Genus Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-239.001
(Family.Genus)

DBT- Network Programme

1. Genus:*Anacardium* L.

2. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superrosids
- Clade: Rosids
- Order: Sapindales Juss. Ex Bercht. & J. Presl
- Family: Anacardiaceae R. Br.
- Genus:*Anacardium* L.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Disciflorae
- Cohors: Sapindales Juss. Ex Bercht. & J. Presl
- Ordo: Anacardiaceae R. Br.
- Genus: *Anacardium* L.

3. Species:

Global: 20

India:1

4. Taxonomic riddles:

5. Distribution:

Global: Africa, Bangladesh, India, Myanmar, Philippines, Sri Lanka and Tropical America

India: Hotter parts of India, especially near coastal areas

6. Habit and Habitat: Evergreen small trees; found near coastal areas

7.Economic Importance: In*A. occidentale*edible seeds are referred to as cashew nuts. They are surrounded by leathery shell (mesocarp), which is rich in liquid. This substance is an important raw material for resin. The liqu contains skin-irritant toxic compounds, which are removed by heating. The fleshy hypocarp, or cashew apple, processed into jam and dried fruit.

8. DNA content range: **Methodology**

2C(0.743-0.899 pg)[1] Flow cytometry[1]

9. Basic chromosome number(s):x=7[3]; x=12[7]

10. Zygotic chromosome number(s):2n=40[2]; 2n=42[3]

11. Gametic chromosome number(s):n=12[4,5]; n=15[6]; n=21[3]

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

13. Ploidy level: Diploid[3]; polyploid[7]

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): aneuploid chron with n=20[7]

16. Karyograms: **Meiosis:**[3]

17. Banding pattern(s):

18. Physical mapping of chromosomes:GISH:

19.Phylogenetic relationship atChromosomal; DNAlevel:

20. Cytogenetic mechanism (s) underlying evolution: Intraspecific aneuploidy played important evolution of taxa[7]

21. Linkage map:

22. Any other information: