

Species Datasheet

Datasheet No. A-076.013.027
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species *Calamus rotang* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Calamus monoecus* Roxb., *C. roxburghii* Griff., *C. scipionum* Lam., *Draco rotang* Crantz, *Palmijuncus monoecus* (Roxb.) Kuntze, *Rotang linnaei* Baill., *R. calamus* Crantz

3. Systematic Position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

4. Distribution:

Global: Sri Lanka, India

India: Andhra Pradesh, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Climbing Palm. Along the river banks, streams, at low elevation.

8. Life Form: Phanerophyte

9. Economic Importance: Used in furniture industry and for basket making; mature fruits are edible.

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n= 26$ ^{1, 2, 8, 9}

$2n= 28$ ^{4, 5, 10}

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

$n= 14$ ⁵

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): Somatic cells with abnormal chromosomes number $2n=14$ ⁵, $2n=24$ ⁵

21. Somatic chromosomes:

Karyotype: Majority metacentric chromosomes⁵

Chromosome size: Small⁵

NOR chromosome(s): 4 NOR⁵

Degree of asymmetry:

Image file

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 14II ⁵

Image file

27. Chromosome distribution at anaphase I: Irregular separation⁵

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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