



De: CRM crm@crm.umontreal.ca  
 Objet: \*\*\*AUJOURD'HUI\*\*\* : CSMQ = Jerry Lawless  
 Date: 28 octobre 2016 08:54  
 À: activites@CRM.UMontreal.CA

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COLLOQUE DES SCIENCES MATHÉMATIQUES DU QUÉBEC  
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DATE :  
 Le vendredi 28 octobre 2016 / Friday, October 28, 2016

HEURE / TIME :  
 15 h 30 - 16 h 30 / 3:30 p.m. - 4:30 p.m.

CONFERENCIER(S) / SPEAKER(S) :  
 Jerry Lawless (University of Waterloo)

TITRE / TITLE :  
 Efficient tests of covariate effects in two-phase failure time studies

LIEU / PLACE :  
 Room 1205, Burnside Hall, 805 Sherbrooke West

RESUME / ABSTRACT :  
 Two-phase studies are frequently used when observations on certain variables are expensive or difficult to obtain. One such situation is when a cohort exists for which certain variables have been measured (phase 1 data); then, a sub-sample of individuals is selected, and additional data are collected on them (phase 2). Efficiency for tests and estimators can be increased by basing the selection of phase 2 individuals on data collected at phase 1. For example, in large cohorts, expensive genomic measurements are often collected at phase 2, with oversampling of persons with “extreme” phenotypic responses. A second example is case-cohort or nested case-control studies involving times to rare events, where phase 2 oversamples persons who have experienced the event by a certain time. In this talk I will describe two-phase studies on failure times, present efficient methods for testing covariate effects. Some extensions to more complex outcomes and areas needing further development will be discussed.

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Responsables :  
 Olivier Collin (UQÀM)  
 Henri Darmon (Université McGill)  
 Dimitris Koukouloupoulos (Université de Montréal)  
 Iosif Polterovich (Université de Montréal)  
 David Stephens (Université McGill)  
 Hugh Thomas (UQÀM)

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