *Dioscorea*L.
Species:*D. hamiltonii*Hook.f.

4.Distribution:

    Global: Thailand, India, southern China and Taiwan to southern Burma.

    India: Karnataka, Tamil Nadu, Kerala

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

6.Threat Status:

    IUCN:

    BSI:

7.Habit and Habitat: Climbing herb.Found inopen areas in mixed deciduous forest on limestone and other substrates

8.Life Form: Tuberous geophyte

9.Economic Importance: Tuber edible when boiled.

10. Probable Progenitor of:

11.DNA

       C-value   **Methodology:**

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^{1}$

14. Gametic chromosome number(s):

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.Genomicin 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;Translocationsetc):