

Genus Datasheet

DatasheetNo. A-377.034
(Family.Genus)

DBT- Network Progr

1. Genus: *Rungia* Nees

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: LamialesBromhead
- Family: Acanthaceae Juss.
- Genus: *Rungia* Nees

Bentham and Hooker(1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Rungia* Nees

3. Species:

Global:106

India: 15

4. Taxonomic riddles: Yes¹⁴

5. Distribution:

Global: India, Myanmar, Sri Lanka,

India: North-East India, Rajasthan and Peninsular India

6. Habit and Habitat: Erect herb.

7. Economic Importance:

8. DNA content range:

Methodology:

2C

4C

9. Basic chromosome number(s):

10. Zygotic chromosome number (s): $2n=26^4$, $2n=30^5$, $2n=52^6$, $2n=20^{10}$, $2n=34^{11}$, $2n=36^{13}$

11. Gametic chromosome number (s): $n=8^1$, $n=13^{2,3,4}$, $n=15^5$, $n=26^{6,7,8,9}$, $n=10^{10,12}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytenechromosomes/ Neocentric chromosomes):

13. Ploidy level:

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

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

16. Karyograms:

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level

Chromosomal level^{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13}

20. Cytogenetic mechanism (s) underlying evolution:

22. Any other information: The use of embryological characters and its analysis for ascertaining the taxonomic alignment clearly indicates a very close relationship between the species and *Justicia procumbens*¹⁴

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