

Genus Datasheet

DBT- Network Programme

Datasheet No. A-140.071

(Family.Genus)

1. Genus: *Genista* L.

2. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Genista* L.

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: *Genista* L.

3. Species:

Global

India

4. Taxonomic riddles:

5. Distribution:

Global:

India

6. Habit and Habitat:

7. Economic Importance:

8. DNA content range: Methodology

1C DNA=1.50 pg

Flowcytometry⁷

2C DNA=3.00±0.03 pg Flowcytometry⁷

9. Basic chromosome number(s): x=13^{1,2}

10. Zygotic chromosome number(s): $2n=52^{1,2,3,4,5}$, $2n=54^6$, $2n=46^{8,9,12,13,14}$, $2n=48^{7,10,11,12}$,

11. Gametic chromosome number(s): $n=25,27^6$, $n=26^{1,4,6}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ Neocentric chromosomes): B chromosomes¹

13. Ploidy level: Tetraploid^{1,7,12}

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

16. Karyograms:¹

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes:

FISH:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:^{15,16,17,18}

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: