

Genus Datasheet

Datasheet No. G-007.002

(Family.Genus)

DBT- Network Programme

1. Genus: *Cedrus* Trew

2. Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Pinales Gorozh.
- Family: Pinaceae Spreng.
- Genus: *Cedrus* Trew

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Abietineae Eichler

Genus: *Cedrus* Trew

3. Species:

Global: Mountains of the South and South East Mediterranean and the West Himalayas

India: Arunachal Pradesh, Himachal Pradesh, Jammu and Kashmir, Meghalaya, West Bengal, Uttarakhand

4. Taxonomic riddles:^{1, 7}

5. Distribution:

Global: 3

India: 1

6. Habit and Habitat: Evergreen, tall 30-40 m, adapted to mountainous climates in the Mediterranean, they receive winter precipitation, mainly as snow, and summer drought, while in the western Himalaya, they receive primarily summer monsoon rainfall

7. Economic Importance: This is one of the sacred trees of India, wood is highly valuable, Cedar wood and cedar oil are known to be a natural repellent to moths, also used as an ornamentals

8. DNA content range:

Methodology

2C (32.60 pg)¹

Flow cytometry¹

9. Basic chromosome number(s): $x=12$ ^{1, 2, 3, 4, 5, 6}

10. Zygotic chromosome number(s): $2n=24$ ^{1, 2, 4}

1. Gametic chromosome number(s): $n=12$ ^{5, 6}

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

13. Ploidy level:Diploid ^{1, 2, 4, 5, 6}

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

16. Karyograms: ^{1, 2}

Meiosis:

17. Banding pattern(s):¹

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:^{1, 7}

22. Any other information: