

Final Species Datasheet

JamU+CalU+SUK-Phase I

Datasheet No. A-018.002.003
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Annona muricata* L.

Subspecies:

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Annona bonplandiana* Knuth, *A. cearaensis* Barb.Rodr., *A. muricata* f. *mirabilis* R.E.Fr., *A. muricata* var. *borinquensis* Morales.

3.Systematic Position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

4.Distribution:

Global: Belize, Bolivia, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Mexico Southeast, Nicaragua, Panamá, Peru, Suriname, Venezuela, Andaman, Bangladesh, Benin, Brazil Northeast, Brazil Southeast, Cameroon, Cayman Island, Central African Repu, Christmas I., Cook Island, Cuba, Dominican Republic, El Salvador, Gabon, Galápagos, Gambia, Guinea, Guinea-Bissau, Gulf of Guinea Island, Haiti, Jamaica, Laos, Leeward Island, Maldives, Mauritania, Mauritius, Mexico Central, Mexico Southwest, Nicobar Island, Niue, Puerto Rico, Rodrigues, Réunion, Santa Cruz Island, Senegal, Seychelles, Society Island, Southwest Caribbean, Trinidad-Tobago, Vanuatu, Venezuelan Antilles, Vietnam, Windward Island

India: Andaman and Nicobar Islands, Andhra Pradesh, Assam, Karnataka, Maharashtra, Tamil Nadu

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat:Tree

8.Life Form:Phanerophyte

9.Economic:Fruits edible.The juice is used in the treatment of kidney disease

10. Probable Progenitor of:

11.DNA

C-value

1C (1.7 pg)¹

Methodology

Flow cytometry¹

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=14^{2,5}; 2n=16^{4,6,7}$

14. Gametic chromosome number(s): $n=8^6$

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

Image file

16.Ploidy level:Diploid¹

Image file

17.Agametoploidy:

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

19.Genomic formula:

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

21.Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

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

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