

Species Datasheet

Datasheet No. A-140.078.024
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cajanus platycarpus* (Benth.) Maesen

Subspecies

Variety

Cultivar

Hybrid

2. Synonyms:

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 platycarpus* (Benth.)

Maesen

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 platycarpus* (Benth.) Maesen

4. Distribution:

Global:

India

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Creeper-climber, perennial

8. Life Form:

9. Economic Importance: Pod borer resistance

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

11.DNA

C-valueMethodology

4C nuclear DNA: (5.18±0.06)pgFeulgen Microdensitometry¹

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):2n = 22^{1, 19, 109, 110}

14. Gametic chromosome number(s):n = 11¹⁹

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

16.Ploidy level:Diploid^{60, 109, 110}

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:Majority Metacentric and Submetacentric

Chromosome size:Small

NOR chromosome(s): 4

Degree of asymmetry: Symmetrical

22. Banding pattern(s):

23.Physical mapping of chromosomes:

In situ hybridization

Fluorescent in situ hybridization

24.Genomic in situ hybridization:

25. Linkage map:

26.Chromosome associations:

Female meiosis

Male meiosis

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level¹⁰⁷

DNA level^{62, 76, 77, 78, 81, 101, 110}

29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis;

Pollen stainability; Translocation etc):