



# **XXIII<sup>rd</sup> International Biometric Conference**

**Montréal, Québec, Canada**

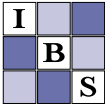
**July 16 – 21, 2006**



**This conference brings together statisticians and others interested in the development and application of statistical and mathematical methods for the biological sciences.**

## **Program**

**[www.ibc2006.org](http://www.ibc2006.org)**



**Sponsored by**  
**International Biometric Society**

The International Biometric Society is an international society for the advancement of biological science through the development of quantitative theories and the application, development and dissemination of effective mathematical and statistical techniques. The Society welcomes as members biologists, mathematicians, statisticians, and others interested in applying similar techniques.

**Hosted by**  
**McGill University**



**Organized by**  
**National Research Council of Canada (NRC)**



National Research  
Council Canada

Conseil national  
de recherches Canada

**The Conference is grateful for the support from the following organizations:**



# Conference Organization

## Organizing President

Geert Molenberghs                      Belgium                      Belgian Region (RBe)

## International Program Committee

<b>Chair:</b> Geert Verbeke	Belgium	Belgian Region (RBe)
Kaye Basford	Australia	Australasian Region (AR)
Urania Dafni	Greece	Eastern Mediterranean Region (EMR)
Ori Davidov	Israel	Eastern Mediterranean Region (EMR)
Clarice Demétrio	Brazil	Brazilian Region (RBras)
Chris Glasbey	UK	British Region (BR)
James Hanley	Canada	Eastern North American Region (ENAR)
Wesley Johnson	USA	Western North American Region (WNAR)
Xihong Lin	USA	Eastern North American Region (ENAR)
Sagary Nokoe	Ghana	Sub-Saharan African Network (SUSAN)
Vicente Nuñez-Anton	Spain	Spanish Region (REsp)
Iris Pigeot	Germany	German Region (DR)
Laura Pla	Venezuela	Central American-Caribbean Region (RCaC)
Louise Ryan	USA	Eastern North American Region (ENAR)
Toshiya Shun Sato	Japan	Japan Region (JR)
Claire Shanley	Executive Director	IBS

## Short Course Committee

<b>Chair:</b> Judith Goldberg	USA	Eastern North American Region (ENAR)
James Hanley	Canada	Eastern North American Region (ENAR)
Sagary Nokoe	Ghana	Sub-Saharan African Network (SUSAN)
Geert Verbeke	Belgium	Belgian Region (RBe)

## Local Organizing Committee

<b>Chair:</b> James Hanley	McGill University	Eastern North American Region (ENAR)
Michal Abrahamowicz	McGill University	
Gina Bravo	Université de Sherbrooke	
Yogendra Chaubey	Concordia University	
Thierry Duchesne	Université Laval	
Marc Fredette	HEC Montréal	
Khajak Ishak	McGill University	
Fabrice Larribe	Université du Québec à Montréal	
Peter Macdonald	McMaster University	
Brenda Macgibbon	Université du Québec à Montréal	
Marielle Olivier	McGill University	
Robert Platt	McGill University	
Marie-Pierre Sylvestre	McGill University	
Alain C. Vandal	McGill University	

## Conference Secretariat

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# Message from the IBS President and the Organizing President

Dear IBC attendees,  
Chers participants d'IBC,

We proudly welcome you to Montreal for the XXIIIrd International Biometric Conference and invite you to enjoy the scientific and social activities, to honor members and to celebrate our Society's 60th anniversary. Jim Hanley and his Local Arrangements Committee have set up a socially and scientifically welcoming venue, adorned with splendid social events, Wednesday excursions and formal and informal opportunities to meet and interact. As documented in the program book and abstract CD, Geert Verbeke and his International Program Committee have developed a broad and deep ensemble of invited sessions. All who submitted abstracts have provided the building blocks for a truly excellent roster of contributed paper sessions and posters. We thank Judith Goldberg for a superb short course program and Emmanuel Lesaffre and Jocelyne Feine for putting together a fine Satellite Meeting on "Statistical and Epidemiological Methods for Oral Health Research." We are grateful for the support offered by Pierre Lamoureux and Canada's National Research Council and by our Executive Director, Claire Shanley, and the International Business Office.

We look forward to renewing international friendships and professional contacts and making new ones that will be with us when we attend the XXIV<sup>th</sup> IBC in Dublin, Ireland in 2008.

