

Genus Datasheet

DBT-

Datasheet No. G-006.001
Network Programme
(Family.Genus)

Kingham: Alan Hooker
(1862)
Phylum: Phanerogamia
Class: Gymnospermeae
Ordo: Gnetaceae Blume
Genus: *Ephedra* L.

1. Genus: *Ephedra* L.

3. Systematic Position:

Christenhusz et al. (2011)

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

3. Species:

Global: 70

India: 10

4. Taxonomic riddles:

5. Distribution:

Global: Grow in dry climate over wide areas of the Northern hemisphere including North America, Europe, North Africa, and South west and central Asia

India: Distributed in dry parts of Punjab, Haryana, Rajasthan and parts of Kashmir to Sikkim.

6. Habit and Habitat: Shrub, found in arid areas and highlands, occurring on slopes, dry river beds, sandy places, or fields on mountain sides

7. Economic Importance: Stem contains ephedrine, Medicinal, ornamental, also used as fuel.

8. DNA content range:

2C (17.75-31.88 pg)^{10, 15}

Methodology

Feulgen microdensitometry^{10,15}

9. Basic chromosome number(s): $x=7$ ^{1, 2, 6, 7, 10, 12, 13, 14, 15, 17}

10. Zygotic chromosome number(s): $2n=14$ ^{1, 2, 7, 12, 13, 14, 15, 17}, 28 ^{1, 6, 10, 12, 13, 17, 18}

1. Gametic chromosome number(s): $n=7$ ^{13,14}, 14 ^{12,13}

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/Neocentric chromosomes):

13. Ploidy level:Diploid^{1, 2, 13, 15, 17}, Tetraploid^{1, 6, 10, 12, 13, 17, 18}

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

16. Karyograms: ^{1, 2, 10, 12, 13, 14, 15}

Meiosis:¹⁴

17. Banding pattern(s):

19. Phylogenetic relationship at Chromosomal; DNA level: 3, 5, 8, 9, 11, 14, 16

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: