

# Species Datasheet

## DBT- Network Programme

Datasheet No. A-140.047.018  
(family.genus.species)

### 1. Taxon:

Species *Crotalaria brownei*  
Subspecies  
Variety  
Cultivar  
Hybrid  
  
Image file

2. **Synonyms:** According to "The Plant List": This name is a synonym of *Crotalaria pallida* Aiton.

### 3. Systematic Position:

- | APG IV (2016)                 | Bentham and Hooker (1862)          |
|-------------------------------|------------------------------------|
| • Kingdom: Plantae            | Kingdom: Plantae                   |
| • Clade: Angiosperms          | Division: Phanerogamia             |
| • Clade: Eudicots             | Class: Dicotyledons                |
| • Clade: Superrosids          | Subclass: Polypetalae              |
| • Clade: Rosids               | Series: Calyciflorae               |
| • Clade: Fabids               | Cohors: Rosales Bercht. & J. Presl |
| • Order: Fabales Bromhead     | Ordo: Leguminosae Juss.            |
| • Family: Fabaceae Lindl.     | Subordo: Papilionaceae Giseke      |
| • Subfamily: Faboideae Rudd   | Genus: <i>Crotalaria</i> L.        |
| • Genus: <i>Crotalaria</i> L. | Species: <i>C. brownei</i>         |
| • Species: <i>C. brownei</i>  |                                    |

### 4. Distribution:

**Global:** Antarctica, Americas, Africa, Australia, Southern-Eastern Asia.  
**India**

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

### 6. Threat Status:

IUCN

BSI

### 7. Habit and Habitat:

### 8. Life Form:

### 9. Economic Importance:

### 10. Probable Progenitor of:

## 11. DNA

### C-value Methodology

2C DNA = 2.08 pg Feulgen Micro densitometry<sup>11</sup>

4C DNA = 4.16 pg Feulgen Micro densitometry<sup>11</sup>

## 12. Basic chromosome number(s):

13. Zygotic chromosome number(s):  $2n=16$ <sup>11, 13, 14, 22, 23</sup>

14. Gametic chromosome number(s):  $n=8$ <sup>23</sup>

## 15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes): B chromosome<sup>15, 18</sup>

Image file

16. Ploidy level: Diploid<sup>11, 13, 14, 15, 22, 23</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: <sup>13, 14, 15, 22, 23</sup>

Karyotype: Majority Submetacentric chromosomes

Chromosome size: Medium

NOR chromosome(s): 2-4

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:** 8 II<sup>15, 23</sup>

**Female meiosis**

**Male meiosis**<sup>15, 23</sup>

Image file

**27. Chromosome distribution at anaphase I:** 8:8<sup>23</sup>

**28. Genetic diversity:**

**Chromosomal level**

**DNA level**

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

**Pollen stainability; Translocation etc):** Pollen stainability 90%<sup>23</sup>