

# Genus Data Sheet

Datasheet No. A-098.010  
(family,genus,species)

DBT- Network Programme

1. Genus:*Fuirena*Rottb.

3. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Poales Small
- Family: Cyperaceae Juss.
- Genus: *Fuirena* Rottb

**Bentham and Hooker (1862)**

Kingdom: Plantae  
Division:Phanerogamia  
Class: Monocotyledones  
Series: Glumaceae  
Ordo: Cyperaceae Juss.  
Genus: *Fuirena* Rottb

3. Species:

Global:60

India: 11

4. Taxonomic riddles:

5. Distribution:

Global:India, Indonesia, Japan, Kenya, Korea, Afghanistan, Pakistan, Malaysia, Namibia,Sri Lanka and Nepal.

India:Peninsular India, Assam, Andhra Pradesh, Bihar,Himalaya, Madras, Gujarat, Madhya Pradesh, Maharashtra, Meghayala, Odisha and Punjab.

6. Habit and Habitat:Herb

7.Economic Importance:

8. DNA content range:

Methodology

2C: 4C:

9. Basic chromosome number(s): $x=18^8 19^7, 8^2 26^8$

10. Zygotic chromosome number(s): $2n=36^{1,4,6,7} 38^{1,2,3,4,5,6,7,10} 48^{11} 52^{1,4}$

**11. Gametic chromosome number(s):**  $n=18^{1,8}19^{1,3,8}26^{1,3,8}38^{6,8}$

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

**13. Ploidy level:** Diploid<sup>8</sup> Tetraploid<sup>6,8</sup>

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

**15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):** Aneuploidy<sup>8</sup>

**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:** Polyploidy<sup>7</sup>, Aneuploidy<sup>7,8</sup>, Structural chrom aberrations<sup>7</sup>

**21. Linkage map:**

**22. Any other information:** Five species have been done out of total Eight as per APG-IV.