Bienvenue à tous!

Welcome to all!



Thomas A. Louis  
*President*  
*International Biometrics Society*

Geert Molenberghs  
*Organizing President*

# Message from the Chairs, Local Organizing Committee and International Program Committee

Dear Guest,  
Cher invité,

Welcome to the XXIIIrd International Biometric Conference, the biennial meeting of the International Biometric Society. The scientific program consists of a slate of 14 invited sessions, 12 topic contributed sessions, 58 contributed sessions and 3 poster sessions. In addition, 4 short courses are being offered and a satellite workshop has been organized.

These would not have been possible without the joint efforts of the various committees, Canada's National Research Council, the IBS International Business office as well as the current and former IBS presidents, Tom Louis and Geert Molenberghs, respectively. In particular we would like to thank Alain Vandal, who has been responsible for the final program schedule.

The meeting takes place at McGill University in Montreal, in the north-east corner of the Eastern North American Region (ENAR) of the International Biometric Society (IBS). We are confident that you will find the university and the city to be a reflection of the international spirit and character of our Society. We hope that the friendly and relaxed setting will enhance not just the scientific dialogue, but also the social and cultural exchanges that characterize this biennial conference.

As your hosts, we would like you to make the most of the week, and we will be happy to help you accomplish this. We encourage you to get to know each other, to take part in the social activities, and to enjoy our vibrant city, province and country.

A very warm welcome to you.



Geert Verbeke  
*on behalf of the*  
*International Program Committee*

Jim Hanley  
*on behalf of the*  
*Local Organizing Committee*

**We are proud to host the XXIII<sup>rd</sup> International Biometric Conference and we welcome delegates to Montréal**



# McGill

Department of Epidemiology,  
Biostatistics and Occupational Health

Department of  
Mathematics and Statistics



JOHNS HOPKINS  
BLOOMBERG  
SCHOOL *of* PUBLIC HEALTH

**The Department of Biostatistics  
congratulates the IBS on its 60<sup>th</sup> anniversary**

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# Opening Ceremony

**Monday July 17**

08:00 – 09:45

Room: Leacock 132

**08:00 Welcome to McGill and Montreal**

Richard W. Pound,  
Chancellor, McGill University

Professor Anthony C. Masi,  
Provost, McGill University

Professor Christian Léger,  
Le Centre de recherches mathématiques  
(Université de Montréal)

**08:15 Welcome to IBC2006**

Geert Molenberghs, Organizing President  
IBC2006

**08:30 Presidential Address**

*“Our future as history”*  
Thomas A. Louis, President



## IBS Business Meeting Schedule

ROOM/LOCATION	SATURDAY July 15	SUNDAY July 16	MONDAY July 17	TUESDAY July 18	THURSDAY July 20	FRIDAY July 21
Arts Bldg-160	IBS Executive Committee Meeting (12:00-18:00)	Conference Advisory Committee (12:00-14:00)	IBS Office	IBS Office	Executive Committee (09:00-12:30)	Executive Committee (12:30-14:00)
Room 403 SSMU		General Officers Nom. Committee (12:00-14:00)	Awards Fund Committee (12:00-13:00)	Club of Presidents (08:00-09:00)		
Room 433A SSMU		1.Education Committee (10:00-12:00) 2.Finance Committee (12:00-14:00) 3.Biometric Associate Editors (14:30-16:30)	Strategic Planning Committee (12:00-13:30)	1.Editorial Advisory Committee (09:00-12:00) 2.Biometric Bulletin Correspondents (12:30-13:30)		1.Joint LOCs (09:00-10:30) 2. JOINT IPCs and Short Courses (10:30-12:00)
Lev Buckman Room SSMU			Regional/National Group Officers Meeting (17:00-18:00)		IBS Council Meeting (13:30-17:00)	
Thomson House			Regional/National Group Officers Reception (18:15-19:15)			
Gerts (TBD)				IBS Editors' Reception (19:00-20:00)		



