

## *In Vitro* study on *Cyclosorus interruptus* (Willd.) H. Ito, a medicinally Important Fern in Southern Western Ghats, India.

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*Pteridophytes* are the dominant land plants in the Jurassic and lower cretaceous period- ferns and fern allies constitute an important part of the plant kingdom and they are well flourish in the tropical, sub tropical and temperate forests. In the present study spores of *Cyclosorus interruptus* a medicinally important fern of Southern Western Ghats India were collected and cultured *in vitro* on different media, the spores germinated in (8-10days) and formed a filament of cells and this development was typically of vittaria type and the development Prothalli was of *Drynaria* type. But the influence of season on the spore generation revealed that high percentage (95%) of germination was from the spore collected during the month of March. Different basal media had been employed to analyze the effect of salt strength on spore germination. Among these, Knudson's c supplemented with 2% sucrose showed higher percentage of (90%) germination. After the successful establishment of the plant from spore culture, the ferns were transferred to Kodaikannal Botanical Garden (KBG), India. After attaining matured stage, the micro propagated ferns were established in the forest segments.

### **KEY WORDS:**

*In Vitro* study, Medicinal plant, germination, Southern Western Ghats, India.