

# Species Datasheet

Datasheet No. P-037.001.011  
(family.genus.species)

DBT- Network Programme

## 1.Taxon:

Species: *Asplenium cheilosorum* Kunze ex Mett.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

## 2. Synonyms:

## 3.Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Aspleniaceae Newman
- Subfamily:
- Genus: *Asplenium* L.
- Species: *Asplenium cheilosorum* Kunze ex Mett.
- Subspecies:
- Variety:

## 4.Distribution:

**Global:**China (Fujian, Guangdong, Guangxi, Guizhou, Hainan, Yunnan, Zhejiang), Taiwan, SE-Tibet, Yakushima Isl., Ryukyu Isl. (Amami-oshima, Okinawa), Myanmar , Nepal, Bhutan, Philippines, Sri Lanka, Vietnam, peninsular Malaysia (Cameron Highlands, Pahan), Borneo (Mt. Kinabalu, etc.),Thailand

**India:** NE-India, C-India, S-India, Meghalaya, Uttar Pradesh, Darjeeling

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

## 6.Threat Status:

**IUCN:**

**BSI:**

**7.Habit and Habitat:**

**8.Life Form:**

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

**C-value            Methodology**

**12.Basic chromosome number(s):** $x=36^{9, 10, 11, 86, 97, 137}$

**13. Zygotic chromosome number(s):** $2n=108^{9, 10, 11, 86, 97, 137, 117^{101, 102}}$

**14. Gametic chromosome number(s):** $n=108^{9, 10, 11, 97, 216^{11, 97, 39, 43, 47, 63, 72, 113, 116, 117, 124^{97, 117^{101, 102}}}$

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

Image file

**16.Ploidy level:**Triploid (apogamous) $^{9, 10, 11, 97, 101, 102}$

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** 16-celled sporangium  $2n = n' = 108$ , 36II+36I, 30II+48I, 41II+26I, 1III+28II+49I, 3III+40II+19I

8-celled sporangium  $2n = n' = 108$ , 108II

4-celled sporangium  $4n = n' = 216, 216 \pm 2$

Cleave-celled sporangium  $n = 39\text{II}, 43\text{II}, 47\text{II}, 63\text{II}, 72\text{II}, 113\text{II}, 116\text{II}, 117\text{II}, 124\text{II}$ <sup>97</sup> ,

117II (8-celled sporangium)<sup>101, 102</sup>

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.): Apogamous**<sup>9, 10, 11, 97, 101, 102</sup>