

# Genus Datasheet

Datasheet No. G-011.009

(Family.Genus)

DBT- Network Programme

1. Genus: *Platyclus* Spach

## 2. Systematic Position:

**Christenhusz et al. (2011)**

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Platyclus* Spach

**Bentham and Hooker (1862)**

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

## 3. Species:

**Global:** 1

**India:** 1

## 4. Taxonomic riddles:

## 5. Distribution:

**Global:** Native to northwestern [China](#), [Korea](#), and the [Russian Far East](#)

**India:** Introduced in various gardens

**6. Habit and Habitat:** Small trees or shrubs, open woodland zone

**7. Economic Importance:** The wood is used for building and construction of houses and temples where there are still trees of good size left. The foliage is in some parts of China much used for incense burning. Also used as ornamental tree

## 8. DNA content range:

2C (22.79pg)

2C (20.40-20.92 pg)<sup>2, 12</sup>

## Methodology

Feulgen microdensitometry<sup>7</sup>

Flow cytometry<sup>2, 12</sup>

**9. Basic chromosome number(s):** $x=11$ <sup>1, 3, 4, 5, 6, 7, 8, 9, 11, 13</sup>

**10. Zygotic chromosome number(s):** $2n=22$ <sup>1, 4, 5, 6, 7, 8, 9, 11, 13,</sup>  
<sup>19,22,24,33,44</sup><sup>10</sup>

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

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

**13. Ploidy level:**Diploid<sup>1, 4, 5, 6, 7, 8, 9, 11, 13,</sup>  
Triploid, Tetraploid, Aneuploids(Sporadic)<sup>10</sup>

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

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

**16. Karyograms:** 4, 5, 6, 13

**Meiosis:**

**17. Banding pattern(s):**CMA<sup>+</sup> bands<sup>13</sup>

**19. Phylogenetic relationship at Chromosomal; DNA level:**

**20. Cytogenetic mechanism (s) underlying evolution:**

**21. Linkage map:**

**22. Any other information:**