

Genus Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-240.001
(Family.Genus)

DBT- Network Programme

1. Genus:*Acer* 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: Sapindaceae Juss.
- Genus:*Acer* L.

Bentham and Hooker (1862)

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

3. Species:

Global: 160

India: 17

4. Taxonomic riddles:

5. Distribution:

Global: Bhutan, China, India, Laos, Myanmar, Nepal, Pakistan, Vietnam

India: Central to Eastern Himalaya

6. Habit and Habitat: Trees or shrubs; found in mixed forests, alpine forests

7. Economic Importance: Used as timber

8. DNA content range:

2C (1.84 – 3.56 pg)¹

Methodology

Flow cytometry¹

9. Basic chromosome number(s): $x=13^{8,15}$; $x=26^4$

10. Zygotic chromosome number(s): $2n=26^{2,7,13}$; $2n=52^{2,11,12}$

11. Gametic chromosome number(s): $n=13^{3,4,5,6,9,10}$; $n=26^{2,4,6}$

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

13. Ploidy level: Diploid^{2,8}

- 14. Nature of polyploidy (auto, segmental, allo, autoallo):**
- 15. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):**
- 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 = 14/17