

Species Datasheet

Datasheet No. A-140.085.025
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Viciamonantha* Retz.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Viciabiflora* Desf. , *Viciacalcarata* Desf.

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: *Viciamonantha* Retz.

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Vicia* L.
- Species: *Viciamonantha* Retz.

4. Distribution:

Global Asia, Europe
India
-

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

6. Threat Status:

IUCN

BSI

7.Habit and Habitat:Herbaceous. Erect

8.Life Form:Annual

9.Economic Importance:Fodder

10. Probable Progenitor of:

11.DNA

C-value

Methodology

2C (3.85 pg)^{92,140}

Microdensitometer

12.Basic chromosome number(s): $x=7^5, 92, 140$

13. Zygotic chromosome number(s): $2n=14^5, 9, 92, 103, 104, 140$

14. Gametic chromosome number(s): $n=7^6$

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

Image file

16.Ploidy level:Diploid^{5, 9, 92, 103, 104, 140}

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, 9, 29, 103, 104}

Karyotype

Majority metacentric / submetacentric chromosomes

Chromosome size

Small

NOR chromosome(s) 2

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

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^{7,11,6}

Image file

27. Chromosome distribution at anaphase I:^{7,7,6}

28. Genetic diversity:

Chromosomal level

Image file

DNA level^{29, 44}

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

Pollen stainability; Translocation etc): Pollen stainability : 100%⁶