

Applied and Computational Mathematics and Statistics Colloquium

Rebecca Doerge

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will give a lecture entitled:

Statistical Issues When Modeling RNA-Seq Data for Differential Expression

Thursday, November 18th, 2010

5:00 PM

Location: 117 Hayes-Healy Hall

Abstract:

This is an exciting and influential time for the field of Statistics in science. Technological advances in genetic, genomic, and the other 'omic sciences are providing large amounts of complex data that are presenting a number of challenges for the biological community. Many of these challenges are deeply rooted statistical issues that involve both experimental design and modeling. Focusing on next-generation sequencing technology we will introduce the technology and discuss the statistical issues that are involved in testing differential expression. Applications of next-generation sequencing for testing differential expression will be presented.