Species Datasheet CalU+SUK-Phase I

Datasheet No. A-085.002.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species:*Musa acuminata* Colla
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Musa simiarum* Kurz

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Commelinids
- Order: Zingiberales Griseb.
- Family: Musaceae Juss.
- Genus:*Musa* L.
- Species:*M. acuminata* Colla

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class:Monocotyledones
- Series: Epigynae
- Ordo: Scitamineae
- Genus:*Musa* L.
- Species:*M. acuminata* Colla

4. Distribution:

Global: Southern China, India, Sri Lanka, Myanmar, Thailand, Vietnam, Malaysia, Indonesia and the Philippines

India: Assam, Kerala, Maharashtra, Tamil Nadu, Andaman and Nicobar Island

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

6. Threat Status:

IUCN: Least concern

BSI

7. Habit and Habitat: Large cormous herb; Shaded and moist ravines, marshlands, semi-marshlands and slopes at elevations from near sea level to 1,200 meters

8. Life Form: Cormous geophyte

9. Economic Importance: It is cultivated as an ornamental plant for its striking shape and foliage. Fruits, male flowers, young shoots are edible. The plant has medicinal properties, leaves are used for packing, wrapping and decorative purposes, The leaves and shoots yield a fiber which can be used for making a high-quality cloth, fibers from the stem are used for making rugs with a silk-like texture, fibers from the bark are used for making paper

10. Probable Progenitor of:

11. DNA

C-value	Methodology

12. Basic chromosome number(s): x=11[8]

13. Zygotic chromosome number(s):2n=22[1,2,3,4,5,6]; 2n=33[2,3,7,8]

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Triploid[8]

Image file

17. Agametoploidy:

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

19. Genomic formula: AAA[8]; AAB[8]

20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

21. Somatic chromosomes:

Karyotype Majority nearly metacentric chromosomes[8]

Chromosome size 54.95-75.6 μm[8]

NOR chromosome(s): 3-12 NOR[8]

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[9,10]

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