



Hunt Institute for Botanical Documentation
5th Floor, Hunt Library
Carnegie Mellon University
4909 Frew Street
Pittsburgh, PA 15213-3890
Telephone: 412-268-2434
Email: huntinst@andrew.cmu.edu
Web site: www.huntbotanical.org

The Hunt Institute is committed to making its collections accessible for research. We are pleased to offer this digitized item.

Usage guidelines

We have provided this low-resolution, digitized version for research purposes. To inquire about publishing any images from this item, please contact the Institute.

About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

UNIVERSITY OF CALIFORNIA
AGRICULTURAL EXPERIMENT STATION

CITRUS EXPERIMENT STATION
DEPARTMENT OF PLANT PATHOLOGY
RIVERSIDE, CALIFORNIA

March 10, 1960

Air Mail

Dr. W. W. Ray
Mycologist & Chairman
Department of Botany
The University of Nebraska
Lincoln 8, Nebraska

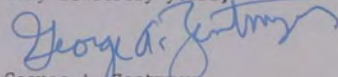
Dear Dr. Ray:

Regarding your letter inquiring about cultures of *Phytophthora* that produce sporangia readily on artificial media, I have no species of *Phytophthora* that produce sporangia readily on synthetic media. I am not sure whether you refer primarily to synthetic media in your requirements or not.

Some of the species of *Phytophthora* which we have here will produce sporangia fairly readily on material such as sterilized alfalfa stems, for instance. The primary species of *Phytophthora* with which I am working, *Phytophthora cinnamomi*, only produces sporangia when I prepare a non-sterile soil extract and then use this for adding inoculum of the fungus. Dr. Klotz in the Department here has two or three species of *Phytophthora* which produce sporangia on this sterilized alfalfa stem medium which I mentioned.

Please let me know if this type of fungus would do for your studies or if you need something which does produce sporangia in sterile synthetic culture media.

Very sincerely yours,



George A. Zentmyer
Plant Pathologist

GAZ:bl