

Species Datasheet

Datasheet No. G-011.003.003
(family.genus.species)

1.Taxon:

Species: *Chamaecyparispisifera* (Siebold&Zucc.) Endl.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Chamaecyparis filifera* Veitch ex Senecl., *C. leptoclada* (Endl.) Henkel & W. Hochst., *C. obtusa* var. *plumosa* Carriere, *C. pisifera* f. *aurea* (Gordon) Rehder, *C. pisifera* f. *aurea-nana* Beissn., *C. pisifera* var. *filicoides* Regel, *C. pisifera* var. *filifera* (Veitch ex Sénécl.) Hartw. & Rümpler, *C. pisifera* f. *filifera* (Veitch ex Sénécl.) Voss, *C. pisifera* f. *filifera-aurea* Beissn., *C. pisifera* f. *filifera-aureovariegata* Beissn., *C. pisifera* var. *filifera-pendula* Nash, *C. pisifera* var. *filiformis* (R.Sm.) Beissn., *C. pisifera* f. *leptoclada* (Endl.) Rehder, *C. pisifera* f. *minima* Hornibr., *C. pisifera* var. *plumosa* (Carriere) Ed. Otto, *C. pisifera* var. *pendula* (Mast.) Zederb., *C. pisifera* f. *plumosa* (Carriere) Beissn., *C. pisifera* f. *squarrosa* (Siebold & Zucc.) Beissn. & Hochst., *C. pisifera* f. *standishii* Beissn., *C. pisifera* f. *sulphurea* (A.H. Kent) Rehder, *C. plumosa* (Carriere) Senecl., *C. plumosa* var. *argentea* Sénécl., *C. squarrosa* (Siebold & Zucc.) Endl., *C. squarrosa* var. *leptoclada* Endl., *C. squarrosa* var. *sulphurea* G. Nicholson, *Cupressus leptoclada* (Endl.) Lavalée, *C. obtusa* var. *plumosa-argentea* Lavallée, *C. obtusa* var. *plumosa-aurea* Lavalée, *C. pisifera* (Siebold & Zucc.) F. Muell., *C. pisifera* var. *filifera* (Veitch ex Senecl.) Lavallée, *C. pisifera* f. *pendula* Mast., *C. pisifera* var. *plumosa* (Carriere) Lavalée, *C. pisifera* var. *plumosa* (Carriere) Geerinck, *C. pisifera* var. *sulphurea* A.H. Kent, *C. squarrosa* (Siebold & Zucc.) Ravenscr., *C. squarrosa* Lawson ex Gordon, *Retinispora aurea* (Gordon) de Vos, *R. filifera* (Veitch ex Senecl.) Fowler, *R. leptoclada* (Endl.) Zucc. ex Gordon, *R. pisifera* Siebold & Zucc., *R. pisifera* var. *aurea* Gordon, *R. pisifera* var. *filiformis* R.Sm., *R. plumosa* (Carriere) Gordon, *R. plumosa* var. *aurea* R.Sm., *R. squarrosa* Siebold & Zucc., *R. stricta* Gordon, *Thuja pisifera* (Siebold & Zucc.) Mast., *T. pisifera* var. *filifera* (Veitch ex Senecl.) Mast.

3. Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Gnetidae Pax
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Chamaecyparis* Spach
- Species: *C. pisifera* (Siebold & Zucc.) Endl.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Cupressineae

4.Distribution:

Global:Native to central and southern Japan on the islands of Honshu

India:

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

6.Threat Status:

IUCN:Least concern

BSI:

7.Habit and Habitat:Evergreen tree (35-40 m tall), Prefers moist well drained soils in full sun to part shade, in the humid temperate zone

8.Life Form:Phanerophytes

9.EconomicImportance:Timber, ornamental, this species is limited as a source of timber, but widely cultivated as an ornamental, with many named cultivars.

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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2C (22.11pg)	⁷ Feulgenmicrodensitometry ⁷
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2C (18.50 pg) ⁹	Flow cytometry ⁹
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12.Basic chromosome number(s): $x=11$ 1, 3, 4, 5, 6, 10, 14

13. Zygotic chromosome number(s): $2n=22$ ^{4, 5, 6, 10}

14. Gametic chromosome number(s): $n=11$ ^{1, 6, 14}

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

Image file

16.Ploidy level:Diploid^{1, 4, 5, 6, 10, 14}

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:^{4, 10}

KaryotypeMedian and submedian^{4, 10}

Chromosome sizeLarge^{4,10}

NOR chromosome(s)2¹⁰

Degree of asymmetrySymmetrical^{4, 10}

Image file

22. Banding pattern(s):CMA+ bands ¹⁰

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 II^{1, 6, 14}

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.):