

Genus Datasheet

Datasheet No. A-140.094
(Family.Genus)

DBT- Network Programme

1. Genus: *Lupinus* L.

2. Systematic position: APG IV; Bentham and Hooker:

APG IV (2016)

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

Bentham and Hooker (1862)

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

3. Species:

Global: ~200

India

4. Taxonomic riddles:

5. Distribution:

Global Europe, Asia, Africa

India

6. Habit and Habitat: Erect. Herbaceous

7. Economic Importance: Human food. Green manure, Forage

8. DNA content range:

Methodology

2C (1.16-2.44pg)^{1,12}Flow Cytometry

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): 2n=38,42,44³, 2n=40^{1,12-15}, 2n=48^{7, 22, 26 -28}, 2n= 50¹⁻⁶,

2n=52^{1,14,21}, 2n=52,104²³

11. Gametic chromosome number(s): $n=20$ ^{16,17}, $n=24$ ^{7, 24, 25}

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

13. Ploidy level:

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

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

16. Karyograms:¹⁵ **Meiosis:**^{7,16,17,24, 25}

17. Banding pattern(s):

18. Physical mapping of chromosomes: 18S-25S rDNA², 18S-25S rDNA and 5S rDNA^{12,14,21},

BAC FISH^{13,15}

GISH:

19. Phylogenetic relationship at:

Chromosomal level

DNA level^{29,30}

22. Any other information:Chromosome number not reported in the following taxa:

Lupinus hirsutus L.