

Species Datasheet

Datasheet No. A-140.094.002
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species *Lupinus angustifolius* L.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:

3.Systematic Position: APG IV; Bentham and Hooker:

APG IV (2016)

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

4.Distribution:

Global Europe, Asia, Africa

India

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat:Erect. Herbaceous

8.Life Form:Annual

9.Economic Importance:Human food

10. Probable Progenitor of:

11.DNA

C-valueMethodology

2C(1.89pg) ¹Flow Cytometry

2C(2.07 pg) ¹²Flow Cytometry

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=38,42,44^3$, $2n=40^{1,12-15}$

14. Gametic chromosome number(s): $n=20^{16,17}$

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

Image file

16. Ploidy level:

Image file

17. Agametoploidy:

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

19. Genomic formula:

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

21. Somatic chromosomes:¹⁵

Karyotype Metacentric/submetacentric chromosomes

Chromosome size

NOR chromosome(s)

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: 18S-25S rDNA and 5S rDNA^{12,14}, BAC FISH^{13,15}

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:^{18,19}

Image file

26. Chromosome associations:

Female meiosis

Male meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level^{10,11,20}

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