# Satellite Meeting Schedule

Faculty of Dentistry, Strathcona Building, McGill University

## Statistical and Epidemiological Methods for Oral Health Research

### Friday 14 July

08:00 - 09:00	Registration and Coffee
09:00 - 09:30	Introduction to the Satellite Meeting Jocelyne Feine (Montreal, Canada) and Emmanuel Lesaffre (Leuven, Belgium)
09:30 - 11:00	Analysis of Clustered Data – Part 1 Melissa Begg (Columbia, US)
11:00 - 11:30	Coffee Break
11:30 - 12:30	Analysis of Clustered Data – Part 2 Melissa Begg (Columbia, US)
12:30 - 13:30	Lunch
13:30 - 15:00	Survival Analysis in Oral Health Data – Part 1 Niels Keiding (Copenhagen, Denmark) and Thomas Gerds (Freiburg, Germany)
15:00 - 15:15	Health Break
15:15 - 16:15	Survival Analysis in Oral Health Data – Part 2 Niels Keiding (Copenhagen, Denmark) and Thomas Gerds (Freiburg, Germany)
16:15 - 16:30	Coffee Break
16:30 - 17:30	Disentangling age, period and cohort effects in studies of the elderly? – Part 1 Gary Slade (Adelaide, Australia)

### Saturday 15 July

08:00 - 10:00	Disentangling age, period and cohort effects in studies of the elderly? – Part 2 Gary Slade (Adelaide, Australia)
10:00 - 10:30	Coffee Break
10:30 - 12:00	Measurement Error and Misclassification: Effect, Assessment and Correction – Part 1 Helmut Küchenhoff (Munich, Germany)
12:00 - 13:00	Lunch
13:00 - 14:00	Measurement Error and Misclassification: Effect, Assessment and Correction – Part 2 Helmut Küchenhoff (Munich, Germany)
14:00 - 14:15	Health Break
14:15 - 15:45	Statistical Genetics for Dental Researchers: Genetic association studies – Part 1 Amy Anderson (North Carolina, US)
15:45 - 16:00	Coffee Break
16:00 - 17:00	Statistical Genetics for Dental Researchers: Genetic association studies – Part 2 Amy Anderson (North Carolina, US)
17:00 - 18:00	Farewell Drink

# Scientific Program – Week-at-a-Glance

## Saturday 15 July

14:00 - 18:00 Registration Opens

## Sunday 16 July

10:00 - 20:00 Registration

### Short Courses (All courses will be in the Leacock Building)

13:30 - 17:30 SC1 Statistical Methods for Evaluating Tests and Biomarkers in Medicine (Room 14)

08:30 - 12:30 SC2 Analysis of Health Surveys: Sample Survey Methods for Biostatisticians (Room 14)

08:30 - 17:30 SC3 Hierarchical Bayes Methods and Software for Data Analysis (Room 232)

08:30 - 17:30 SC4 Model-based Geostatistics (Room 15)

17:00 - 19:00 Welcoming Reception

## Monday 17 July

07:30 - 17:30 Registration

08:00 - 09:45 Opening Ceremony and Presidential Address

09:45 Exhibits Open

09:45 - 10:15 Refreshment Break (*Courtesy of Stata Corp.*)/Exhibits and Poster Session 1

10:30 Accompanying Persons' Tourist Information Session (Room Arts 150)

### Parallel Sessions:

10:15 - 12:00 Invited\*, Topic Contributed and 4 Contributed

12:00 - 13:00 Lunch [onsite] – cafeteria at the Student Union Building  
(*sponsored by University of Wisconsin*), Exhibits and Poster Session 1

13:00 - 14:45 Invited\*, Topic Contributed and 4 Contributed

14:45 - 15:15 Refreshment Break/Exhibits and Poster Session 1

15:15 - 17:00 Invited\*, Topic Contributed and 4 Contributed

17:15 - 18:15 “*Exploring Roads to Successful Publishing*”: A Face to Face Conversation with the Editors

## Tuesday 18 July

07:30 - 17:30 Registration/Information Desk

### Parallel Sessions:

08:00 - 09:45 Invited\*, Topic Contributed and 4 Contributed

09:45 - 10:15 Refreshment Break/Exhibits and Poster Session 2

10:15 - 12:00 Invited\*, Topic Contributed and 4 Contributed

12:00 - 13:00 Lunch [onsite] – cafeteria at the Student Union Building, Exhibits and Poster Session 2

