

Species Datasheet

DBT- Network Programme

Datasheet No. A-140.047.122
(family.genus.species)

1. Taxon:

Species *Crotalaria sessiliflora* L.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:

- *Crotalaria anthylloides* Lam.
- *Crotalaria brevipes* Champ. ex Benth.
- *Crotalaria pallida* Blanco
- *Crotalaria burmanica* Collett & Hemsl.
- *Crotalaria calycina* "sensu Pulle, non Schrank"
- *Crotalaria eriantha* Siebold & Zucc.
- *Crotalaria nepaulensis* Link
- *Crotalaria oldhami* Miq.
- *Crotalaria sessiliflora* subsp. *Sessiliflora*
- *Crotalaria sessitiflora* L.

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. sessiliflora* L.

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. sessiliflora* L.

4. Distribution:

Global: Australia, Bangladesh, Bhutan, Burma, Cambodia, China, India, Pakistan, Indonesia, Japan, Laos, Malaysia, Nepal, North Korea, Papua New Guinea, Philippines, South Korea, Taiwan, Thailand, Vietnam.

India

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

6. Threat Status:

IUCN

BSI

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

8.Life Form:Annual

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=16^9, 10, 31, 105$

14. Gametic chromosome number(s): $n=8^{10, 106, 107}$

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

Image file

16.Ploidy level:Diploid³¹

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:

Karyotype

Chromosome size

NOR chromosome(s)

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: 8II³¹

Female meiosis

Male meiosis³¹

Image file

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 99.8%³¹