

Genus Datasheet
DBT- Network Programme

Datasheet No. G-012.002
(Family.Genus)

1. Genus: *Taxus* L.

2. Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Gnetales Pax
- Order: Cupressales Link
- Family: Taxaceae Gray
- Genus: *Taxus* L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Taxeae Rich. ex Duby
Genus: *Taxus* L.

3. Species:

Global: 9

India: 1

4. Taxonomic riddles:

5. Distribution:

Global: Britain to North Iran., Burma, China, El Salvador, Florida, Guatemala, India, Japan, Korea, Mexico, Philippines, Russia, South East Alaska to California, South East Canada to North East USA, Taiwan, Vietnam,

India: Arunachal Pradesh, Manipur, Meghalaya, Nagaland, Sikkim, Uttarakhand

6. Habit and Habitat: Medium sized evergreen tree, found in montane, temperate, warm temperate, and tropical submontane to high montane forest

7. Economic Importance: The tree has medicinal use in Ayurveda and Tibetan medicine. *Taxus wallichiana* is also a source of the chemical precursors to the anticancer drug paclitaxel. The wood is also burnt as incense in Nepal and parts of Tibet. In other areas the wood is used as fuel. The leaves are toxic but can be given as fodder to goats if no other foliage is available.

8. DNA content range:

Methodology

9. Basic chromosome number(s): $x=12$ ^{5, 9}

10. Zygotic chromosome number(s): $2n=24$ ⁵

1. Gametic chromosome number(s): 12(endosperm mitosis) ⁹

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

13. Ploidy level: Diploid ^{5, 9}

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

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

16. Karyograms: ^{5, 9}

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: ^{1, 2, 3, 4, 6, 7, 8, 10, 11, 12}

21. Linkage map:

22. Any other information: