

# Genus Datasheet

Datasheet No. A-076.003  
Programme

DBT- Network

(Family, Genus)

1. Genus: *Arenga* Labill.

## 2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Arecales Bromhead
- Family: Arecaceae Bercht. & J. Presl
- Subfamily: Coryphoideae Burnett
- Genus: *Arenga* Labill.

**Bentham and Hooker (1862)**

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Calycinae  
Ordo: Palmae Juss.  
Genus: *Arenga* Labill.

## 3. Species:

**Global:** 25

**India:** 5

## 4. Taxonomic riddles:

## 5. Distribution:

**Global:** Asia to New Guinea and Australia

**India:** Assam, Andaman Islands, Arunachal Pradesh, East Himalaya, Karnataka, Kerala, Maharashtra, Manipur, Sikkim, Tamil Nadu, West Bengal

**6. Habit and Habitat:** Dwarf to large, solitary or clustered, unarmed or lightly armed, pleoanthic or hapaxanthic, monoecious shrubby or tree palms; grow in the lowlands and hills of the perhumid tropics

**7. Economic Importance:** It is widely cultivated as a source of sugar, wine, fiber, thatch, sago and many other products.

## 8. DNA content range:

2C

4C

## Methodology:

**9. Basic chromosome number(s):**  $x=13^1$

**10. Zygotic chromosome number (s):**  $2n=26^1$

$2n=32, 3, 4, 5, 6, 7, 8$

**11. Gametic chromosome number (s):**  $n=16^{3, 5}$

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

**13. Ploidy level:**

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

**15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):** Somatic cells chromosomes number  $2n= 6^5$ ,  $2n=16^5$

**16. Karyograms:**<sup>2, 5</sup>

**Meiosis:**

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

**18. Physical mapping of chromosomes:**

**GISH:**

**19. Phylogenetic relationship at Chromosomal; DNA level: DNA level<sup>10</sup>**

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

**21. Linkage map:**

**22. Any other information:**