Species Datasheet

Datasheet No. G-011.003.002 DBT- Network Programme
(Family.genus.species)

1.Taxon:
Species: *Chamaecyparisobtusa* (Siebold&Zucc.) Endl.
Subspecies:
Variety:
Cultivar:
Hybrid:
Image file

2. Synonyms:*Chamaecyparisacuta* Beissn., *C. andelyensis* Gordon, *C. breviramea* Maxim., *C. keteleri* Standish ex Parl., *C. lycopodioides* (Gordon) Senecl.*C. obtusa* f. *alba-spica* (R.Sm.) Beissn., *C. obtusa* f. *aurea* (Fortune ex Gordon) Rehder, *C. obtusa* f. *barronii* Rehder, *C. obtusa* var. *breviramea* (Maxim.) Mast.,*C. obtusa* f. *breviramea* (Maxim.) Rehder, *C. obtusa* f. *compacta* (Gordon) Beissn, *C. obtusa* var. *crippsii* Rehder, *C. obtusa* f. *crippsii* (Rehder) Rehder, *C. obtusa* var. *erecta* Beissn.,*C. obtusa* f. *erecta* (Beissn.) Rehder, *C. obtusa* var. *ericoides* Boehm.exBeissn., *C. obtusa* var. *fastigiato-ovata* Uyeki, *C. obtusa* f. *filicoides* (Hartw. &Rumpler) Beissn., *C. obtusa* var. *filicoides* Hartw. &Rümpler, *C. obtusa* f. *gracilis* (Rehder) Rehder, *C. obtusa* var. *gracilis* Rehder, *C. obtusa* f. *gracilis-aurea* (R.Sm.) C.K.Schneid., *C. obtusa* var. *langissimopendula*Makino,*C. obtusa* f. *lycopodioides* (Gordon) Beissn., *C. obtusa* f. *magnifica* (R.Sm.) Rehder, *C. obtusa* f. *nana* (Carrière) Beissn.,*C. obtusa* var. *nana* Carriere, *C.obtusa* var. *obtusa, C. obtusa* f. *pendula* (Maxim.) Beissn.,*C. obtusa* var. *pendula* (Maxim.) Mast.,*C. obtusa* f. *pygmaea* (Gordon) Beissn., *C. obtusa* f. *sanderi* (Mast.) Rehder, *C. obtusa* var. *similofacifera* Makino, *C. obtusa* f. *tetragona* Rehder, *C. obtusa* var. *tetragonaaurea*G. Nicholson, *C. obtusa* var. *tsatsumi* Slavin, *C. pendula* Maxim.,*C.tsatsumi* (Slavin) Slavin, *Chamaepeuce obtusa* (Siebold&Zucc.) Zucc.ex Gordon, *Cupressus acuta* Lavallee, *C. breviramea* (Maxim.) F.Muell.,*C. obtusa* (Siebold&Zucc.) F.Muell.,*C. obtusa* subsp. *breviramea* (Maxim.) Silba, *C. obtusa* subsp. *gigantea* Silba, *C. obtusa* var. *pendula* (Maxim.)Mast.,*C. obtusa* subsp. *yokohamaensis* Silba, *C. pendens* F.Muell.,
Juniperus sanderi Mast., *Retinispora filicoides* (Hartw. &Rümpler) Veitch ex Gordon, *R. fusinoki* Zucc. Ex Gordon, *R. lycopodioides* Gordon, *R. monstrosa* Carrière, *R. obtusa* Siebold&Zucc., *R. obtusa* var. *albaspica* R.Sm., *R. obtusa* var. *argentea* Fortune ex Gordon, *R. obtusa* var. *aurea* Fortune ex Gordon, *R. obtusa* var. *breviramea* (Maxim.) A.V.Bobrov&Melikyan, *R. obtusa* var. *compacta* Gordon, *R. obtusa* var. *gracilis-aurea* R.Sm., *R. obtusa* var. *keteleerii* Standish ex Gordon, *R. obtusa* var. *magnifica* R.Sm., *R. obtusa* var. *nana-aurea* R.Sm., *R. obtusa* var. *pygmaea* Gordon, *R. sanderi* (Mast.) Sander, *R. tetragona* R.Sm.,*Shishindenia ericoides* (Boehm. ex Beissn.) Makino ex Koidz.,*Thuja obtusa* (Siebold&Zucc.) Mast.,*T. obtusa* var. *pendula* (Maxim.) Mast.

3.Systematic Position:
Christenhusz*et al.* (2011)
· Class: Equisetopsida C. Agardh

· Subclass: GnetidaePax
· Order: Cupressales Link
· Family:Cupressaceae Gray
· Genus: *Chamaecyparis*Spach
· Species: *C. obtusa*(Siebold&Zucc.) Endl.

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus:Cupressineae

4.Distribution:
Global: Native of central Japan (Honshu, Kyushu, Shikoku); Taiwan, Province of China
India:

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

6.Threat Status:
IUCN: Near Threatened
BSI:

7.Habit and Habitat: Slow growing tree, 35 m tall, *C.obtusa* is generally occupying more xeric sites on ridges or slopes.

8.Life Form: Phanerophytes

9.EconomicImportance: Timber, ornamental, this has been one of the most important species used in Japanese architecture, the wood of *C.obtusa* has been used for centuries in construction of temples and other traditional buildings because of its fine quality and high durability in outdoor conditions.

10. Probable Progenitor of:

11.DNA
C-value Methodology
2C (27.44 pg)7Feulgenmicrodensitometry7
2C (20.02 pg)2 Flow cytometry2
2C (18.60pg)9 Flow cytometry9

12.Basic chromosome number(s):x=11 1,3, 4, 5, 6, 7, 14

13. Zygotic chromosome number(s):2n=224, 5, 6, 7, 10

14. Gametic chromosome number(s):n=111, 5, 6, 14

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes):
Image file

16.Ploidy level: Diploid1, 4, 5, 6, 7, 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
Karyotype Median and submedian4, 10
Chromosome size Large4, 10
NOR chromosome(s)2 10
Degree of asymmetry Symmetrical4, 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 meiosis11 II 1, 5, 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;Translocationsetc.):