

# Genus Datasheet

Datasheet No. A-086.001  
(Family.Genus)

DBT- Network Programme

1. Genus: *Canna* L.

2. Systematic Position:  
APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Zingiberales Griseb.
- Family: Cannaceae Juss.
- Genus: *Canna* L.

Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Epigynae  
Ordo: Scitamineae  
Genus: *Canna* L.

3. Species:

**Global:** 12

**India:** 2

4. Taxonomic riddles: Yes<sup>12</sup>

5. Distribution:

**Global:** Andaman Island, Angola, Antigua-Barbuda, Argentina, Ascension, Australia, Azores, Bahamas, Belize, Benin, Bismarck Archipelago, Bolivia, Borneo, Brazil, Burma, Cambodia, Canary Island, Caribbean, Cape Verde, Caroline Island, Central African Republic, China, Colombia, Cook Island, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Equatorial Guinea, Ethiopia, Fiji, French Guiana, Gabon, Gambia, The Gilbert Island, Guatemala, Guinea, Gulf of Guinea Island, Guyana, Hainan, Haiti, Hawaii, Honduras, India, Jamaica, Japan, Jawa, Juan Fernández Island, Kenya, Laos, Leeward Island, Louisiana, Madagascar, Madeira, Malawi, Malaya, Mexico, Mozambique, Myanmar, Nepal, Nicaragua, Nigeria, Ogasawara-shoto, Panamá, Paraguay, Philippines, Portugal, Puerto Rico, Queensland, Santa Cruz Island, Senegal, Society Island, South Carolina, Southwest Caribbean, Spain, Sri Lanka, St. Helena, St. Kitts-Nevis, Suriname, Taiwan, Tanzania, Thailand, Togo, Tonga, Trinidad-Tobago, U.S.A., Uganda, Uruguay, Venezuela, Vietnam, Wallis-Futuna Island, Windward Island, Zaire, Zambia, Zimbabwe

**India:** Throughout India

**6. Habit and Habitat:** Rhizomatous herb. Grows in shady places to wet places, along riversides.

**7. Economic Importance:** Ornamental Plant

**8. DNA content range:**

$$4C=2.88\text{pg}^5$$

**Methodology:**

Feulgen microdensitometry<sup>5</sup>

**9. Basic chromosome number(s):**  $x=9^{12,20,24}$

**10. Zygotic chromosome number(s):**  $2n=18^{1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20}$

$$2n=27^{2,13,14,19,20,21,22}$$

$$2n=36^{5,8}$$

**11. Gametic chromosome number(s):**  $n=9^{5,6}$

**12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/ N chromosomes):** 1-2N-type chromosomes (median chromosomes with a secondary constriction in region<sup>12</sup>

**13. Ploidy level:** Diploid<sup>1,2</sup>

Triploid<sup>2,3,20,21,22</sup>

**14. Nature of polyploidy (auto, segmental, allo, autoallo):** Allopolyploid<sup>20</sup>

**15. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):**

**17. Banding pattern(s):**

**18. Physical mapping of chromosomes:**

**GISH:**

**19. Phylogenetic relationship at Chromosomal; DNA level: DNA level<sup>23</sup>**

**20. Cytogenetic mechanism(s) underlying evolution**

**21. Linkage map:**

**22. Any other information:** Very limited reports are available only for *Canna indica*, lacks detailed cytological data including meiotic data.