Genus Datasheet

Datasheet No. A-073.001
(Family.Genus)

DBT- Network Programme

1. Genus: *Pancratium* L.

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Amaryllidaceae J. St.-Hil.
- Subfamily: Amaryllidoideae Burnett
- Genus: *Pancratium* L.

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Epigynae
Ordo: Amaryllidaceae J. St.-Hil.
Genus: *Pancratium* L.

3. Species:

Global: 21

India: 9

4. Taxonomic riddles: Yes[16, 19]

5. Distribution:

Global: Africa, Mediterranean to Malesia

India: Throughout India.

6. Habit and Habitat: Bulbous geophytic herbs, perennial; grows in extremely dry and sandy areas, tropical dry forest.

7. Economic Importance: Used as ornamental plant, biopesticide and medicine.

8. DNA content range:

2C

Methodology:

4C

9. Basic chromosome number(s): x= 11[4,20]

10. Zygotic chromosome number (s): 2n = 20[8]

2n = 22[1,2,3,5,6,10,17]

2n =28[13]

2n =33[3]

2n =44[4,11]

2n 46[15]

2n = 48[7,12]

2n =55[4]

2n =66[14]

2n =90[11]

2n =80-100[9]

11. Gametic chromosome number (s): n= 11[18]

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/ N chromosomes): B chromosomes (4)[17]

13. Ploidy level: Diploid[3], triploid[3], tetraploid[4], pentaploid[4], hexaploid[14]

14. Nature of polyploidy (auto, segmental, allo, autoallo): Autoploid[3,4]

16. Karyograms:[1,3,17] **Meiosis:**[18]

17. Banding pattern(s):

18. Physical mapping of chromosomes: **GISH:**

19. Phylogenetic relationship at Chromosomal; DNA level: DNA level[16,19]

20. Cytogenetic mechanism (s) underlying evolution

21. Linkage map:

22. Any other information: