



# NIMBioS

National Institute for Mathematical  
and Biological Synthesis

## **“Transmission and control of foodborne pathogens at preharvest”**

**Dr. Cristina Lanzas**

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**Univ. of Tennessee, Knoxville**

**Tuesday, February 8, 2011**

**3:30 p.m.\*, Room 403, Blount Hall, 1534 White Ave.**

*Foodborne diseases are a significant healthcare and economical burden. Most foodborne pathogens behave as commensals, harbored in the gastrointestinal tract of farm animals. Understanding the transmission of foodborne pathogens at the farm level is necessary to design effective interventions to improve pre-harvest food and environmental safety. In recent years, mathematical models of infection have been incorporated in the epidemiologist repertoire to gain a better understanding of foodborne pathogen ecology and to evaluate control strategies. Dr. Lanzas will discuss recent progress and challenges in modeling the dynamics of foodborne pathogens transmission at the farm level.*

*\*Join us for refreshments in the NIMBioS Lobby on the 4<sup>th</sup> floor at 3 p.m.*