

Species Datasheet

Datasheet No. A-140.030.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Macrotylomauniflorum*(Lam.) Verdc.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:***Dolichosbenadirianus*Chiov., *Dolichosuniflorus*Lam., *Kerstingiellauniflora*(Lam.) J.A.Lackey,*Kerstingiellauniflora*(Lam.) Lackey,*Macrotylomauniflorum*var.*uniflorum*

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superrosids
- Clade: Rosids
- Clade: Fabids
- Order: FabalesBromhead
- Family: Fabaceae Lindl.
- Genus: *Macrotyloma*(Wight & Arn.) Verdc.
- Species: *M.uniflorum*(Lam.) Verdc.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: PapilionaceaeGiseke
Genus: *Macrotyloma*(Wight & Arn.) Verdc.
Species: *M.uniflorum*(Lam.) Verdc.

4. Distribution:

Global: Africa, Australia, Bhutan, India, Pakistan, Nepal, Sri Lanka

India: Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Dadra-Nagar-Haveli, Delhi,Goa, Haryana, Himachal Pradesh, Jammu-Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Pondicherry, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Climbing herb.

8. **Life Form:** Chamaephyte

9. Economic Importance: Used as forage and medicine.

10. Probable Progenitor of:

11. DNA

C-value **Methodology**

12. Basic chromosome number(s): $x=7$ ¹

13. Zygotic chromosome number(s): $2n=20$ ^{1,2,3}, $2n=22$ ⁴

14. Gametic chromosome number(s): $n=10$ ¹, $n=11$ ⁴

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: ^{1,4}

Karyotype Metacentric/submetacentric chromosomes

Chromosome size

NOR chromosome(s) ²

Degree of asymmetry Symmetrical

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 10II ¹

Image file

27. Chromosome distribution at anaphase I: 10:10¹

28. Genetic diversity:

Chromosomal level

Image file

DNA level⁵⁻⁸

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis;

Pollen stainability; Translocation etc.): Pollen stainability : 85.93%¹