

# Species Datasheet

Datasheet No. A-076.006.001  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Caryota mitis* Lour.

Subspecies

Variety

Cultivar

Hybrid

Commonly known as 'burmese fishtail palm'

Image file

**2. Synonyms:** *Caryota furfuracea* Blume ex Mart., *C. griffithii* Becc., *C. griffithii* var. *selebica* Becc., *C. javanica* Zipp. ex Miq., *C. nana* Linden, *C. propinqua* Blume ex Mart., *C. sobolifera* Wall. ex Mart., *C. speciosa* Linden, *Drymophloeus zippellii* Hassk., *Thuessinkia speciosa* Korth.

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Arecales Bromhead
- Family: Areaceae Bercht. & J. Presl
- Subfamily: Coryphoideae Burnett
- Genus: *Caryota* L.
- Species: *C. mitis* Lour.

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Calycinae  
Ordo: Palmae Juss.  
Genus: *Caryota* L.  
Species: *C. mitis* Lour.

## 4. Distribution:

**Global:** Cambodia, Hawaii, India, Indonesia, Laos, Malaysia, Myanmar, Northern Australia, Philippines, Southern China, Southern Florida, Thailand, Vietnam,

**India:** Andaman and Nicobar Islands

**5. Indigenous/Exotic/ Endemic; Cultivated/Wild:** Wild and Cultivated

## 6. Threat Status:

IUCN:

BSI:

**7. Habit and Habitat:** evergreen Tree; lowland rain forests to 500 m elevation

**8. Life Form:** Phanerophyte

**9. Economic Importance:** It is used as ornamental plant; leaves are used for thatching, weaving and decorations.

**10. Probable Progenitor of:**

## 11. DNA

C- value

Methodology

**12. Basic chromosome number(s):**

**13. Zygotic chromosome number(s):**  $2n= 28^{1,2}$

$2n= 32^{3,4,5,6}$

$2n= 34^7$

**14. Gametic chromosome number(s):**  $n= 16^4$

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

Image file

**16. Ploidy level:**

Image file

**17. Agametoploidy**

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

**19. Genomic formula:**

**20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):** Several somatic cells with abnormal chromosomes number  
 $2n=7^4$ ,  $2n=10^4$ ,  $2n=28^4$

**21. Somatic chromosomes:**

**Karyotype** Majority metacentric to submetacentric chromosomes<sup>4</sup>

**Chromosome size** Small to medium<sup>4</sup>

**NOR chromosome(s)** 8 NOR<sup>4</sup>

**Degree of asymmetry:**

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

Image file

**23. Physical mapping of chromosomes:**

**In situ hybridization**

Image file

**Fluorescent in situ hybridization**

Image file

**24. Genomic in situ hybridization:**

Image file

**25. Linkage map:**

Image file

**26. Chromosome associations:**

**Female meiosis**

**Male meiosis**  $16\text{II}^4$

Image file

**27. Chromosome distribution at anaphase I:** Laggards frequent<sup>4</sup>; Inversion bridge with fragment and lagging univalents<sup>11</sup>

**28. Genetic diversity:**

**Chromosomal level**

Image file

**DNA level**

**29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):**

Ungerminated pollen= 36%<sup>11</sup>