

Species Data Sheet

Datasheet No. A-045.001.014
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dioscorea kamoonsensis* Kunth.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *D. bonatiana* Prain & Burkill, *D. brevifolia* (Prain & Burkill) K. Y. Guan & D. F. Chamb., *D. dissecta* R. Knuth, *D. fargesii* Franch., *D. firma* R. Knuth, *D. kamoonsensis* var. *brevifolia* Prain & Burkill, *D. kamoonsensis* var. *fargesii* (Franch.) Prain & Burkill, *D. kamoonsensis* var. *praecox* Prain & Burkill, *D. kamoonsensis* var. *straminea* Prain & Burkill, *D. kamoonsensis* var. *vera* Prain & Burkill, *D. mairei* R. Knuth, *D. mengtzeana* R. Knuth, *D. ochroleuca* K. Y. Guan & D. F. Chamb., *D. subfusca* 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. kamoonsensis* Kunth.

4. Distribution:

Global: Burma, China, India, Nepal, Thailand, Vietnam

India: North East India, Temperate Himalaya

Bentham and Hooker (1862)

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

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Climbing herb. Found usually in hill evergreen forest or deciduous dipterocarp forest with sandstone bedrock

8. Life Form: Tuberous geophyte

9. Economic Importance: Both the tubers and bulbils are said to be edible like those of *D. arachidna* or *D. pentaphylla*.

10. Probable Progenitor of:

11.DNA

C-value

Methodology:

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^{1,3,60^1,64^{8,17}}$

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.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):