

Species Datasheet

Datasheet No. G-011.007.002
(Family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Juniperuschinensis* L.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Juniperusbarbadensis* Thunb., *J. cabiancae* Vis., *J.cernua* Roxb., *J.chinensis* f. *aurea* (M.Young) Beissn., *J.chinensis* var. *aurea* M.Young, *J.chinensis* f. *aurea* Hornibr., *J.chinensis* f. *aureapendula* Beissn., *Juniperuschinensis* var. *aureoglobosa* Rehder, *J.chinensis* f. *aureoglobosa* (Rehder) Rehder, *J.chinensis* var. *chinensis*, *J.chinensis* var. *foemina* Lavalley, *J.chinensis* var. *gaussenii* (W.C.Cheng) Silba, *J.chinensis* f. *globosa* (Hornibr.) Rehder, *J.chinensis* var. *globosa* Hornibr., *J.chinensis* var. *keteleeri* Beissn., *J.chinensis* var. *leeana* Lavalley, *J.chinensis* var. *mas* Gordon, *J.chinensis* f. *mas* (Gordon) Rehder, *J.chinensis* var. *mascula* Lavalley, *J.chinensis* var. *pendula* Franch., *J.chinensis* f. *pendula* (Franch.) Beissn., *J.chinensis* var. *plumosa* Hornibr., *J.chinensis* f. *plumosa* (Hornibr.) Rehder, *J.chinensis* f. *pyramidalis* (Carriere) Beissn., *J.chinensis* var. *smithii* Loudon, *J.chinensis* var. *variegata* Maxwell, *J.chinensis* f. *variegata* (Maxwell) Rehder, *J.dimorpha* Roxb., *J.flagelliformis* Loudon, *J.fortunei* Carriere, *J.gaussenii* W.C.Cheng, *J.jacobii* Beissn., *J.japonica* var. *pyramidalis* Carriere, *J.keteleeri* (Beissn.) Prop.- Giesel, *J.reevesiana* Endl., *J.shepherdii* Beissn., *J.sheppardii* (H.J.Veitch) Melle, *J.sinensis* J.F.Gmel., *J.sphaerica* Lindl., *J.sphaerica* var. *pendula* (Franch.) Melle, *J.sphaerica* var. *sheppardii* H.J.Veitch, *J.struthiacea* Knight, *J.thunbergii* Hook.&Arn., *J.virginica* Thunb., *Sabina cabiancae* (Vis.) Antoine, *S.chinensis* (L.) Antoine, *S. chinensis* f. *aurea* (Beissn.) W.C.Cheng & W.T.Wang, *S. chinensis* f. *aureoglobosa* W.C.Cheng & W.T.Wang, *S. chinensis* var. *kaizuca* W.C.Cheng & W.T.Wang, *S. chinensis* f. *pendula* (Franch.) W.C.Cheng & W.T.Wang, *S. chinensis* f. *pyramidalis* (Carrière) W.C.Cheng & W.T.Wang, *S.dimorpha* (Roxb.) Antoine, *S. gaussenii* (W.C. Cheng) W.C. Cheng & W.T. Wang, *S. sphaerica* (Lindl.) Antoine, *S. struthiacea* (Knight) Antoine

3. Systematic Position:

Christenhusz et al. (2011)

Class: Equisetopsida C. Agardh

Subclass: Pinidae Cronquist

Order: Cupressales Link

Family: Cupressaceae Gray

Genus: *Juniperus* L.

Species: *J.chinensis* L.

Bentham and Hooker (1862)

Kingdom: Plantae

Division:Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus:Cupressineae
Genus: *Juniperus*L.
Species: *J. chinensis*L.

4.Distribution:

Global:This species occurs in Myanmar [Burma], China, Japan, the Korean peninsula, Russian Far East, and Taiwan

India:Planted

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

6.Threat Status:

IUCN:Least Concern

BSI:

7.Habit and Habitat:shrub or tree with a very variable shape, 1–20 m. The altitudinal range is (100-)1,400-2,400(-2,700) m a.s.l. Widespread planting and subsequent establishment in areas where it was not originally native have made it difficult to establish its original habitat and types of vegetation.

8.Life Form:Phanerophytes

9.Economic Importance:*J. chinensis* is one of the two most commonly planted cupressaceous trees in traditional Chinese gardens, such as around temples, its wood is highly valued for furniture making and joinery and is hard and durable.

10. Probable Progenitor of:

11.DNA

C-value Methodology

2C (48.80 pg) 26 flow cytometry²⁶

2C (48.20 pg) 26 flow cytometry²⁶

2C (50.20 pg) 26 flow cytometry²⁶

12.Basic chromosome number(s): $x=115, 6, 7, 17$

13. Zygotic chromosome number(s): $2n=224, 5, 6, 17,$

335, 6,

44 5, 6

14. Gametic chromosome number(s): $n=2230$

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

Image file

16.Ploidylevel:Diploid5, 6, 17,
Triploid5, 6,
Tetraploid5, 6, 30
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:17
KaryotypeMedian and submedian17
Chromosome sizeLarge17
NOR chromosome(s)217
Degree of asymmetrySymmetrical17
Image file

22. Banding pattern(s):
Image file

23.Physical mapping of chromosomes:
In situ hybridization
Image file
Fluorescent in situ hybridization:5S rDNA, 18S rDNA17
Image file

24.Genomic in situ hybridization:
Image file

25. Linkage map:
Image file

26.Chromosome associations:
Female meiosis
Male meiosis22II 30
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.):