Species Datasheet

Datasheet No. G-011.010.001 DBT- Network Programme
(Family.genus.species)

1.Taxon:
Species:*Taxodiumdistichum*(L.) Rich
Subspecies:
Variety:
Cultivar:
Hybrid:
Image file

2. Synonyms:*Cuprespinnata disticha* (L.) J. Nelson, *C. disticha* (L.) J.Nelson, *Cupressus americana* Catesby ex Endl., *C. disticha* L., *C. disticha* var. *nutans* Aiton, *C. disticha* var. *patens* Aiton, *C. laeta* Salisb., *C. montezumae* Humb. &Bonpl.ex Parl., *Glyptostrobus columnaris* Carriere, *Schubertia disticha* (L.) Mirb., *Taxodium ascendens* var. *nutans* (Aiton) Rehder, *T. ascendens* f. *nutans* (Aiton) Rehder, *T. denudatum* Carriere, *T. distichum* f. *confusum* E.J.Palmer &Steyerm., *T. distichum* var. *distichum,T. distichum* subsp. *nutans* (Aiton) A.E.Murray, *T. distichum* var. *nutans* (Aiton) Sweet, *T. distichum* var. *nutans* Carriere, *T. distichum* var. *patens* (Aiton) Sweet, *T. distichum* f. *pendens* Rehder, *T. distichum* f. *pendulum-elegans* Beissn., *T. distichum* f. *pendulum-novum* P.Sm. ex Beissn., *T. knightii* K.Koch, *T. pyramidatum* Beissn., *T. sinense* Nois. ex Gordon

3. Systematic Position:
Christenhusz*et al.* (2011)
Class: Equisetopsida C. Agardh
Subclass: PinidaeCronquist
Order: Cupressales Link
Family: Cupressaceae Gray
Genus: *Taxodium*Richard
Species: *T. distichum*(L.) Rich

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: TaxodieaeEichler
Genus: *Taxodium*Richard
Species: *T. distichum*(L.) Rich

4.Distribution:
Global: Recorded from the southeastern USA: Alabama, Arkansas, Delaware, Florida, Georgia,

Illinois, Indiana, Kentucky, Louisiana, Maryland, Mississippi, Missouri, North Carolina, Oklahoma,
South Carolina, Tennessee, S Texas and Virginia.
India: Jammu & Kashmir, West Bengal

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

6.Threat Status:
IUCN: Least concern
BSI:

7.Habit and Habitat:*T.distichum* is a winter deciduous tall tree (3-35 m tall) dominant in lowland river flood plains and swamps, mostly below 30 m but up to 530 m a.s.l., where it can form extensive forests of nearly pure stands on (seasonally) inundated fluvial sediment.

8.Life Form: Phanerophytes

9.Economic Importance: The wood of *T.distichum* is soft, straight-grained and extremely rot resistant and therefore widely used in construction and building of houses, boats, river pilings and sidings, as well as shingles, flooring, garden furniture, greenhouses, cooperage, fencing and other uses for which durability is desirable,Ornamental

10. Probable Progenitor of:

11.DNA
C-value Methodology
2C (18.90 pg)3Flow cytometry3
2C (18.40 pg)11 Flow cytometry11

12.Basic chromosome number(s):x=112, 5, 7, 10

13. Zygotic chromosome number(s):2n=222, 7, 10, 15

14. Gametic chromosome number(s):n=

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

16.Ploidy level: Diploid2, 7, 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, 7, 10
KaryotypeMedian, submedian2, 7, 10, 15
Chromosome size Large2, 7, 10, 15
NOR chromosome(s)22
Degree of asymmetry Symmetrical2, 7, 10, 15
Image file

22. Banding pattern(s):CMA+15
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 level1, 4, 6

29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationsetc.):