

Species Datasheet

Datasheet No. A-140.085.040
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species
Subspecies
Variety: *Vicia sativa* L. con var. *sativa* var. *sativa*
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: *Vicia sativa* 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: *Vicia sativa* L.

4. Distribution:

Global

India

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

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:

11.DNA

C-value

Methodology

2C (4.50 pg)^{90, 91}

Microdensitometer

12.Basic chromosome number(s): $x = 6^{90, 91}$

13. Zygotic chromosome number(s): $2n = 12^{90, 91}$

14. Gametic chromosome number(s):

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

Image file

16.Ploidy level:Diploid^{90, 91}

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:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes: 18S - 5.8S - 26S and 5S ribosomal gene families²⁵

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

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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