

Species Datasheet

Datasheet No. A-061.083.002
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Renanthera imschootiana* Rolfe

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Renanthera papilio* King & Prain

3. Systematic Position:

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Vandeae

Subtribus: Sarcantheae

Genus: *Renanthera* Lour.

Species: *Renanthera imschootiana* Rolfe

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Vandeae
- Subtribe: Aeridinae
- Genus: *Renanthera* Lour.
- Species: *Renanthera imschootiana* Rolfe

4. Distribution:

Global: China, India, Vietnam

India: Arunachal Pradesh, Manipur, Mizoram, Nagaland

5. Indigenous/Exotic/Endemic; Cultivated/Wild: Indigenous

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Medium to large sized, warm to cool growing epiphyte herb

8.Life Form:Phanerophytes

9.Economic Importance:Cultivated ornamental, medicinal leaf paste used for skin diseases

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{1,7, 8, 9, 10, 11, 12, 13}$

13. Zygotic chromosome number(s): $2n=38^{1, 7, 10, 11, 13}$

14. Gametic chromosome number(s): $n=19^{1, 7, 8, 9, 12}$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

Image file

16.Ploidy level:Diploid $^{1,7, 8, 9, 10, 11, 12, 13}$

Image file

17.Agametoploidy:

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

19.Genomic formula:

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

21.Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

Image file

22. Banding pattern(s):

Image file

23.Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization:

Image file

24.Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis 19 II 8, 9, 12

Image file

27. Chromosome distribution at anaphase I: 19:19 segregation at A-I ¹²

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):