

Datasheet No. A-018.002

(Family.Genus)

DBT- Network Programme

1. Genus: *Annona* L.

2. Systematic positions:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Magnolids
- Order: Magnoliales Juss.
- Family: Annonaceae Juss.
- Genus: *Annona* L.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Ranales
- Ordo: Annonaceae Juss.
- Genus: *Annona* L.

3. Species:

Global: 110

India: 5

4. Taxonomic riddles:

5. Distribution:

Global: Angola, Argentina Northeast, Argentina Northwest, Bahamas, Belize, Benin, Bolivia, Botswana, Brazil, Burkina, Burundi, Cabinda, Cameroon, Cape Verde, Caprivi Strip, Cayman Island, Central African Repu, Central American Pac, Chad, Colombia, Comoros, Congo, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Ethiopia, Florida, French Guiana, Gabon, Gambia, Ghana, Guatemala, Guinea, Guinea-Bissau, Gulf of Guinea Island, Guyana, Haiti, Honduras, Ivory Coast, Jamaica, Kenya, KwaZulu-Natal, Leeward Island, Liberia, Madagascar, Malawi, Mali, Mexico Central, Mexico Gulf, Mexico Northeast, Mexico Northwest, Mexico Southeast, Mexico Southwest, Mozambique, Namibia, Netherlands Antilles, Nicaragua, Niger, Nigeria, Northern Provinces, Panamá, Paraguay, Peru, Puerto Rico, Rwanda, Senegal, Sierra Leone, Southwest Caribbean, Sudan, Suriname, Swaziland, Tanzania, Togo, Trinidad-Tobago, Uganda, Uruguay, Venezuela, Venezuelan Antilles, Windward Island, Zambia, Zaïre, Zimbabwe, India, Aruba, Bangladesh, Bermuda, Cambodia, Christmas I., Cook Island, Eritrea, Fiji, Galápagos, India, Kermadec Island, Laccadive Island, Laos, Lesser Sunda Island, Maldives, Marquesas, Mauritania, Mauritius, Nauru, New Caledonia, Niue, Rodrigues, Réunion, Santa Cruz Island, Saudi Arabia, Seychelles, Society Island, Solomon Island, Sulawesi, Tuamotu, Tubuai Island, Vanuatu, Yemen

India: Widely cultivated throughout India

6. Habit and Habitat: Trees or shrubs

7. Economic Importance: Fruits are edible

8. DNA content range:

1C (1.7 pg)¹

Methodology

Flow cytometry¹

2C (2.46-2.67 pg)⁸

Feulgen microdensitometry⁸

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): $2n=14^{2,5,8,9,10}$; $2n=16^{3,4,6,7}$; $2n=28^3$

11. Gametic chromosome number(s): $n=7^{11}$; $n=14^{12,13}$

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

13. Ploidy level: Diploid^{1,8}; tetraploid⁴

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

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

16. Karyograms:

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes: GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: Total number of species with reports = 5/5