13:00 - 14:45 Invited\*, Topic Contributed and 4 Contributed

14:45 - 15:15 Refreshment Break/Exhibits and Poster Session 2

15:15 - 17:00 Invited\*, Topic Contributed and 4 Contributed

17:30 IBS 60<sup>th</sup> Anniversary Lecture: Stephen Stigler

# Scientific Program – Week-at-a-Glance

## Wednesday 19 July

All Day

Social Events and Tours – Offsite

Registration Desk and Exhibition are closed

## Thursday 20 July

07:30 - 17:30 Registration/Information Desk

### Parallel Sessions:

08:00 - 09:45 Invited\*, Topic Contributed and 4 Contributed

09:45 - 10:15 Refreshment Break/Exhibits and Poster Session 3

10:15 - 12:00 Invited\*, Topic Contributed and 4 Contributed

12:00 - 13:00 Lunch [onsite] – cafeteria at the Student Union Building, Exhibits and Poster Session 3

13:00 - 14:45 Invited\*, Topic Contributed and 4 Contributed

14:45 - 15:00 Refreshment Break/Exhibits and Poster Session 3

15:00 - 16:45 Invited\*, Topic Contributed and 4 Contributed

17:30

### Conference Dinner

Bus departure for Sucrerie de la Montagne from McGill University

(Dinner ticket required)

## Friday 21 July

07:30 - 15:00 Registration/Information Desk

### Parallel Sessions:

08:00 - 09:45 Invited\*, Topic Contributed and 4 Contributed

09:45 - 10:15 Refreshment Break/Exhibits

10:15 - 12:00 Invited\*, Topic Contributed and 4 Contributed

12:00 - 13:00 Lunch [onsite] – cafeteria at the Student Union Building, and Exhibits

13:00 Exhibits Close

13:00 - 14:45 Invited\*, Topic Contributed and 4 Contributed

15:00 - 16:00 Closing Ceremony

\* Invited Sessions sponsored by Novartis Pharmaceuticals, University of Pennsylvania and Harvard University

\*\* Topic Contributed Sessions sponsored by University of Washington

# Scientific Program Information

## Speaker Preview Room

Leacock Building, Room 112

All projections will be done by dedicated computers, using either PowerPoint or Acrobat Reader in a Windows environment. It will not be possible to use your own laptop computer as a source for projecting your presentation. A few computers will be available in the Speaker Preview Room to preview your presentation before submitting it to the technician for uploading to the master computer used for the Conference.

In order to have presentations transferred to the master computer, those presenting on Monday, Tuesday, Thursday or Friday must bring their files to the technicians in the Leacock Building, Room 112 at the latest by 16:00 on the day prior to their presentation. Because the site will be closed on Wednesday, July 19, those presenting on Thursday must do so by 16:00 on Tuesday.

Files may be brought to the technicians in any portable form such as floppy disc, CD, USB memory device. Files prepared using Mac software/hardware cannot be guaranteed to be operational.

## Poster Sessions

Ballroom of Student Union (SSMU) Building

There will be three separate poster sessions, one on Monday (the 100 series), one on Tuesday (the 200 series) and one on Thursday (the 300 series). There is no poster session on Friday.

Posters may be mounted on the morning of the day they have been scheduled for presentation beginning at 07:30. They must be removed by 17:00 that same day. Posters have been grouped according to topics and your poster has been assigned a specific “poster number” that corresponds to a specific portion of a poster board.

### Example

---

Poster Number MP2.125 =  
Monday, Poster Session, Topic Category 2,  
Poster Board Number 125

---

The daily list of poster session titles and assigned posters may be found in the section of this program entitled “Posters”.

Your poster is to be displayed for the full day. In order to ensure that those who wish to discuss it with you have a chance to do so, it is highly recommended that you be at your poster during each of the two scheduled refreshment breaks **and it is required that you be there during the noon hour between 12:00 and 13:00.**

### Key to Rooms

**LEA** = Leacock

**WA** = West Arts

**SSMU** = Student Union Building

# Scientific Program

Please note that the printed scientific program on the following pages has been revised to reflect some but not all of the program changes made up until the time this printed program was produced. Thus it does not necessarily correspond exactly to the author index or to the CD-ROM of abstracts.

Please use the Program Changes Addendum to amend your program accordingly.

