

Species Datasheet

Datasheet No. A-140.085.005
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Viciabithynica* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Lathyrusbithynicus* L.

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: *Viciabithynica* 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: *Viciabithynica* L.

4. Distribution:

Global Asia, Africa, Europe

India

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:

10. Probable Progenitor of:

11.DNA

C-value

Methodology

2C(9.98pg)^{90,91}

Microdensitometer

4C(18.03 pg)^{3, 99}

Microdensitometer

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

13. Zygotic chromosome number(s): $2n=14^{3,8,9,10,19,90,104,109,117,118}$

14. Gametic chromosome number(s):

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

Image file

16.Ploidy level:Diploid^{3, 8,9,10, 19,90,104,109,117,118}

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:^{3,9,19,29,104,109,118}

Karyotype Majority subtelocentricchromosomes

Chromosome sizeMedium

NOR chromosome(s)2

Degree of asymmetryAsymmetrical

Image file

22. Banding pattern(s):C-banding ^{19,118}

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

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level^{29,44,50}

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