

Species Datasheet
DBT- Network Programme

Datasheet No. A-140.047.019
(family.genus.species)

1.Taxon:

Species *Crotalaria burhia* Benth.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Crotalaria burhia* var. *tomentosa* Boiss.

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. burhia* 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. burhia* Benth.

4.Distribution:

Global: Afghanistan, India, Iran, Pakistan

India:

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat: Non-climbing, Herb/Shrub

8.Life Form: Perennial

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s): $x=8^{24, 25}$

13. Zygotic chromosome number(s): $2n=16^{13, 23, 25}$

14. Gametic chromosome number(s): $n=8^{23, 24}$

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

Image file

16.Ploidy level:Diploid^{13, 23, 24}

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:^{13, 23}

Karyotype:Majority submetacentric chromosomes

Chromosome size:Medium

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 II^{11, 23}

Female meiosis

Male meiosis^{11, 23}

Image file

27. Chromosome distribution at anaphase I: 8:8²³

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%²³