

Final Species Datasheet (26/09/2016)

Datasheet No. A-140.047.061
(family.genus.species)

DBT- Networ

1. Taxon:

Species *Crotalaria laburnifolia*L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

- *Clavulium pedunculatum* (Desv.) Desv.
- *Crotalaria helenae* Buscal. & Muschl
- *Crotalaria pedunculosa* Desv
- *Crotalaria pendula* Bertero ex DC
- *Crotalaria laburnifolia* subsp. *laburnifolia*

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superrosids
- Clade: Rosids
- Clade: Fabids
- Order: Fabales
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Crotalaria* L.
- Species: *C. laburnifolia* 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. laburnifolia* L.

4. Distribution:

Global: Antarctica, Argentina, Australia, Africa, France, Indonesia, Spain, Bangladesh, India, Malaysia, Mauritius, Sri Lanka, Thailand.

India

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Non-climbing, Erect shrubby herb. Habitat: Along river banks and wastelands

8. Life Form: Perennial

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=16^1, 2, 13, 15, 29, 72, 73, 75$

14. Gametic chromosome number(s): $n=8^2, 6, 8, 13, 46, 74$

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

Image file

16. Ploidy level: Diploid^{2, 13, 15}

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: ^{1, 13, 15}

Karyotype: Majority Submetacentric and Metacentric chromosomes

Chromosome size: Medium, Large

NOR chromosome(s): 2

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, 73, 74}

Female meiosis

Male meiosis^{2, 74}

Image file

27. Chromosome distribution at anaphase I: 8:8²

28. Genetic diversity:

Chromosomal level

DNA level: ⁶⁹

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc):

Pollen stainability: 75-100%²