

ABSTRACT

VARIABILITY OF THE YAM ANTHRACNOSE FUNGUS

(COLLETOTRICHUM GLOEOSPORIOIDES

PENZIG AND SACC.)

RAYMOND E. COLEMAN

Variability among five isolates of yam anthracnose was studied and compared with five other isolates of mango, papaya and avocado anthracnose. In vitro studies revealed significant differences in time to appressoria development, and sensitivity to benomyl. The production of teleomorphic structures were observed in vitro among three yam isolates and are described in detail.

Continuous and discontinuous variations were expressed among isolates but the level of variability was inadequate to identify isolates as possibly individual variants.

Lastly, I am most grateful to my mother, for instilling in me the ambition and discipline that was required to complete the project.