Species Datasheet

Datasheet No. A-403.054.001 **DBT-** [illegible]
(family.genus.species)

1. Taxon:

Species: *Tithonia diversifolia*(Hemsl.) A. Gray
Subspecies
Variety
Cultivar
Hybrid
Image file

2. Synonyms:*Helianthusquinquelobus*Sesse&Moc., *Mirasoliadiversifolia*Hemsl., *Tithoniadiversifolia* subsp. *diversifolia,T.diversifolia* var. *diversifolia,T.diversifolia* var. *glabriuscula*S.F.Blake, *Urbanisoltagetiflora* var. *diversifolius* (Hemsl.) Kuntze, *U.tagetiflora* var. *flavus*Kuntze, *U.tagetiflora* f. *grandiflorus*Kuntze, *U.tagetifolius* f. *grandiflorus*Kuntze

3. 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.
- Species: *T. diversifolia*(Hemsl.) A. Gray

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: CompositaeGiseke
Genus: *Tithonia* Desf. ex
Juss.Species: *T. diversifolia*(Hemsl.)
A. Gray

4. Distribution:

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

India: Karnataka, Kerala, Maharashtra, Meghalaya, Uttar Pradesh, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Shrub or undershrub. Common in ravine slopes, riverbanks and marshy wastelands etc.

8. Life Form: Chamaephytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value **Methodology**

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):2n= 30 [1,2], 2n=34 [3-7]

14. Gametic chromosome number(s):n=17[8-13]

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, 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 meiosis17II [13]

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level[14,15]

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