Species Datasheet

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Datasheet No. G-011.006.008
(family.genus.species)

1.Taxon:

Species: *Cupressussempervirens*L.
Subspecies:
Variety:
Cultivar:
Hybrid:

Image file

2. Synonyms:*Chamaecyparis thujiformis* R.Sm. ex Gordon, *Cupressus conoidea* Spadoni, *C. elongata* Salisb., *C. expansa* Targ.Tozz.exSteud., *C. fastigiata* DC., *C. foemina* Garsault, *C. globulifera* Parl., *C. horizontalis* Mill., *C. horizontalis* (Mill.) Voss, *C. horizontalis* var. *pendula* Endl., *C. lugubris* Salisb., *C. mariae* Sennen, *C. mas* Garsault, *C. orientalis* Beissn., *C. patula* Pers., *C. pyramidalis* O.Targ.Tozz., *C. roylei* Carriere, *C. sempervirens* var. *globulifera* Parl., *C. sempervirens* var. *horizontalis* (Mill.) Loudon, *C. sempervirens* subsp. *horizontalis* (Mill.)A.Camus, *C. sempervirens* f. *horizontalis* (Mill.) Voss, *C. sempervirens* f. *numidica* Trab.,*C. sempervirens* var. *pendula* (Endl.) A.Camus, *C. sempervirens* var. *pyramidalis*(O.Targ.Tozz.) Nyman, *C. sempervirens* var. *sphaerocarps* (Parl.) Parl., *C. sempervirens* var. *stricta* Aiton, *C. sempervirens* f. *stricta* (Aiton) Rehder, *C. sempervirens* var. *umbilicata* (Parl.) Parl., *C. sphaerocarpa* Parl., *C. stricta* Mill. ex Gordon, *C. thujifolia* Knight ex Gordon, *C. thujiformis* Parker ex Gordon, *C. thujioides* H.Low ex Gordon, *C. tournefortii* Audib. exCarriere, *C. umbilicata* Parl., *Juniperus whitleyana* Miq.

3. Systematic Position:

Christenhusz*et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: PinidaeCronquist
- Order: Cupressales Link
- Family:Cupressaceae Gray
- Genus: *Cupressus*L.
- Species: *C. sempervirens*L.

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Cupressineae
Genus: *Cupressus*L.
Species: *C. sempervirens*L.

4.Distribution:

Global: Native of West Asia, eastern Mediterranean region

India:

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat: Evergreen tree up to 35 m tall, dry Mediterranean type climate, grows in pine or juniper woodland associated with *Pinusbrutia, Juniperusexcelsa, J. foetidissima, J. drupacea, J. phoenicea, Quercus*spp.,*Pistaciaatlantica, Amygdalusscoparia,* and*Poteriumspinosum*; in rocky soil mostly over limestone on slopes and in gorges, occasionally igneous rock. In its natural habitat occurs from 90 m to 1700 m a.s.l.

8.Life Form: Phanerophytes

9.Economic Importance: First, its wood was valued for its resistance to decay, later it also became an ornamental.

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (22.74 pg)[9]	Feulgenmicrodensitometry[9]
2C (22.80 pg)[11]	Flow cytometry[11]

12.Basic chromosome number(s):x=11[1, 2, 5, 7]

13. Zygotic chromosome number(s):2n=22[1, 2, 8, 10]

14. Gametic chromosome number(s):n=11[8]

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

Image file

16.Ploidy level: Diploid[1, 2, 5, 7, 8, 10]

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:[2, 8]

KaryotypeMedian and submedian[2, 8]

Chromosome size Large[2, 8]

NOR chromosome(s)6[2, 8]

Degree of asymmetry Symmetrical[2, 8]

Image file

22. Banding pattern(s):CMA+, DAPI+ bands[2]

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 meiosis11II[7]

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;Translocationsetc.):