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## The interaction between tall fescue and endophyte in severe environments

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Endophytes are the micro-organisms that are present in plants' intercellular spaces and each of them has symbiotic relationship with its host plant. In a narrow sense, endopytes refer to filamentous fungi which live inside rice plants. It has been known that endophyte-infected plants show enhanced resistance to multiple-stress, diseases and insects. One of endophyte-plant associations is Neotyphodium-tall fescue(Festuca arundinacea) one.

The purpose of this experiment is to understand the interaction between the endophyte and the plant by investigating the changes and phenomena of the endofyte-infected plant in depth which is exposed to severe environments.

Keywords: endophyte, tall fescue, severe environment