

Species Datasheet

Datasheet No. A-140.047.003
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species *Crotalaria agatiflora* Schweinf.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:

- *Crotalaria dawei* Baker f.
- *Crotalaria engleri* Harms ex Engl.
- *Crotalaria erlangeri* (Baker f.) Harms ex Hutch. & Bruce
- *Crotalaria imperialis* Taub.
- *Crotalaria megistantha* Taub.
- *Crotalaria agatifolia* Schweinf.
- *Crotalaria agatiflora* subsp. *agatiflora*

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. agatiflora* Schweinf.

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. agatiflora* Schweinf.

4. Distribution:

Global: Americas, Africa, Australia, India, New Zealand.
India

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

6. Threat Status:

IUCN

BSI

7.Habit and Habitat:Evergreen shrub or small tree up to 1-10 m tall; mostly glabrous, young shoots softly hairy

8.Life Form:Annual/perennial

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=16^{1,2,3,4}$

14. Gametic chromosome number(s): $n=8^{1,2,3}$

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

Image file

16.Ploidy level:Diploid^{1,2,3,4}

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:^{2,3}

Karyotype: MajorlyMetacentric and Submetacentric

Chromosome size: Small

NOR chromosome(s)²

Degree of asymmetrysymmetrical

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 Π ^{2,3,4}

Female meiosis

Male meiosis: ^{2,3,4}

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