Species Datasheet

Datasheet No. G-011.008.001 DBT- Network Programme
(Family.genus.species)

1.Taxon:
Species: *Metasequoiaglyptostroboides*Hu & W.C. Cheng
Subspecies:
Variety:
Cultivar
Hybrid
Image file

2. Synonyms:*Metasequoia glyptostroboides* var. *caespitose* Y.H.Long&Y.Wu,
M. glyptostroboides subsp. c*aespitose* (Y.H.Long&Y.Wu) Silba,
M. glyptostroboides subsp. n*eopangaea*(Silba) Silba, *M. honshuenensis* Silba& Callahan,
M. neopangaea Silba, *Sequoia glyptostroboides* (Hu &W.C.Cheng) Weide

3.Systematic Position:
Christenhusz*et al.* (2011)
· Class: Equisetopsida C. Agardh
· Subclass: PinidaeCronquist
· Order: Cupressales Link
· Family:Cupressaceae Gray
· Genus: *Metasequoia*H.H. Hu & W.C. Cheng
· Species: *M. glyptostroboides* Hu & W.C. Cheng

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

4.Distribution:
Global: Native to China
India: West Bengal and Uttarakhand (FRI, Dehradun)

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

6.Threat Status:
IUCN: Endangered
BSI:

7.Habit and Habitat: Tree (60 m tall), an extensive flood plain forest, fast growing tree of moist habitat, The soil is clay and sand derived from sandstone, with slightly acid to neutral

pH and a strongly fluctuating but not deep water table. The climate is characterized by hot summers and cold winters.

8.Life Form: Phanerophytes

9.Economic Importance: Trees of this species must have been used for construction timber locally.

10. Probable Progenitor of:

11.DNA
C-value Methodology
2C (12.95 pg) 5Feulgenmicrodensitometry5
2C (22.08 pg)3Flow cytometry3
2C (19.30 pg)8 Flow cytometry8

12.Basic chromosome number(s):n=111, 2, 4, 6, 7, 9

13. Zygotic chromosome number(s):2n=222, 6, 7, 9, 22+B1

14. Gametic chromosome number(s):n=1110

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):B chromosome1
Image file

16.Ploidy level: Diploid1, 2, 6, 7, 9, 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, 6
KaryotypeMedian and submedian2, 6, 9
Chromosome size Large2, 6
NOR chromosome(s)62
Degree of asymmetry Symmetrical2, 6
Image file

22. Banding pattern(s):CMA+ 9
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 10
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.):