

Species Datasheet

Datasheet No. A-073.002.018
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Allium humile* Kunth

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Allium govanianum* Wall. ex Baker, *A. nivale* Jacquem. ex Regel, *A. nivale* Jacquem ex Hook.f. & Thomson

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Amaryllidaceae J. St.-Hil.
- Subfamily: Allioideae Herb.
- Genus: *Allium* L.
- Species: *A. humile* Kunth

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Liliaceae Juss.
Genus: *Allium* L.
Species: *A. humile* Kunth

4. Distribution:

Global: China, India, Pakistan

India: Himachal Pradesh, Jammu and Kashmir, Uttarakhand

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

6. Threat Status:

IUCN: Not been assessed yet

BSI:

7. Habit and Habitat: Herbaceous, height~ 8-30 cm; Temperate, between 2740 m – 4000 m altitude on open hillsides or shady grass slopes, gregarious

8. Life Form: Bulbous geophyte.

9. Economic Importance: Condiment, leaves used for flavouring curry

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s): $x=8^5$

13. Zygotic chromosome number(s): $2n=16^{6,9,10,13,14}$

14. Gametic chromosome number(s): $n=8^{5,47}$

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

Image file

16. Ploidy level: Diploid ^{5,6}

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:

Karyotype Majority metacentric chromosomes ⁶

Chromosome size Large ⁶

NOR chromosome(s)

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 II ⁵

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; Translocations etc): Pollen stainability (%): 98% ⁵