

Species Datasheet

Datasheet No. A-140.078.028
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cajanus scarabaeoides* (L.) Thouars
Subspecies
Variety
Cultivar
Hybrid

2. Synonyms:

- *Atylosiapauciflora* (Wight & Arn.) Druce
- *Atylosiascarabaeoides* (L.) Benth.
- *Atylosiascarabaeoides* var. *argyrophylla* Y.T. Wei & S.K. Lee
- *Cajanus scarabaeoides* var. *argyrophyllus* (Y.T. Wei & S.K. Lee) Y.T. Wei & S.K. Lee
- *Cantharospermumpauciflorum* Wight & Arn.
- *Cantharospermumscarabaeoides* (L.) Baill.
- *Dolichosmedicagineus* Roxb.
- *Dolichosminutus* Wight & Arn.
- *Dolichosscarabaeoides* L.
- *Rhynchosiabiflora* DC.
- *Rhynchosiascarabaeoides* (L.) DC.
- *Stizolobiumscarabaeoides* (L.) Spreng.

3. Systematic Position: APG IV; Bentham and Hooker:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Cajanus* DC
- Species: *Cajanus scarabaeoides* (L.) Thouars

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: *Cajanus* DC
Species: *Cajanus scarabaeoides* (L.) Thouars

4.Distribution:

Global: Sothern – Eastern Asia

India

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

6.ThreatStatus:

IUCN

BSI

7.Habit and Habitat:Trailing bush with slender soft hairy stems

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:It forms the Secondary gene pool.

11.DNA

C-valueMethodology

4C DNA = (7.47±0.06)pgFeulgen Microdensitometry¹

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):2n = 22^{1, 19}

14. Gametic chromosome number(s):n = 11^{4, 19}

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

16.Ploidy level:

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, 4}

Karyotype: Majority Metacentric and submetacentric

Chromosome size: Small

NOR chromosome(s): 2

Degree of asymmetry: Symmetrical

22. Banding pattern(s):

23. Physical mapping of chromosomes:

In situ hybridization

Fluorescent in situ hybridization

18S-5.8S-25S and 5S ribosomal gene families⁴⁵

24. Genomic in situ hybridization:

25. Linkage map:^{50,51}

26. Chromosome associations:

Female meiosis

Male meiosis

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level^{6, 9, 60, 66, 68, 76, 77, 81, 101}

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