

For favour of posting

DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE  
THE UNIVERSITY OF HONG KONG

Seminar

**Professor Thomas MATHEW**

Department of Mathematics and Statistics  
University of Maryland Baltimore County  
USA

will give a talk

entitled

**THE STATISTICAL ASSESSMENT OF BIOEQUIVALENCE**

Abstract

The topic of bioequivalence deals with procedures for testing the equivalence of two drug products: typically, a generic drug and a brand name drug on the market. Bioequivalence testing consists of showing that the concentration of the active drug ingredient that enters the blood is similar for the two drugs. Area under the time-concentration curve, or the AUC, is typically used for this purpose, and the data are obtained based on cross-over designs. In the talk, I will introduce the bioequivalence problem using examples, and will give an overview of the various criteria that are used for bioequivalence testing. These include, average bioequivalence, variance bioequivalence, individual bioequivalence and population bioequivalence. Statistical methodology for testing the corresponding hypotheses will be discussed. The concept of multivariate bioequivalence will be briefly touched upon.

on

**Wednesday, March 17, 2010**

**2:00 p.m. – 3:00 p.m.**

at

**Room 524, Meng Wah Complex  
(behind the Chong Yuet Ming Amenities Centre)**

**Visitors Please Note that the University has limited parking space. If you are driving please call the Department at 2859 2466 for parking arrangement.**

All interested are welcome