

Species Datasheet

atasheet No. A-140.047.072

DBT- Network Programme

family.genus.species)

1. Taxon:

Species *Crotalaria medicaginea*Lam.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

- *Crotalaria foliosa*Willd.
- *Crotalaria medicaginea*var. *medicaginea*
- *Crotalaria procumbens*Roxb.
- *Crotalaria virgata*C.Mart.
- *Crotalaria zollingeriana*Miq.
- *Indigofera capitata*Graham

3. Systematic Position:

Kingdom: ~~Plantae~~ **Plantae** Hooker (1862)

Division: Phanerogamia

Class: Dicotyledons

Subclass: Polypetalae

Series: Calyciflorae

Cohors: Rosales Bercht. & J. Presl

Ordo: LeguminosaeJuss.

Subordo: PapilionaceaeGiseke

Genus: *Crotalaria* L.

Species: *C. medicaginea*Lam.

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superrosids
- Clade: Rosids
- Clade: Fabids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Crotalaria L.*
- Species: *C. medicaginea*Lam.

4.Distribution:

Global: Southern-Eastern Asia,Australia, Oman, Papua New Guinea.

India

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat:Non-climbing, Herb. Habitat: Dry deciduous forests.

8.Life Form:Perennial

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s): $x=8$ ¹³

13. Zygotic chromosome number(s): $2n=16$ ^{2,7, 8, 13, 15, 29}

$$2n=32$$
⁹

14. Gametic chromosome number(s): $n=8$ ^{2, 6, 10, 16, 81, 82}

$$n=16$$
^{9,10, 25}

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):3 B Chromosomes^{15, 18}

Image file

16.Ploidy level:Diploid^{2, 7, 8, 9, 13, 15}

Tetraploid^{9,40, 80}

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:^{7,13, 15}

Karyotype:Majority metacentric chromosomes

Chromosome size:Medium

NOR chromosome(s): 4

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: 8II^2

Female meiosis

Male meiosis²

Image file

27. Chromosome distribution at anaphase I: 8:8²

28. Genetic diversity:

Chromosomal level

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc):

Pollen stainability: 75-100%²