

Genus Datasheet

Datasheet No G-009.003

(Family.Genus)

DBT- Network Programme

1. **Genus:***Podocarpus*L'Hér. ex Pers.

2. Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Araucariales Gorozh.
- Family: Podocarpaceae Endl.
- Genus: *Podocarpus*L'Hér. ex Pers.

Bentham and Hooker (1862)

Kingdom: Plantae
Division:Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus:PodocarpeaeDumort.
Genus: *Podocarpus*L'Hér. ex Pers.

3. Species:

Global: 108

India:3

4. Taxonomic riddles:⁷

5. Distribution:

Global: Africa, Asia, Australia, Central and South America and several South Pacific islands

India:Andaman Islands, Himalayas, North East India

6. **Habit and Habitat:**Evergreenshrubs or trees, usually 25 meters tall, Evergreen broad- leaved forest

7.**Economic Importance:**Grown as garden trees, or trained into hedges, espaliers, or screens. Red, purple or bluish fleshy fruit of most species of *Podocarpus* are edible, raw or cooked into jams or pies, *Podocarpus* species is an important timber tree in several countries where it is common. Its excellent wood is used for house construction and carpentry and for making oars, spars, and masts of sailing vessels.

8. DNA content range:

2C (19.40 pg)⁸

Methodology

Flow cytometry⁸

9. Basic chromosome number(s): 17^4 , $19^{1,6}$, $19^{4,5}$

10. Zygotic chromosome number(s): $38^{1,6}$, 33^2 , $37, 37+7B$, (male) 38 (female) $38^{5,6}$

1. Gametic chromosome number(s): 17 (endosperm mitosis) 4,5 , 19 (endosperm mitosis) 4,5 , $18, 19^3$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/Neocentric chromosomes): XXY sex chromosome system, $7B$'s 3

13. Ploidy level: Diploid 1,2,3,4,5,6

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

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

16. Karyograms: 3,6

Meiosis: 3,7

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: