

Genus Datasheet
DBT- Network Programme

Datasheet No. A-403.023
(family.Genus)

1. Genus:*Coreopsis* L.

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: *Coreopsis* L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: Compositae Giseke
Genus: *Coreopsis* L.

3. Species:

Global: 100

India: 3

4. Taxonomic riddles:

5. Distribution:

Global: Canada, China, Costa Rica, El Salvador, Guatemala, Honduras, India, South Africa, USA

India: Cultivated

6. Habit and Habitat: Herb.

7. Economic Importance: Garden Plant

8. DNA content range:

Methodology

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): $2n=24$ ¹⁻⁵, $2n=26$ ^{6,7}

11. Gametic chromosome number(s): $n=12$ ^{8,9}, $n=13$ ¹⁰

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ 1 chromosomes):

13. Ploidy level:

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

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

16. Karyograms: Meiosis: 8, 9, 10

17. Banding pattern(s):

18. Physical mapping of Chromosomes:GISH:

19. Phylogenetic relationship at:

Chromosomal level

DNA level¹²

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information:Chromosome number is not reported in the following taxa:

Coreopsis aristosa Michx.

Coreopsis tinctoria var. *tinctoria*.

Coreopsis tinctoria var. *atropurpurea* Hook.