school of environmental sciences

The Research Seminar Presentation by

Abdurraouf Abaya

Will be held on

Wednesday March 2, 2016

At 10:10 am

ALEXANDER HALL 337

Title: **Control of Fusarium Head Blight of wheat (*Triticum aestivum*) caused by *Fusarium graminearum* using biological agents and disease resistance activators**

Abstract

Wheat is one of the most important crops in the world, and it is the primary source of human food and livestock feed. Cultivars of wheat are susceptible to the Fusarium Head Blight (FHB), caused by the fungal pathogen *Fusarium graminearum*, that is a devastating disease of wheat around the world. FHB reduces grain yields and causes a high risk of infection of grain with the mycotoxin deoxynivalenol (DON) that is a major health concern for humans and animals. A control method under investigation for this pathogen is biological agents and resistance activators. The objectives of the proposed research is to investigate the vigor of defense activators and antagonistic endophytic fungi that will be isolated from winter and spring wheat cultivars against *Fusarium graminearum* in controlled environment tests. Results arising from this research will provide information about the effect of endophytic fungi and resistance activators against Fusarium Head Blight. This new scientific information can help the wheat managers to better deal with FHB in Canada.

Everyone is welcome to attend

(This is a Research Proposal presentation by students in ENVS*6900)