

Species Datasheet

Datasheet No. A-140.015.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Macroptilium lathyroides* (L.) Urb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Macroptilium lathyroides* var. *angustifolium* Stehlé, *M. lathyroides* var. *bustarretianum* Stehlé & Quentin, *M. lathyroides* var. *lathyroides*, *M. lathyroides* var. *semierectum* (L.) Urb., *Phaseolus crotalarioides* Benth., *P. hastaefolius* Benth., *P. hastifolius* Benth., *P. lathyroides* L., *P. lathyroides* f. *chacoensis* Hassl., *P. lathyroides* f. *hirsutus* Hassl., *P. lathyroides* f. *repandus* Hassl., *P. lathyroides* var. *semierectus* (L.) Hassl., *P. maritimus* Benth., *P. psoraleoides* Wight & Arn., *P. semierectus* L., *P. semierectus* var. *angustifolius* Benth., *P. semierectus* var. *nanus* Benth., *P. semierectus* var. *subhastatus* Benth., *P. strictus* Braun & Bouché

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superrosids
- Clade: Rosids
- Clade: Fabids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Genus: *Macroptilium* (Benth.) Urb.
- Species: *M. lathyroides* (L.) Urb.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: Papilionaceae Giseke
Genus: *Macroptilium* (Benth.) Urb.
Species: *M. lathyroides* (L.) Urb.

4. Distribution:

Global: Native of Tropical America, widely cultivated throughout tropics & subtropics.

India: Andhra Pradesh, Karnataka, Kerala, Maharashtra, Orissa, Rajasthan, Tamil Nadu, West Bengal

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Climbing herb.

8. Life Form: Chamaephytes

9. Economic Importance: Used as a forage, cover crop.

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s):

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

14. Gametic chromosome number(s): $n = 11^3$

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

Image file

16. Ploidy level:

Image file

17. Agameteoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:³

Karyotype Majority metacentric chromosomes

Chromosome size

NOR chromosome(s)

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

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.):