

Genus Datasheet

Datasheet No. A-140.079

DBT- Network Programme

1. **Genus:** Clitoria L.

2. **Systematic position: APG; Bentham and Hooker:**

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus:Clitoria L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: LeguminosaeJuss.
Subordo: PapilionaceaeGiseke
Genus: Clitoria L.

3. **Species:**

In World:

In India: 7

4. **Taxonomic riddles:**

5. **Distribution:**

In World: Asia, Europe, India, Americas

In India: Konkan and Western Ghats of India.

6. **Habit and Habitat:** Herb

7.**Economic Importance:** Medicinal and ornamental values

8. DNA content range:Methodology:

4C DNA - (22.17-27.62) pg

Feulgen in situ Cytophotometry⁹

9. Basic chromosome number(s): $x = 8^1$

$$x = 7^1$$

10. Zygotic chromosome number (s): $2n = 12^{38}$

$$2n = 14^{1, 2, 3, 15, 21, 26}$$

$$2n = 15^{21}$$

$$2n = 16^{1-5, 9-25, 36}$$

$$2n = 22^{35}$$

$$2n = 24^{37}$$

11. Gametic chromosome number (s): $n = 8^{4,5, 6, 7, 11, 15, 21, 27, 28}$

$$n = 7^{3, 5, 6, 21}$$

$$n = 6^{21}$$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Ring chromosomes etc.):

13. Ploidy level: Diploid^{9, 14, 18, 25}

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

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

16. Cytogenetic mechanism (s) underlying evolution:

19. Karyograms; 1, 5, 23

Meiosis:⁵

20. Phylogenetic relationship at

Chromosomal level;

DNA level:

21. Linkage Map:

21. Any other information:

Species whose Chromosome numbers are yet to be found:

Clitoria annua J. Graham var. *emarginata* S.L. Yadav & P.B. Dhanke.

Clitoriagrahamii Benth

Clitoriagrahamii Benth var. *macrophylla* (Benth.) Kurz

Clitoriaternatea var. *ternatea*

Clitoriamariana L

Clitoriamacrophylla var. *macrophylla*