

Species Datasheet

Datasheet No. G-011.006.003
(family.genus.species)

1. Taxon:

Species: *Cupressus funebris* Endl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. **Synonyms:** *Chamaecyparis funebris* (Endl.) Franco, *Cupressus funebris* var. *gracilis* Carriere, *C. pendula* Abel, *Juniperus quaternata* Miq., *Platycyparis funebris* (Endl.) A.V. Bobrov & Melikyan

3. Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Cupressus* L.
- Species: *Cupressus funebris* Endl.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Cupressineae
Genus: *Cupressus* L.
Species: *Cupressus funebris* Endl.

4. Distribution:

Global: Native of central China

India: Bhutan, Nepal, Sikkim, Tamil Nadu, East Himalayas

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

6. Threat Status:

IUCN: Least concern

BSI:

7. **Habit and Habitat:** Evergreen tree (20-35 m tall), well drained soils can grow in nutritionally poor soils, this species is found in mixed mountain forest or woodland.

8.LifeForm:Phanerophytes

9.Economic Importance:This species is widely planted in China as an ornamental, it is especially common in Buddhist temple grounds. Its wood is also considered valuable due to its durability and traditionally it was used for coffins for this reason.

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10. Probable Progenitor of:

11.DNA

C-value

Methodology

2C (21.51pg)⁴

Flow cytometry⁴

12.Basic chromosome number(s): $x=11$ ^{5, 6, 7, 8}

13. Zygotic chromosome number(s): $2n=22$ ⁶

14. Gametic chromosome number(s): $n=11$ ⁷

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

Image file

16.Ploidy level:Diploid^{6, 7, 8}

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:⁸

Karyotype Median and submedian one pair subterminal⁸

Chromosome size Large⁸

NOR chromosome(s) 2⁸

Degree of asymmetry Symmetrical⁸

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 11 II⁷

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.):