

# Species Datasheet

Datasheet No. A-073.002.013  
(family.genus.species)

DBT- Network Programme

-

## 1. Taxon:

Species *Allium fasciculatum* Rendle

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Allium gageanum* W.W.Sm

## 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. fasciculatum* Rendle

### Bentham and Hooker (1862)

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

## 4. Distribution:

**Global:** Bhutan, China, India, Nepal, Tibet

**India:** Nagaland, Sikkim,

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

## 6. Threat Status:

**IUCN:** Least Concern

**BSI:**

**7. Habit and Habitat:** Herbaceous, height~ 10-35 cm; Dry slopes, meadows, sandy places; 2200 m - 5400 m.

**8. Life Form:** Bulbous geophyte

**9. Economic Importance:** Vegetables

**10. Probable Progenitor of:**

**11. DNA**

**C- value**

**Methodology**

**12. Basic chromosome number(s):**  $x=10^{198}$

**13. Zygotic chromosome number(s):**  $2n=20^{198,199}$

$$2n=40^{12}$$

**14. Gametic chromosome number(s):**

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

Image file

**16. Ploidy level:** Diploid<sup>198</sup>, Tetraploid<sup>12</sup>

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 sub-telocentric and sub-metacentric chromosomes<sup>12</sup>

Majority sub-metacentric chromosomes<sup>198</sup>

**Chromosome size** Medium to very large<sup>12</sup>

**NOR chromosome(s)** 2 NOR<sup>198</sup>, 4 NOR<sup>12</sup>

**Degree of asymmetry:** Asymmetrical<sup>12</sup>

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**

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):**