

Species Datasheet

Datasheet No. A-140.078.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cajanusacutifolius*(F. V. Muell) Maesen
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: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus: *Cajanus* DC
- Species:*Cajanusacutifolius*
(F. V. Muell) 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: *Cajanusacutifolius*(F. V. Muell) Maesen

4.Distribution:

Global: Australia
India: Andhra Pradesh

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

6.ThreatStatus:

IUCN

BSI

7.Habit and Habitat:Erect or spreading shrub

8.Life Form:

9.Economic Importance:

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

11.DNA

C-valueMethodology

4C DNA –(11.69±0.06)pgFeulgen Microdensitometry¹

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=22^1$

14. Gametic chromosome number(s):

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

Karyotype:MajorityMetacentric and Submetacentric

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.Genomic in 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, 56, 57}

DNA level: 5, 60, 62, 72, 76, 80, 107

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