

Species Datasheet

Datasheet No. A-140.081.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

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

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms:

- *Melilotusindica* (L.) All.,
- *Melilotusparviflorus* Desf.,
- [*Melilotus parviflora* Desf.](#)
- *Sertulaindica* (L.) Kuntze,
- [*Trifolium indica* L.](#)
- *Trifoliumindicum* L.,
- *Trifoliummelilotus* L.,
- *Trifoliummelilotus* var. *indicum* L.
- [*Melilotus bonplandii* Ten.](#)
- [*Melilotus indicus* subsp. *permixtus* \(Jord.\) Rouy](#)
- [*Melilotus melilotus-indica* Asch. &Graebn.](#)
- [*Melilotus melilotus-indicus* Asch. &Graebn.](#)
- [*Melilotus officinalis* sensuBojer](#)
- [*Melilotus permixtus* Jord.](#)
- [*Melilotus tommasinii* Jord.](#)
- [*Trifolium melilotusindicus* L.](#)
- [*Trifolium melilotus-indica* 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 indicus* (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: *Melilotus indicus* (L.) All.

4. Distribution:

Global: Americas,Afghanistan, Pakistan, India, China.

India:

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat:Herb

8.Life Form:Biennial or Annual

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value:Methodology:

12.Basic chromosome number(s): $x=8^3$

13. Zygotic chromosome number(s): $2n=16^{3,19,20,21,23,24}$

$2n=18^{14}$

14. Gametic chromosome number(s): $n=8^{3,4,20,22,23,24}$

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

Image file

16.Ploidy level:Diploid^{3,4,19,20,21,24}

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: Majority sub-metacentric

Chromosome size: long/medium/short

NOR chromosome(s): 4

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 ^{8 II²⁴}

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level:

DNA level: ^{18, 25}

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