

Species Datasheet

Datasheet No. A-140.084.011
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cicerechinospermum* P.H. Davis
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:

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

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: *Cicer* L.
Species: *Cicerechinospermum* P.H. Davis

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Cicer* L.
- Species: *Cicerechinospermum* P.H. Davis

4. Distribution:

Global Iraq, Turkey

India Experimental stations

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat:

8. Life Form: Annual

9. Economic Importance:

10. Probable Progenitor of:

11. DNA:

C-value	Methodology
2C (2.7pg) ¹	Microdensitometer
4C (5.22pg) ⁴	Cytophotometry

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n = 16^{1,4,18,23} - 26,30,36,37$

14. Gametic chromosome number(s): $n = 8^{18}$

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

Image file

16. Ploidy level: Diploid^{1,4,18,23} - 26,30,36,37}

Image file

17. Agametoploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

21. Somatic chromosomes: 4,18,30,36,37

Karyotype Majority metacentric /submetacentric chromosomes

Chromosome size Small

NOR chromosome(s) 2

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s): C-banding, silver staining, Chromomycin A3, Hoechst 33258, DAPI^{4,37}

Image file

23. Physical mapping of chromosomes:

In situ hybridization: 18S - 5.8S - 26S and 5S ribosomal gene families⁴

Image file

Fluorescent in situ hybridization:

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis 8II¹⁸

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level³⁰

Image file

DNA level^{44,45,46,48,52,57,62,64,66,76,78,79,80,82,86,87,89,94,105,107,108}

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

Pollen stainability; Translocation etc.): Secondary gene pool of *C. arietinum*