

1. Genus: *Tithonia* Desf. ex Juss.

2. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Asterales Link
- Family: Asteraceae Bercht. & J. Presl
- Genus: *Tithonia* Desf. ex Juss.

Bentham and Hooker (1862)

Kingdom: Plantae
 Division: Phanerogamia
 Class: Dicotyledons
 Subclass: Gamopetalae
 Series: Inferae
 Cohors: Asterales Link
 Ordo: Compositae Giseke
 Genus: *Tithonia* Desf. ex Juss.

3. Species:

Global: 21

India: 2

4. Taxonomic riddles: ¹⁹

5. Distribution:

Global: Australia, Belize, Brazil, Caribbean, China, Colombia, Costa Rica, Ecuador, El Salvador, India, French Guiana, Guatemala, Honduras, Mexico, Nicaragua, Panama, South Africa, USA

India: Widespread weed

6. Habit and Habitat: Herb, shrub/ undershrub. Common in ravine slopes, riverbanks and marshy wastelands etc.

7. Economic Importance: Cultivated in garden

8. DNA content range:

Methodology

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): $2n = 30$ ^{1,2}, $2n = 34$ ^{2-7,16,17,18}

11. Gametic chromosome number(s): $n = 17$ ⁸⁻¹³

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

13. Ploidy level:

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

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

16. Karyograms: Meiosis:⁸⁻¹³

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: