



## Dr. Duncan Thomas

Verna R. Richter Chair in Cancer Research,  
Norris Cancer Center  
Professor and Director of Biostatistics  
Division, Department of Preventive  
Medicine  
**University of Southern California**

# Two-phase family-based designs for next generation sequencing

**Friday**  
**November 2, 2012**  
**12:00 –1:00 p.m.**

The Hospital for Sick Children  
CDIU Multimedia Theatre  
Room 4132, 4th Floor, Elm Elevators  
555 University Avenue, Toronto, ON

Dr. Thomas is Professor of Biostatistics in the Department of Preventive Medicine, and Verna R. Richter Chair in Cancer Research at the University of Southern California Keck School of Medicine. He received his Ph.D. from McGill University in 1976. His primary research interest has been in the development of statistical methods for environmental and genetic epidemiology, with numerous collaborations in both areas. On the environmental side, he has been particularly active in radiation carcinogenesis and air pollution health effects research, notably as one of the senior investigators on the Southern California Children's Health Study and as a member of President Clinton's Advisory Committee on Human Radiation Experiments. On the genetic side, he is a coinvestigator in the NCI's Colon Cancer Family Registry, the Genetic Analysis Workshop, the ENDGAME consortium to develop methods for genome-wide association studies, and past President of the International Genetic Epidemiology Society. Dr. Thomas has numerous publications, including the textbooks *Statistical Methods in Genetic Epidemiology* (Oxford University Press, 2004) and *Statistical Methods in Environmental Epidemiology* (Oxford University Press, 2009). These three broad areas of interest make him uniquely qualified to address methodological challenges in studying gene-environment interaction.

Housed at the University of Toronto Dalla Lana School of Public Health, **CIHR STAGE** is a training program in genetic epidemiology and statistical genetics funded by the Canadian Institutes of Health Research through the Strategic Training Initiative in Health Research program. Seminars are sponsored by The Hospital for Sick Children, the Samuel Lunenfeld Research Institute of Mount Sinai Hospital, the Ontario Institute for Cancer Research, the Department of Statistics of the University of Toronto, the Ontario Cancer Institute of the University Health Network, and the CIHR Institute of Genetics.

**SEMINAR**  
International Speaker