

# Genus Datasheet

Datasheet No. A-076.013  
(Family.Genus)

DBT- Network Programme

1. Genus: *Calamus* L.

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Clade: Commelinids
- Order: Arecales Bromhead
- Family: Arecaceae Bercht. & J. Presl
- Genus: *Calamus* L.

Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Calycinae  
Ordo: Palmae Juss.  
Genus: *Calamus* L.

3. Species:

**Global:** 380

**India:** 36

4. Taxonomic riddles:

5. Distribution:

**Global:** Africa, India, Himalayan foothills to south China, throughout Southeast Asia to the western Pacific Islands and Australia.

**India:** South India, North-central India, North-east India, Andaman and Nicobar Islands

6. Habit and Habitat: Climbing Palm. Tropical Moist Forest

7. Economic Importance: Leaves are used as thatch, spines in various ways, used for constructing fish traps, fruits are eaten and may even be sold in local markets, and some species may be medicinally valuable.

8. DNA content range:

2C (3.53 – 4.49 pg)<sup>6</sup>

4C (9.27 pg)<sup>11</sup>

Methodology:

Flow cytometry<sup>6</sup>

Feulgen microdensitometry<sup>11</sup>

9. Basic chromosome number(s):  $x = 14$ <sup>20, 21</sup>

10. Zygotic chromosome number (s):  $2n = 26$ <sup>1, 2, 3, 8, 9, 11, 13</sup>

$2n = 28$ <sup>4, 5, 7, 10</sup>

**11. Gametic chromosome number (s):**  $n=13^{1,2,9,12}$

$$n=14^5$$

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

**13. Ploidy level:** Diploid<sup>3</sup>

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

**15. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):** Somatic cells chromosomes  $2n=14^{5,7}$ ,  $2n=24^5$ ,  $2n=26^7$

**16. Karyograms:**<sup>5</sup>

**Meiosis:**

**17. Banding pattern(s):**

**18. Physical mapping of chromosomes:**

**GISH:**

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

DNA level <sup>14,15,16,17,18,19,22, 23, 24, 25, 26, 27, 28</sup>

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

**21. Linkage map:**

**22. Any other information:**