Species Datasheet

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Datasheet No. P-051.009.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Pleopeltis macrocarpa* (Bory ex Willd.) Kaulf.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

*Drynariamacrocarpa*Fée
Lepicystislanceolata (L.) Diels
Niphoboluslanceolatus (L.) Keyserl.
Phlebodiumlanceolatum (L.) J. Sm.
PleopeltislanceolataKaulf.
Pleopeltismacrocarpa var. *macrocarpa*
Polypodiumlanceolatum L.
*Polypodiummacrocarpum*Bory ex Willd.

3.Systematic Position:
Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Polypodiaceae J. Presl& C. Presl
- Subfamily: Polypodioideae B.K. Nayar
- Genus: *Pleopeltis* Humb. & Bonpl. ex Willd.
- Species: *Pleopeltis macrocarpa* (Bory ex Willd.) Kaulf.
- Subspecies:
- Variety:

4.Distribution:

Global: Frequent in the western half of Swaziland, occurring at altitudes ranging between 1 150 and 1 520 m. The species is widespread in sub-Saharan Africa and the western Indian Ocean region.

India: Northeast-Meghalaya, Madhya Pradesh- Pachmarhi Hills, Shevroy hills

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Epilithic or epiphytic, usually in deep shade in moist evergreen forests. Not edaphically bound, but in Swaziland the species appears to be restricted to granitic rocks.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):x=35[5, 13, 14, 15, 19, 20],37[21, 22, 23]

13. Zygotic chromosome number(s):2n=c.148[21, 22, 23]

14. Gametic chromosome number(s):n=35[5, 13, 14, 15, 19, 20] ,

70[6, 7] ,

c.210[8]

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes):

Image file

16.Ploidylevel: Diploid (sexual)[5, 13, 14, 15, 19, 20] ,

Tetraploid (sexual) [6, 7, 21, 22, 23] ,

12-ploid[8]

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 Diploid: 35II[5, 13, 14, 15, 19, 20] ,

Tetraploid: 70II[6, 7] ,

12-ploid: c.210II[8]

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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