

Genus Datasheet
DBT- Network Programme

Datasheet No. A-403.032
(family.Genus)

1. Genus:*Guizotia* Cass.

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: *Guizotia* Cass.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: CompositaeGiseke
Genus: *Guizotia* Cass.

3. Species:

Global: 9

India: 1

4. Taxonomic riddles:^{20,21}

5. Distribution:

Global:Australia, Asia, China, Costa Rica, Ethiopia, India, New Zealand, South Africa,USA

India:Andhra Pradesh, Bihar, Maharashtra, Orissa, Sikkim, Uttar Pradesh, West Bengal

6. Habit and Habitat:Herbaceous

7.Economic Importance:Oil seed crop, Green manure

8. DNA content range: Methodology

2C (7.57 pg) ¹⁷Microdensitometer

9. Basic chromosome number(s): x=15¹⁷

10. Zygotic chromosome number(s):2n=30 ^{1-9,17,18},2n= 10, 21, 30, 60¹⁹

11. Gametic chromosome number(s):n=15 ^{6,7,10,18}

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

13. Ploidy level:Diploid ^{1-9,17,18}

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

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

16. Karyograms: ^{1,9}**Meiosis:**^{3,6,7,10,18}

17. Banding pattern(s):C-banding⁹

18. Physical mapping of chromosomes:GISH:

19. Phylogenetic relationship at:

Chromosomal levelDNA level²⁰⁻²²

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: