Species Datasheet

Datasheet No. A-140.047.109 **DBT- Network Programme**
(family.genus.species)

1.Taxon:

Species *Crotalaria quinquefolia* L.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Crotalaria heterophylla*L.f.

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. quinquefolia*L.

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: LeguminosaeJuss.
Subordo: PapilionaceaeGiseke
Genus: *Crotalaria* L.
Species: *C. quinquefolia*L.

4.Distribution:

Global: Antarctica, Antigua, Australia, Southern-Eastern Asia, Barbados, Cambodia, Cuba, Dominican Republic, Fiji, Guadeloupe, Guyana, Haiti, Jamaica, Laos, Martinique, Mauritius, Northern Mariana Islands, Papua New Guinea, Samoa.

India

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat: Non-climbing Habit: shrub.Habitat:The species is an annual herb which grows 40-80 cm in height. It is found in cultivated fields (Kothari 2000).The plant mainly grows in wet rice fields and moist places, up to 900m.Systems: Terrestrial and Freshwater

8.Life Form: Annual and 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, 3, 15, 16, 46, 86]

14. Gametic chromosome number(s):n=8[8]

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

Image file

16.Ploidy level: Diploid[1, 3, 15]

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, 15]

Karyotype: Majority Submetacentric and Metacentric chromosomes

Chromosome size: Small

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:

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;Translocationsetc):