Genus Datasheet

Datasheet No. A-076.006
Network Programme
(Family.Genus)

1. Genus: *Caryota* L.

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: *Caryota* L.

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Calycinae
Ordo: Palmae Juss.
Genus: *Caryota* L.

3. Species:

Global: 14

India: 4

4. Taxonomic riddles:

5. Distribution:

Global: Australia, Bangladesh, Borneo, Cambodia, China, India, Java, Laos, Malaya, Malaysia, Maluku, Myanmar, Nepal, New Guinea, Pacific, Papuasia, Philippines, Solomon Islands, Sri Lanka, Sulawesi, Sumatera, Thailand, Vanuatu, Vietnam

India: Assam, Andaman and Nicobar Islands, Arunachal Pradesh, East Himalaya, Manipur, Sikkim

6. Habit and Habitat: Large, monoecious palms; ranging from monsoon climate to prehumid areas, from sea level to 2000 m in the mountains

7. Economic Importance: The shoot apex is edible and good. Stems provide sago, the larger species being especially favoured. Timber is used for construction purposes. Leaf sheath fibres are extremely durable and harvested for thatch, cordage, and other purposes. Also use as ornamental views

8. DNA content range: 4C (26.44 pg) [8]

Methodology: Feulgen microdensitometry[8]

9. Basic chromosome number(s): x= 16[12]

10. Zygotic chromosome number (s): 2n= 28[1, 2]

2n= 32[3, 4, 5, 6, 9]

2n= 34[7, 10]

11. Gametic chromosome number (s): n= 16[4]

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

13. Ploidy level:

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): Several somatic cells with abnorma number 2n=7[4], 2n=8[4],2n=10[4], 2n=28[4]

16. Karyograms:[4] **Meiosis:**

17. Banding pattern(s):

18. Physical mapping of chromosomes: **GISH:**

19. Phylogenetic relationship at Chromosomal; DNA level: DNA level[13, 14]

20. Cytogenetic mechanism (s) underlying evolution

21. Linkage map:

22. Any other information: