

Species Datasheet

Datasheet No. A-140.081.003
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Melilotus messanensis* (L.) All.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

- *Melilotus sicula* (Turra) B.D.Jacks.
- *Melilotus siculus* (Turra) B.D.Jacks.
- *Melilotussiculus* Vitman,
- *Sertulamessanensis* (All.) Kuntze,
- *Trifoliummessanense* L.

3. 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.
- Species: *Melilotus messanensis* (L.) All.

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.
Species: *Melilotusmessanensis* (L.) All.

4. Distribution:

Global:

India:

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Erect Herb, Desert

8. Life Form: Annual

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=16^{24}$

14. Gametic chromosome number(s): $n=8^{24}$

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

Image file

16. Ploidy level: Diploid²⁴

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: ²⁴

Karyotype:

Chromosome size:

NOR chromosome(s): 2

Degree of asymmetry

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 8×2^4

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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