

Species Datasheet

Datasheet No. A-076.013.006
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species *Calamus erectus* Roxb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Calamus collinus* Griff., *C. erectus* var. *birmanicus* Becc., *C. erectus* var. *collinus* (Griff.) Becc., *C. erectus* var. *erectus*, *C. erectus* var. *macrocarpus* (Griff. ex Mart.) Becc., *C. erectus* var. *schizospathus* (Griff.) Becc., *C. macrocarpus* Griff. ex Mart., *C. schizospathus* Griff., *Palmijuncus collinus* (Griff.) Kuntze, *P. erectus* (Roxb.) Kuntze, *P. macrocarpus* (Griff. ex Mart.) Kuntze, *P. schizospathus* (Griff.) Kuntze

3. Systematic Position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

4. Distribution:

Global: Bangladesh, China, India, Myanmar

India: Arunachal Pradesh, Assam, Meghalaya, Sikkim, Tripura, West Bengal

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Climbing Palm. Evergreen forests, grows in the lower hill forests especially on the drier slopes.

8. Life Form: Phanerophyte

9. Economic Importance: The Miri tribe of Assam plains made their thatched huts on bamboo pillars raised about 1 - 1.5 m above the ground level to protect them from flood and wild animals. For making the huts they use split *Dendrocalamus* bamboo and strong canes of *Calamus erectus*, leaves are used as thatch. Stems and leaves of *C. erectus* are also used by them for making poultry houses. In Sylhet, Bangladesh, people chew the seeds of *C. erectus* in place of betel nuts (*Areca catechu*).

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

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

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

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):

21. Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

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

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level ¹⁶

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