Species Datasheet

Datasheet No. A-140.078.002
(family.genus.species)

DBT- Network Programme

1. **Taxon:**

Species : *Cajanusalbicans* (Wight &Arn.) Maesen
Variety
Cultivar
Hybrid

Image file

2. Synonyms:

Atylosiaalbicans (Wight &Arn.)Benth.
Cajanuswightii Wight &Arn.
Cantharospermumalbicans Wight &Arn.

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

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus: *Cajanus* DC
- Species:*Cajanusalbicans* (Wight &Arn.)Maesen

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: LeguminosaeJuss.
Subordo: PapilionaceaeGiseke
Genus: *Cajanus* DC
Species: *Cajanusalbicans* (Wight &Arn.) Maesen

4.Distribution:

Global: India, Sri Lanka

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

6.ThreatStatus:

IUCN

BSI

7.Habit and Habitat: Climbing: climbing Habit: herb.

8.Life Form:perennial

9.Economic Importance:

10. Probable Progenitor of: It forms the Secondary Gene Pool

11.DNA

C-valueMethodology

4C DNA –(5.14±0.04)pgFeulgen Microdensitometry[1]

1C DNA = 1.3 pg Feulgen Microdensitometry[2]

2C DNA = 2.6 pg Feulgen Microdensitometry[2]

4C DNA = 5.1 pg Feulgen Microdensitometry[2]

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):2n=22[1, 2, 3]

14. Gametic chromosome number(s):n=11[4]

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

16.Ploidy level:Diploid[2]

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]

Karyotype: MajoritySubmetacentric and metacentric

Chromosome size: Small

NOR chromosome(s): 2

Degree of asymmetry: Symmetrical karyotypes

22. Banding pattern(s):

23.Physical mapping of chromosomes:

In situ hybridization

Fluorescent in situ hybridization

24.Genomicin situ hybridization:

25. Linkage map:

26.Chromosome associations:

Female meiosis

Male meiosis

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level[1]

DNA level: RFLP, RAPD, ISSR, SRAP, SSR and AFLP-RGA[5, 6, 7, 8, 9]

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