

# Species Datasheet

## DBT- Network Programme

Datasheet No. A-140.047.078  
(family.genus.species)

### 1. Taxon:

Species *Crotalaria micans* Link  
Subspecies  
Variety  
Cultivar  
Hybrid  
  
Image file

### 2. Synonyms:

- *Crotalaria anagyroides* Kunth
- *Crotalaria brachystachya* Benth.
- *Crotalaria dombeyana* DC.
- *Crotalaria stipulata* Vell.
- *Crotalaria triphylla* Vell.

### 3. Systematic Position:

- 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. micans* Link

**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: *Crotalaria* L.  
Species: *C. micans* Link

### 4. Distribution:

**Global:** Southern-Eastern Asia, Africa, Americas, Dominica, Fiji, Papua New Guinea, Western Samoa.

### India

**5. Indigenous/Exotic/Endemic; Cultivated/Wild:** Indigenous, wild

### 6. Threat Status:

IUCN

BSI

**7. Habit and Habitat:** Non-climbing, Herb or shrub. Habitat- Forest, Grassland

**8. Life Form:** Perennial

**9. Economic Importance:** Used as a green manure

**10. Probable Progenitor of:**

**11. DNA**

**C-value Methodology**

**12. Basic chromosome number(s):**  $x=8$ <sup>45</sup>

**13. Zygotic chromosome number(s):**  $2n=16$ <sup>2,3, 13, 14, 15, 29, 36, 43, 45, 49, 53, 65, 83</sup>

**14. Gametic chromosome number(s):**  $n=8$ <sup>2, 45, 46, 49, 51, 84, 108</sup>

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

Image file

**16. Ploidy level:** Diploid<sup>2, 3, 13, 36, 45, 49, 84</sup>

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:** 3, 13, 14, 15, 45, 83

**Karyotype:** Majority Metacentric

**Chromosome:** Small

**NOR chromosome(s):** 2

**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:**  $8\text{II}^{2,45,49}$

**Female meiosis**

**Male meiosis**

**27. Chromosome distribution at anaphase I:**

**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%<sup>2</sup>