

Genus Datasheet DBT- Network

Datasheet No. G-011.003
Programme
(Family.Genus)

1. Genus: *Chamaecyparis* Spach

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Cupressineae

2.

Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Gnetidae Pax
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Chamaecyparis* Spach

3. Species:

Global: 5

India: 1

4. Taxonomic riddles: ^{11, 12, 13}

5. Distribution:

Global: Native of central Japan, Taiwan, Province of China and to the western and eastern margins of the [United States](#)

India: Tamil Nadu

6. **Habit and Habitat:** Medium-sized to large [evergreen trees](#) growing from 20–70 m (66–230 ft) tall, Prefers sandy and clay loams and rocky ridges, *C. obtusa* is generally occupying more xeric sites on ridges or slopes.

7. Economic Importance: A very ornamental tree frequently planted in gardens. The wood is valuable for traditional construction work

8. DNA content range: **Methodology**

2C (22.11-30.10 pg)⁷ Feulgen microdensitometry⁷

2C (18.50-27.40 pg)^{2, 9} Flow cytometry^{2,9}

9. Basic chromosome number(s): $x=11$ ^{1, 3, 4, 5, 6, 7, 8, 10, 14}

10. Zygotic chromosome number(s): $2n=22$ ^{3, 4, 5, 6, 7, 8, 10}

1. Gametic chromosome number(s): $n=11$ ^{1, 5, 6, 14}

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

13. Ploidy level: Diploid ^{1, 4, 5, 6, 7, 8, 10, 14}

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

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

16. Karyograms: ^{4, 10}

Meiosis: ^{1, 5, 6, 14}

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: