

Abstract

Fusarium species are important pathogens that cause a broad spectrum of infections including superficial infections in healthy people or disseminated infections in immunocompromised patients. Many of these infections have been associated with proteases secreted by fungi to degrade keratin, an important component of the skin and other human body organs. Some *Fusarium* species has been reported to cause necrosis after invade and colonize human organs like skin or lungs. Ischemia and abscess are complications associated with necrotic tissues due to the lack of oxygen in severe mycosis caused by ***Fusarium***. My research is focused in fungi of genera ***Fusarium*** that can grow and degrade proteins in anaerobic environments to compare finally proteases secreted in both anaerobic and aerobic conditions.