

Genus Datasheet

Datasheet No. A-140.081
(Family.Genus)

DBT- Network Programme

1. Genus: *Melilotus* Mill.

2. Systematic position: APG; Bentham and Hooker:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus: *Melilotus* Mill.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: LeguminosaeJuss.
Subordo: PapilionaceaeGiseke
Genus: *Melilotus* Mill.

3. Species:

Global

India

4. Taxonomic riddles:

5. Distribution:

Global

India

6. Habit and Habitat:

7. Economic Importance:

8. DNA content range:

2C DNA: 2.35 – 2.47 pg¹

Methodology

Flow cytometry¹

9. Basic chromosome number(s):_{x=} 8^{2,3,26,31}

10. Zygotic chromosome number(s): $2n = 16^{2-14, 19, 20, 21, 23, 24, 27-31, 33, 34, 35}$

$$2n = 18^{14}$$

11. Gametic chromosome number(s): $n = 8^{3, 4, 7, 15, 16, 20, 22, 23, 24, 26, 32}$

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

13. Ploidy level: Diploid $2n = 14, 19, 20, 21, 24, 26-31, 33, 34, 35$

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

16. Karyograms: $2n = 2, 14, 24, 31$

Meiosis: $2n = 24$

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at

Chromosomal level:

DNA level: $36, 37, 38, 39$

22. Any other information: