

Species Datasheet

Datasheet No. A-140.078.019
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cajanuslineatus* (Wight & Arn.) 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: *Cajanuslineatus*
(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: *Cajanuslineatus* (Wight & Arn.) Maesen

4. Distribution:

Global:

India

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat:

8. Life Form:

9. Economic Importance:

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

11. DNA

C-value Methodology

4C DNA – (7.34 ± 0.05) pg Feulgen Microdensitometry¹

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n = 22^{1, 97, 105, 106}$

14. Gametic chromosome number(s): $n = 11^{105}$

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

16. Ploidy level:

17. Agamete ploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes: 1, 106

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: RAPD, ISSR^{5, 31, 39, 81, 101, 108}

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