

**Graduate Seminar
University of Regina
Department of Mathematics & Statistics**

Speaker: Ting Zhang
University of Regina

Title: An Introduction to the Tumour Xenograft Model

Date: Friday, April 3, 2009

Time: 10:30 a.m.

Place: Math & Stats Lounge (CW 307.20)

Abstract

In cancer drug development, xenograft experiments (models) where mice are graft with human cancer cells are used to elucidate the mechanism of action efficacy of a promising compound. Demonstrated activity in these models is an important step to bring a promising treatment to human. Data from these experiments provide a basis to conduct clinical trials and to optimize their design. The maximum likelihood method based on the expectation/conditional maximization (ECM) algorithm to estimate the dose-response relationship while accounting for the informative censoring and the constraints of model parameters.