

# Species Datasheet

Datasheet No. A-073.002.003  
(family.genus.species)

DBT- Network Programme

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## 1. Taxon:

Species *Allium atrosanguineum* Schrenk

Subspecies

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Allium atrosanguineum* var. *atrosanguineum*, *A. monadelphum* Less. ex Kunth, *A. monadelphum* var. *atrosanguineum* (Schrenk) Regel, *A. monadelphum* var. *stenophyllum* Regel

## 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. atrosanguineum* Schrenk

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Coronarieae  
Family: Liliaceae Juss.  
Genus: *Allium* L.  
Species: *A. atrosanguineum* Schrenk

## 4. Distribution:

**Global:** China North-Central, China South-Central, Chita Krasnoyarsk Tuva, Kirgizistan, Middle Asia, Kazakhstan, Mongolia, Qinghai Tibet, Xinjiang, Siberia Buryatiya, Tadzhikistan, Uzbekistan, Western Asia Afghanistan Indian Subcontinent Pakistan West Himalaya

**India:** West Himalaya, Jammu and Kashmir

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

## 6. Threat Status:

**IUCN:** Not been assessed yet

**BSI:**

**7. Habit and Habitat:** Herbaceous, height ~12-30 cm; Temperate, swamp alpine pasture slopes from 3690 m to 4200 m

**8. Life Form:** Bulbous geophyte

**9. Economic Importance:**

**10. Probable Progenitor of:**

**11. DNA**

**C- value**

**Methodology**

**12. Basic chromosome number(s):**  $x=8^{103}$

**13. Zygotic chromosome number(s):**  $2n=16^{8,103,104,105,106}$

$2n=32^{107}$

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

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

Image file

**16. Ploidy level:** Diploid<sup>103</sup>

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:**

**Karyotype** Majority metacentric chromosomes<sup>103</sup>

**Chromosome size**

**NOR chromosome(s)** 2 NOR<sup>103</sup>

**Degree of asymmetry:** Asymmetrical<sup>103</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):**