

Species Datasheet

DBT- Network Programme

Datasheet No. A-140.047.121
(family.genus.species)

1. Taxon:

Species *Crotalaria senegalensis* (Pers.) DC.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

- *Crotalaria carinata* Steud. ex A. Rich.
- *Crotalaria karongensis* Baker
- *Crotalaria macilenta* Delile
- *Crotalaria senegalensis* var. *carinata* (Steud. ex A. Rich.) Baker f.
- *Crotalaria senegalensis* var. *macilenta* (Delile) Chiov.
- *Crotalaria senegalensis* var. *sanguinolenta* Chiov. in Pirota
- *Crotalaria uncinella* var. *senegalensis* Pers.
- *Crotalaria maxillaris* sensu auct. (Misapplied)
- *Crotalaria shamvaensis* sensu Torre

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. senegalensis* (Pers.) DC.

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. senegalensis* (Pers.) DC.

4. Distribution:

Global: Angola, Antarctica, Benin, Cameroon, Egypt, Ethiopia, Guinea, Madagascar, Malawi, Mali, Mauritania, Niger, Nigeria, Senegal, Sudan, Tanzania.

India

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

6. Threat Status:

IUCN

BSI

7.Habit and Habitat:Non-climbing, herb.Habitat: Sandy plains.

8.Life Form:Annual or short-lived perennial.

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=16^{1,2,3,26,46}$

14. Gametic chromosome number(s): $n=8^{2,16,46}$

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

Image file

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

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:^{1,3}

Karyotype: MajorlySubmetacentric

Chromosome size: Small-Medium

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: 8II^2

Female meiosis

Male meiosis²

Image file

27. Chromosome distribution at anaphase I: $8:8^2$

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