Species Datasheet

Datasheet No. A-140.078.029 (family.genus.species) **DBT- Network Programme**

1.Taxon:

Species: *Cajanussericeus* (Baker) Maesen
Subspecies
Variety
Cultivar
Hybrid

Image file

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:*Cajanussericeus* (Baker) 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: *Cajanussericeus* (Baker) Maesen

4.Distribution:

Global:
India

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

6.ThreatStatus:

IUCN
BSI

7.Habit and Habitat:

8.Life Form:

9.Economic Importance: High protein content, Cytoplasmic male sterility, Sterility mosaic disease resistance, Phytophthora blight resistance.

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

11.DNA

C-valueMethodology

4C DNA = (5.77±0.05)pgFeulgenMicrodensitometry[1]

1C DNA = 1.4 pg Feulgen Microdensitometry[2]

2C DNA = 2.9 pg Feulgen Microdensitometry[2]

4C DNA = 5.8 pg Feulgen Microdensitometry[2]

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):2n = 22[1, 2,111]

14. Gametic chromosome number(s):n=11[112]

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: Majority Metacentric Chromosomes 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

24.Genomicin situ hybridization:

25. Linkage map:

26.Chromosome associations:
Female meiosis
Male meiosis
27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level[5, 8, 67, 68, 77, 81]

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