

# Species Datasheet

Datasheet No. A-140.085.019  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species  
Subspecies: *Viciajohannis*Tamamsch. subsp. *johannis*  
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: *Viciajohannis*Tamamsch.

### APG IV (2016)

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

## 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:** Marginal crop

**10. Probable Progenitor of:** *Vicia faba*<sup>94,95,96,110</sup>

**11. DNA**

C-value                      Methodology

**12. Basic chromosome number(s):**

**13. Zygotic chromosome number(s):**  $2n = 14$ <sup>109</sup>

**14. Gametic chromosome number(s):**

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

Image file

**16. Ploidy level:** Diploid<sup>109</sup>

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:**<sup>109</sup>

Karyotype                      Majority submetacentric chromosomes

Chromosome size                      Medium

**NOR chromosome(s)**2

**Degree of asymmetry**Symmetrical

Image file

**22. Banding pattern(s):**

Image file

**23. Physical mapping of chromosomes:**18S - 5.8S - 26S and 5S ribosomal gene families <sup>109</sup>

**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**<sup>44, 49</sup>

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