

Genus Data Sheet

Datasheet No. A-078.011
(Family.Genus)

DBT- Network Programme

1. Genus: *Belosynapsis* Hassk.

2. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Clade: Commelinids
- Order: Commelinales Mirb. ex Bercht. & J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Belosynapsis* Hassk.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Commelinaceae Mirb.
Genus: *Belosynapsis* Hassk.

3. Species:

Global: 6

India: 3

4. Taxonomic riddles:

5. Distribution:

Global: Tropical & Subtropical Asia to Southwestern Pacific

India: Western Ghats

6. Habit and Habitat: Herb, tropical moist forest, growing on rocks. *B. vivipara* is an epiphytic and grows on densely moss-covered trees.

7. Economic Importance: *B. kewensis* is cultivated in some European Gardens

8. DNA content range:

2C

4C

Methodology

9. Basic chromosome number(s):

10. Zygotic chromosome number(s): $2n=30^{2,3}52^{1,2,5,6}60^7$

11. Gametic chromosome number(s): $n=26^1$

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

20. Cytogenetic mechanism (s) underlying evolution: Hypo-aneuploidy²

21. Linkage map: