

Species Datasheet

Datasheet No. A-073.002.014
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Allium fedschenkoanum* Regel.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Allium atrosanguineum* var. *fedschenkoanum* (Regel.) G.H. Zhu & Turland.

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. fedschenkoanum* Regel.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Afghanistan, Central Asia, China, India, Pakistan,

India: Himachal Pradesh, Jammu and Kashmir, Uttarakhand

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

6. Threat Status:

IUCN: Not been assessed yet

BSI:

7. **Habit and Habitat:** Herbaceous, height~ 18-40 cm; Temperate

8. Life Form: Perennial, bulbous geophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value

Methodology

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

13. Zygotic chromosome number(s): $2n=16^{6,45,110}$

14. Gametic chromosome number(s): $n=8^5$

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, aneusomaty, polysomaty):

21. Somatic chromosomes:

Karyotype Majority metacentric chromosomes⁶

Chromosome size Medium⁶

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 II⁵

Image file

27. Chromosome distribution at anaphase I: Normal ⁵

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 (%): 100% ⁵