

Final Species Datasheet

Datasheet No. G-006.001.001
(family.genus.species)

1.Taxon:

Species: *Ephedra altissima* Desf.
Subspecies:
Variety:
Cultivar:
Hybrid:

Image file:

2. **Synonyms:** *Chaetocladius altissima* (Desf.) J.Nelson, *Ephedra wettsteinii* Buxb.

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Gnetidae Pax
- Order: Ephedrales Dumort.
- Family: Ephedraceae Dumort.
- Genus: *Ephedra* L.
- Species: *E. altissima* Desf.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Gnetaceae Blume
Genus: *Ephedra* L.
Species: *E. altissima* Desf.

4.Distribution:

Global: North Africa in Algeria, Libya, Morocco, Tunisia

India:

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

6.Threat Status:

IUCN: Least concern

BSI:

7.**Habit and Habitat:** Shrubs; A shrub often found on rocky calcareous slopes.

8.**Life Form:** Phanerophytes

9.**Economic Importance:** Stem contains ephedrine, the ripe female cone is eaten by animals.

10. Probable Progenitor of:

11.DNA

C-valueMethodology

12.Basic chromosome number(s): $x=14^{1, 6, 7, 12, 13}$

13. Zygotic chromosome number(s): $2n=28^{1, 6, 12, 13}$

14. Gametic chromosome number(s): $n=14$ (pollen mitosis)¹³

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

Image file

16.Ploidy level:Diploid ^{1, 6, 12, 13}

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: ^{1, 13}

Karyotype :Median and subterminal chromosomes ^{1, 13}

Chromosome size Large ^{1, 13}

NOR chromosome(s)

Degree of asymmetry Asymmetrical ^{1, 13}

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; Translocation etc):