Species Data Sheet

Datasheet No: A-045.001.001
(family.genus.species)

DBT- Network Programme

1.Taxon:
Species:*Dioscoreaalata*L.
Subspecies
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:*D.alata*var.*globosa* (Roxb.) Prain, *D.alata*var.*purpurea* (Roxb.)A.Pouchet, *D.alata*var.*tarri* Prain&Burkill, *D.alata*var.*vera* Prain&Burkill, *D.atropurpurea* Roxb., *D.colocasiifolia* Pax, *D.eburina* Lour., *D.eburnea* Lour., *D.globosa* Roxb., *D.javanica* Queva, *D.purpurea* Roxb., *D.rubella* Roxb., *D.sapinii* De Wild., *D. vulgaris* Miq., *Elephantodoneburnea* (Lour.) Salisb.,*Polynomealata* (L.) Salisb.

3. Systematic position:

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

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

4.Distribution:

Global: Africa, Tropical Asia, Australia, Europe, South America. Introduced inNorthern America and Africa

India: North East India

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Climbing herb**.** Commonly grown or cultivated for edible tubers.

8.Life Form: Tuberous geophyte

9.Economic Importance: Tubers are edible after cooking.

10. Probable Progenitor of:

11.DNA

C-value **Methodology:**

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):

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.):