

Species Datasheet

Datasheet No. G-012.001.003
(family.genus.species)

1.Taxon:

Species: *Cephalotaxus mannii* Hook.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Cephalotaxus griffithii* Hook.f., *C. harringtonii* var. *thailandensis* Silba, *C. mannii* subsp. *thailandensis* (Silba) Silba,

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Gnetidae Pax
- Order: Cupressales Link
- Family: Taxaceae Gray
- Genus: *Cephalotaxus*
- Species: *C. mannii* Hook. f.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Taxeae Rich. ex Duby
Genus: *Cephalotaxus*
Species: *C. mannii* Hook. f.

4.Distribution:

Global: China (Guangdong, Guangxi, Tibet [or Xizang], Yunnan), Bhutan, India, Lao People's Democratic Republic, Myanmar, Thailand, Viet Nam

India: Arunachal Pradesh, Assam, Bhutan, Manipur, Meghalaya, Mizoram, Myanmar, Nagaland, Uttarakhand, West Bengal

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

6.Threat Status:

IUCN: Vulnerable

BSI:

7.Habit and Habitat: Evergreen tree (30 m tall), 500-2000 m a.s.l, occurs in mixed evergreen or deciduous forests

8.LifeForm:Phanerophytes

9.Economic Importance:This conifer produces high quality insect resistant timber which is used for quality furniture, fine crafts and tool handles. The seeds and bark have medicinal uses in the treatment of leukaemia and lymphoma. The species is eminently suitable for use in horticulture

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=12^{2, 3}$

13. Zygotic chromosome number(s): $2n=24^1$

14. Gametic chromosome number(s): $n=12$ (endosperm mitosis, meiosis)³

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

Image file

16.Ploidy level:Diploid^{1, 3}

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:³

KaryotypeMedian and submedian³

Chromosome sizeLarge³

NOR chromosome(s)1³ (endosperm mitosis)

Degree of asymmetrySymmetrical³

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.):