

# Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-120.001.004  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Dillenia indica* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Dillenia indica* var. *aurea* (Sm.) Kuntze, *Dillenia indica* f. *elongata* (Miq.) Miq.

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Order: Dilleniales
- Family: Dilleniaceae Salisb.
- Genus: *Dillenia* L.
- Species: *D. indica* L.

### Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Ranales
- Ordo: Dilleniaceae Salisb.
- Genus: *Dillenia* L.
- Species: *D. indica* L.

## 4. Distribution:

**Global:** Bangladesh, Borneo, Cambodia, China, India, Jawa, Laos, Malaya, Myanmar, Nepal, Philippines, Sri Lanka, Sumatera Thailand, Vietnam, Cuba, Ecuador, Gulf of Guinea Island, Mauritius, Trinidad-Tobago, Windward Island

**India:** Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Tamil Nadu, Uttar Pradesh West Bengal.

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

## 6. Threat Status:

IUCN: Least concern

BSI:

7. Habit and Habitat: Tree; Tropical and sub-tropical region

8. Life Form: Phanerophyte

9. Economic Importance: Fruits are edible

10. Probable Progenitor of:

## 11. DNA

C-value

4C (2.05±0.27 pg)<sup>1</sup>

Methodology

Feulgen microdensitometry<sup>1</sup>

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):  $2n=24^2$

14. Gametic chromosome number(s):  $n=28^3$

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

Image file

**16. Ploidy level:**

Image file

**17. Agametoploidy:**

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

**19. Genomic formula:**

**20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):**

**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 (Apoxyis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):**