

Colloquium speaker: Dr. Tamer Oraby (University of Texas Rio Grande Valley)

Title: Mathematical Models in Epidemiology

Abstract: Mathematical modeling of diseases provides answers to epidemiological questions about outbreaks; such as their potential to spread and become endemic, and the effect of different control measures on that spread and on the population (in case of animal diseases). It also explains human behavior towards some control measures like vaccination. In my presentation, I will talk about some of those questions and show how mathematical modeling supported with data has answered them.