

# Genus Datasheet

Datasheet No. G-001.001  
(Family.Genus)

DBT- Network Programme

1. Genus: *Cycas* L.

### 3. Systematic Position: Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Cycadidae Pax
- Order: Cycadales Pers.
- Family: Cycadaceae Pers.
- Genus: *Cycas* L.

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Gymnospermeae  
Ordo: Cycadaceae Pers.  
Tribus: Cycadeae Colla  
Genus: *Cycas* L.

### 3. Species:

Global: 93

India: 14

4. Taxonomic riddles: 23, 24, 25, 26, 27

### 5. Distribution:

**Global:** Japan, Australia, India, Indochina, China, Mauritius, Africa, Nepal, Bangladesh, Sri Lanka and Myanmar

**India:** Grows naturally in Orissa, Assam, Meghalaya, Tamil Nadu, Karnataka and Andaman and Nicobar Islands

**6. Habit and Habitat:** Small shrubs or trees, this is characteristically a species of dry, open hill slopes. It grows in an area with annual rainfall of 570-1,230 mm. Plants grow on skeletal soils, mainly in dry deciduous mixed type forest with patches of moist deciduous forest.

**7. Economic Importance:** Ornamental, Pith contains edible starch used for making sagoo

### 8. DNA content range:

### Methodology

2C (25.54 - 29.51 pg) <sup>11</sup>Feulgen microdensitometry

2C (27.40 pg) <sup>29</sup>Flow cytometry

2C (20.60 pg) <sup>28</sup>other method

**9. Basic chromosome number(s):** $x=11$ <sup>1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 16, 17, 18, 20, 21</sup>

**10. Zygotic chromosome number(s):** $2n=22$ <sup>1, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 16, 17, 18, 20, 21</sup>

**1. Gametic chromosome number(s):** $n=11$ <sup>1, 5, 19</sup>

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

**13. Ploidy level:**Diploid<sup>1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 16, 17, 18, 19, 20, 21</sup>

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

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

**16. Karyograms:** <sup>1, 3, 4, 5, 7, 8, 9, 10, 11, 13, 16, 17, 18, 20, 21</sup>

**Meiosis:**<sup>5</sup>

**17. Banding pattern(s):**<sup>4,9, 18</sup>

**18. Physical mapping of chromosomes:** <sup>3, 4, 5, 7, 21</sup>

**GISH:**

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

**21. Linkage map:**

**22. Any other information:**