SCREENING OF LOCAL SOIL FUNGI FOR ANTIBACTERIAL SUBSTANCES

A Thesis

Presented to

the Faculty of the Graduate School

University of San Carlos

In Partial Fulfillment

of the Requirements for the Degree

Master of Science in Biology

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by

Sr. Lucie, Maria Mersmann, SSpS

October, 1970

This Thesis attached hereto, entitled "SCREENING OF LOCAL SOIL FUNGI FOR ANTIBACTERIAL SUBSTANCES" prepared and submitted by Sr. Lucie, Maria Mersmann, SSpS, in partial fulfillment of the requirements for the degree of Master of Science in Biology, is hereby accepted.

Leticia G Cabrera, Ph.D.
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APPROVAL SHEET

IN PARTIAL FULFILLMENT of the requirements for the degree of Master of Science in Biology, this thesis entitled: "SCREENING OF LOCAL SOIL FUNGI FOR ANTIBACTERIAL SUBSTANCES" has been prepared and submitted by Sister Lucie, Maria Mersmann, SSpS, who is hereby recommended for oral examination.

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ACCEPTED, as Partial Fulfillment of the requirements for the degree of Master of Science in Biology.

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Sister Lucie, Maria Mersmann, SSpS

ABSTRACT

Twenty fungi belonging to the Ascomycetes and related Fungi Imperfecti were examined for their antibiotic effect on six species of bacteria. The results compiled in tables and illustrated by graphs show the presence of antibacterial substances in the case of ten fungi.

The fungi were isolated from twenty-seven soil samples collected between March 4 and August 15, 1970 in Cebu City and environs. Potato dextrose agar was used for keeping the pure stock cultures alive, while Czapek dox broth was the medium during the extracting procedure.

The extraction was accomplished by using ether as solvent. The plate diffusion test was utilized for getting qualitative results in terms of diffusability and strength of antibiotic compounds.

Morphological characteristics of fungal cultures growing on the mentioned media as well as macro- and micrographs are included in this paper to make further study on classification possible.

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