

Species Datasheet

Datasheet No. A-403.057.001
(family.genus.species)

DBT-1

1. Taxon:

Species: *Verbesina encelioides*(Cav.) Benth. & Hook. f.ex A. Gray

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Enceliaalbescens*A.Gray, *Verbesinaaustralis* Baker, *V. encelioides* subsp. *encelioides*, *V. microptera* (DC.) Herter, *V. scabra*Benth., *V. scabra* Phil., *Ximenesiaaustralis* Hook. & Arn. ex DC., *X. encelioides* Cav., *X. encelioides* var. *encelioides*, *X. encelioides* var. *exauriculata* (B.L.Rob. & Greenm.) F.C.Gates, *X. encelioides* var. *hortensis* DC., *X. encelioides* var. *oblongifolia* DC., *X. encelioides* var. *pachyptera* DC.

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: *Verbesina*L.
- Species: *V. encelioides*(Cav.) Benth. & Hook. f.ex A. Gray

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: Compositae Giseke
Genus: *Verbesina*L.
Species: *V. encelioides*(Cav.)Benth. & Hook. f.ex A. Gray

4. Distribution:

Global: Argentina, Australia, Bolivia, Brazil, Caribbean, Chile, Ecuador, Mexico, New Guinea, Paraguay, USA, Uruguay

India: Bihar, Delhi, Haryana, Karnataka, Madhya Pradesh, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herb.

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): $2n = 34$ ¹⁻⁹

14. Gametic chromosome number(s): $n = 17$ ^{3,8-12}

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

Image file

16. Ploidy level: Diploid¹⁻⁹

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 meiosis¹⁷¹¹⁹

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level¹³

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis;

Pollen stainability;Translocations etc.):Pollen stainability :93%⁹