



JOHNS HOPKINS
BLOOMBERG
SCHOOL of PUBLIC HEALTH

Department of Biostatistics

BIOSTATISTICS SEMINAR

Statistical Analysis for Inferring the Timing of Gene Duplications

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Abstract:

Gene duplication is the key mechanism for evolutionary change. To infer the timing and nature of gene duplication, the 'data' used are the end result of various pipelines. In this talk, I will summarize how the 'data' are obtained, explore the shortcomings of analyses in the literature, and end with current work on overcoming these shortcomings. The interesting statistical problems are that the 'data' are maximum likelihood estimates, and that the biological process (saturation effects) present complications in data modeling.

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Room W2008 (Refreshments 12:00pm)

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