

**EVALUATION OF FUNGICIDAL PROPERTIES
OF SOME SELECTED PLANTS AGAINST
Fusarium moniliforme Sheldon IN CORN**

**Undergraduate Thesis
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ABSTRACT

ROTAIRO, ROSEMARIE GONZALES. Cavite State University, Indang, Cavite . March 2000. "Evaluation of Fungicidal Properties of Some Selected Plants Against *Fusarium moniliforme* Sheldon in Corn. Adviser: Dr. Adelaida E. Sangalang.

In vitro screening of 11 plant extracts for their fungicidal properties was done against *Fusarium moniliforme* .

Extracts from nine plants namely: *Vitex negundo*, *Lantana camara*, *Tagetes erecta*, *Curcuma longa*, *Allium sativum*, *Azidarachta indica*, *Gliricidia sepium*, *Tithonia diversifolia* and *Tinospora rumphii* proved active against the test fungi. They all inhibited the growth of *F. moniliforme in vitro*.

The extract of *A. sativum* was further assayed to test the activity at different dilutions. The concentrated crude extract of *A. sativum* was significantly more active than its diluted forms. However, the Lethal Concentration at LC₅₀ of *A. sativum* extracts was computed to be 0.1861. This means that as low as 18.61% of *A. sativum* extract could be lethal to *F. moniliforme*. Generally, the activity of the plant extracts decreased with time.

Results indicate that the plant extracts tested could be used to control the growth of *F. moniliforme* in corn.

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