

Species Datasheet

Datasheet No. A-140.085.014
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Viciagalilaea*Plitmann&Zohary
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: LeguminosaeJuss.
Subordo: PapilionaceaeGiseke
Genus: *Vicia* L.
Species: *Viciagalilaea*Plitmann&Zohary

APG IV (2016)

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

4. Distribution:

Global

IndiaExperimental stations

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:

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

11.DNA

C-value	Methodology
2C (16.51 pg) ⁹²	Microdensitometer
4C (26.09 pg) ^{3, 113}	Microdensitometer

12.Basic chromosome number(s): $x=7^{29}$

13. Zygotic chromosome number(s): $2n=14^{3,7,8,9,10,92,109,111,115,116}$

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

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

Image file

16.Ploidy level:Diploid^{3,7,8,9,10,92,109,111,115,116}

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:^{3,7,9,29,109}

Karyotype Majority submetacentric/metacentric chromosomes

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 meiosis⁷

Male meiosis⁷ II⁷

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level^{29,44,45,46,49,50,61}

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