

Genus Datasheet

Datasheet No. G-011.008

(Family.Genus)

DBT- Network Programme

1. **Genus:***Metasequoia*H.H. Hu & W.C. Cheng

2. Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Metasequoia*H.H. Hu & W.C. Cheng

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae

3. Species:

Global:2

India: 1

4. Taxonomic riddles:

5. Distribution:

Global: Sichuan, Hubei and Hunan Provinces in Central and Southeast China

India:

6. Habit and Habitat:Big trees can grow to at least 200 ft (61 m) in height in open forests, preferring shady Places, such as ravines and stream banks.Fast growing tree of moist habitat.

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

8. DNA content range:

Methodology

2C (12.95 pg)⁵Feulgenmicrodensitometry⁵

2C (19.80-22.08 pg)^{3,8}

Flow cytometry^{3,8}

9. Basic chromosome number(s): $x=11$ ^{1, 2, 4, 6, 7, 9, 10}

10. Zygotic chromosome number(s): $2n=22$ ^{2, 6, 7, 9}, $22+B$ ¹

1. Gametic chromosome number(s): $n=11$ ¹⁰

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/Neocentric chromosomes):B chromosome¹

13. Ploidy level:Diploid^{1, 2, 6, 7, 9, 10}

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

16. Karyograms: 2, 6, 9

Meiosis:¹⁰

17. Banding pattern(s):CMA+⁹

18. Physical mapping of chromosomes:

GISH:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: