

Species Datasheet

Datasheet No. A-140.085.030
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species
Subspecies: *Vicianarbonensis* L. subsp. *jordanica* H.I. Schaf.
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: *Vicia* L.
Species: *Vicianarbonensis* L.

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Vicia* L.
- Species: *Vicianarbonensis* L.

4. Distribution:

Global

India Experimental stations

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herbaceous, Erect

8. Life Form: Annual

9. Economic Importance: Marginal crop

10. Probable Progenitor of: *Vicia faba*^{94, 95, 96, 110}

11. DNA

C-value

Methodology

12. Basic chromosome number(s): $x=7^{100}$

13. Zygotic chromosome number(s): $2n=14^{9,100,101,109}$

14. Gametic chromosome number(s): $n=7^{100}$

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

Image file

16. Ploidy level: Diploid^{9,100,101,109}

Image file

17. Agametoploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes: 9,29,101,109

Karyotype

Majority submetacentric chromosomes

Chromosome size

Medium

NOR chromosome(s) 2

Degree of asymmetrySymmetrical

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:18S - 5.8S - 26S and 5S ribosomal gene families ¹⁰⁹

In situ hybridization

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 meiosis7II with occasional univalents¹⁰⁰

Image file

27. Chromosome distribution at anaphase I:7:7¹⁰⁰

28. Genetic diversity:

Chromosomal level¹⁰¹

Image file

DNA level^{29,44,49}

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