

Species Datasheet

Datasheet No. A-140.047.035
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species *Crotalaria ferruginea* Benth.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:

- *Crotalaria bodinieri* H. Lév.
- *Crotalaria ferruginea* var. *major* Baker
- *Crotalaria ferruginea* var. *pilosissima* Benth.
- *Crotalaria ferruginea* var. *pilosissima* (Miq.) Baker
- *Crotalaria lonchophylla* Hand. -Mazz.
- *Crotalaria pilosissima* Miq.
- *Crotalaria rufescens* Franch.

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. ferruginea* Benth.

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. ferruginea* Benth.

4. Distribution:

Global: Antarctica, Southern-Eastern Asia, Papua New Guinea.

India

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Not climbing, Herb. Habitat: Dry deciduous forests

8. Life Form: Annual and Perennial

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s): $x=7^{32}$

$x=8^7$

13. Zygotic chromosome number(s): $2n=16^{29, 33, 34, 35}$

$2n=42^2$

$2n=48^{7, 29, 32}$

14. Gametic chromosome number(s): $n=8^{2, 28}$

$n=21^{2, 17, 32, 37}$

$n=24^{32}$

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

Image file

16. Ploidy level: Diploid ³⁴

Hexaploid ^{2, 7, 17, 32, 36}

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo): Allopolyploid or segmental allopolyploid ^{2, 11}

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes: ^{7, 34}

Karyotype: Majority Submetacentric and Metacentric Chromosomes

Chromosome size: Small

NOR chromosome(s): 4-6

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: Bivalents, Hexavalent and Multivalent^{2,17, 37}

Female meiosis

Male meiosis

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):