

Datasheet No. A-085.002
(Family:Genus)

DBT- Network Programme

1. Genus:*Musa*L.

2. Systematic position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

3. Species:

Global: 86

India:24

4. Taxonomic riddles:

5. Distribution:

Global: Bangladesh, Bismarck Archipelago, Borneo, Cambodia, China, Hainan, India, Japan, Jawa, Laos, Lesser Sunda Island, Malaya, Maluku, Myanmar, Nansei-shoto, Nepal, New Caledonia, New Guinea, Philippines, Queensland, Samoa, Solomon Island, Sri Lanka, Sulawesi, Sumatera, Taiwan, Thailand, Tibet, Vietnam, Alabama, Ascension, Brazil South, Burkina, Canary Island, Caroline Island, Central African Repu, Chad, Chagos Archipelago, Colombia, Comoros, Cook Island, Costa Rica, Ecuador, Fiji, Florida, Gambia, Guatemala, Guinea, Guinea-Bissau, Gulf of Guinea Island, Hawaii, Honduras, Juan Fernández Island, Kenya, Korea, Leeward Island, Line Island, Madagascar, Maldives, Marquesas, Mauritius, Mexico, Nauru, Nicaragua, Niue, Peru, Puerto Rico, Réunion, Santa Cruz Island, Senegal, Society Island, South China Sea, Spain, Tanzania, Tokelau-Manihiki, Tonga, Trinidad-Tobago, Tuamotu, Tubuai Island, Turkey, Tuvalu

India: Cultivated throughout India

6. Habit and Habitat:Large cormous herb

7.Economic Importance:Fruits are edible, fibres obtained from sheathing leaf bases are used as cordage, used as ornamental, leaves used for wrapping

8. DNA content range:

2C (1.108-1.76 pg)^{11,12,13,22}

Methodology

Flow cytometry^{11,12,13,22}

9. Basic chromosome number(s): $x=11$ ^{8,13}

10. Zygotic chromosome number(s): $2n=20$ ²¹; $2n=22$ ^{1,2,3,4,5,6,11,14,15,22,23,24,25,26,27}; $2n=24$ ²⁸

11. Gametic chromosome number(s): $n=11$ ^{14,16,24}

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ Neocentric chromosomes):89% cells showed presence of 1 B chromosome²⁴

13. Ploidy level:Diploid^{11,13,15}; triploid^{8,13}

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

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

16. Karyograms:

Meiosis:²⁴

17. Banding pattern(s):

18. Physical mapping of chromosomes:GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:DNA level^{29,30}

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information:Total number of species with reports = 8/24