

# Species Datasheet

-

Datasheet No. P-046.001.002  
(family.genus.species)

DBT- Network Programme

## 1.Taxon:

**Species:** *Nephrolepis cordifolia* (L.) C. Presl

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

*Aspidiumcordifolium* (L.) Sw.

*Aspidiumtuberosum* Bory ex Willd.

*Nephrodiumtuberosum* (Bory ex Willd.) Desv.

*Nephrolepiscordifolia* var. *tuberosa* (Bory ex Willd.) Baker

*Nephrolepisexaltata* var. *tuberosa* (Bory ex Willd.) Kuntze

*Polypodiumcordifolium* L.

## 3.Systematic Position:

### Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Nephrolepidaceae Pic. Serm.
- Subfamily:
- Genus: *Nephrolepis* Schott
- Species: *Nephrolepis cordifolia* (L.) C.Presl
- Subspecies:
- Variety:

## 4.Distribution:

**Global:** Native of tropical and subtropical regions of the world including Australia (north from north coast of NSW).

**India:** Throughout India

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

**6.Threat Status:**

**IUCN:**

**BSI:**

**7.Habit and Habitat:**Epiphytic, epilithic (on rock), or terrestrial in habit,typically grows in woodland areas. In its native Australia it occurs in rainforest or open forest in eastern Queensland and north eastern New South Wales.

**8.Life Form:**

**9.EconomicImportance:**Rhizome is antibacterial, used in cough, rheumatism, chest congestion, loss of appetite, pinnae antitussive, styptic, antifungal, used in coughs, wounds and for treating jaundice

**10. Probable Progenitor of:**

**11.DNA**

C-value	Methodology
---------	-------------

2C (13.64 pg) <sup>14</sup>	Flow cytometry <sup>14</sup>
-----------------------------	------------------------------

**12.Basic chromosome number(s):** $x=41$ <sup>1, 3, 4, 10, 12, 13, 15, 17, 18, 21, 22, 23, 24, 26, 27</sup>

**13. Zygotic chromosome number(s):** $2n=82$ <sup>1, 3, 21, 22, 23, 24,</sup>

c.82<sup>14</sup>

**14. Gametic chromosome number(s):** $n=41$ <sup>1, 4, 10, 12, 13, 15, 17, 18, 21, 22, 23, 24, 26, 27</sup>

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

Image file

**16.Ploidy level:**Diploid (sexual) <sup>1, 4, 10, 12, 13, 15, 17, 18, 21, 22, 23, 24, 26, 27</sup>

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** 41 II<sup>1</sup>, 4, 10, 12, 13, 15, 17, 18, 21, 22, 23, 24, 26, 27

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; Translocation etc.):**