

Species Datasheet

Datasheet No. A-140.085.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Viciaamphicarpa*L.
Subspecies
Variety
Cultivar
Hybrid
Image file

2. Synonyms: *Vicia sativa*L. subsp. *amphicarpa* (Dorthes) Asch., *Viciaangustifolia*var. *amphicarpa* (L.) Alef , *Vicia sativa* var. *amphicarpa* (L.) Boiss.

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: LeguminosaeJuss.
Subordo: PapilionaceaeGiseke
Genus: *Vicia* L.
Species: *Viciaamphicarpa*L.

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus: *Vicia* L.
- Species: *Viciaamphicarpa*L.

4. Distribution:

Global Asia, Africa, Europe

India Experimental stations

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

6. Threat Status:

IUCN

BSI

7.Habit and Habitat:Herbaceous, Scrambling climber

8.Life Form:Annual

9.Economic Importance:Common Vetch

10. Probable Progenitor of:Close relative of common vetch, *V.sativa*^{123,124,126,130,131,136,149}

11.DNA

C-value **Methodology**

12.Basic chromosome number(s): $x=7^5$

13. Zygotic chromosome number(s): $2n=12^{109,123}$; $2n=14^{5,10,103,122,130}$

14. Gametic chromosome number(s): $n=7^{122}$

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

Image file

16.Ploidy level:Diploid^{5,10,103,109,122,123,130}

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:^{5,29,103,109,122,123}

Karyotype Majority metacentric /submetacentricchromosomes

Chromosome sizeMedium

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 ^{10,109}

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 meiosis ^{7 II¹²²}

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level ¹⁰³

Image file

DNA level ^{29,44,128,131}

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

Pollen stainability; Translocation etc.): Pollen stainability :92% ¹²²