# Scientific Program – Program Synopsis

	<b>Saturday July 15</b>	<b>Sunday July 16</b>	<b>Monday July 17</b>	<b>Tuesday July 18</b>
<b>MORNING</b>	<b>Registration</b> 14:00 – 18:00	<b>Registration</b> 10:00 – 20:00	<b>Registration</b> 07:30 – 17:30	<b>Registration</b> 07:30 – 17:30
			<b>Exhibition</b> 09:45 – 17:00	<b>Exhibition</b> 09:45 – 17:00
			<b>Opening Ceremony and Presidential Address</b> 08:00 – 09:45      Room LEA 132	<b>Invited Session</b> 08:00 – 09:45      Room LEA 132 T1    Adjusting for Non-Compliance in Clinical Trials
		<b>Short Courses</b> 08:30 – 12:30 Room LEA 14 SC2    Analysis of Health Surveys: Sample Survey Methods for Biostatisticians  08:30 – 17:30 Room LEA 232 SC3    Hierarchical Bayes Methods and Software for Data Analysis  08:30 – 17:30 Room LEA 15 SC4    Model-based Geostatistics		<b>Topic Contributed Session</b> 08:00 – 09:45      Room LEA 026 T2    Genomics Data Analysis in Pharmaceutical Research
				<b>Contributed Sessions</b> 08:00 – 09:45 T3    Mixture Modelling                      WA 125 T4    Diagnostic and Screening Tests        LEA 232 T5    Quantitative Methods in Agriculture    WA 120 T6    Epidemiological Methods                LEA 219
			<b>Refreshment Break</b> 09:45 – 10:15      Room SSMU	<b>Refreshment Break</b> 09:45 – 10:15      Room SSMU
			<b>Invited Session</b> 10:15 – 12:00      Room LEA 132 M1    Sensitivity Analysis in Practice	<b>Invited Session</b> 10:15 – 12:00      Room LEA 132 T7    Threshold Regression and First Hitting Time Models
			<b>Topic Contributed Session</b> 10:15 – 12:00      Room LEA 026 M2    Developments in Spatial and Syndromic Health Surveillance	<b>Topic Contributed Session</b> 10:15 – 12:00      Room LEA 026 T8    Recent Advances in Functional and Longitudinal Data Analysis
			<b>Contributed Sessions</b> 10:15 – 12:00 M3    Latent Variable Methods                WA 125 M4    Survival Analysis I                        LEA 232 M5    Ecological Research                      WA 120 M6    Clinical Trials I                          LEA 219	<b>Contributed Sessions</b> 10:15 – 12:00 T9    Medical Surveillance and Monitoring                                WA 125 T10    Pattern Recognition                        LEA 232 T11    Causal Inference                          WA 120 T12    Clinical Trials II                          LEA 219

# Scientific Program – Program Synopsis

	<b>Saturday July 15</b>	<b>Sunday July 16</b>	<b>Monday July 17</b>	<b>Tuesday July 18</b>	
<b>AFTERNOON</b>			<b>Lunch / Exhibits / Posters</b> 12:00 – 13:00 <b>Poster Session 1</b> MP1 Methods for Correlated Data MP2 Clinical Research and Basic Medical Science MP3 Public Health MP4 Clinical Trials MP5 Diagnostic and Screening Tests MP6 Epidemiological Research MP7 Health Services Research and Health Economics MP8 Infectious Diseases	<b>Lunch / Exhibits / Posters</b> 12:00 – 13:00 <b>Poster Session 2</b> TP1 Quantitative Methods in Agriculture TP2 Ecological Research, Environmental Research: Wildlife Forestry TP3 Forestry Fishery Wildlife TP4 Genomics, Proteomics and Microarray Data TP5 Genetics TP6 Miscellaneous	
		<b>Short Course</b> 13:30 – 17:30 Room LEA 14 SC1 Statistical Methods for Evaluating Tests and Biomarkers in Medicine	<b>Invited Session</b> 13:00 – 14:45 Room LEA 132 M7 Biological Process Models for Data in Space and Time	<b>Invited Session</b> 13:00 – 14:45 Room LEA 132 T13 New Development in Statistical Methods for Incomplete Data with Complex Observation Process	
			<b>Topic Contributed Session</b> 13:00 – 14:45 Room LEA 026 M8 Handling Covariates Measured with Error	<b>Topic Contributed Session</b> 13:00 – 14:45 Room LEA 026 T14 JABES Journal Showcase Session	
			<b>Contributed Sessions</b> 13:00 – 14:45 pm M9 Computational Methods WA 125 M10 Advances in Regression Methods LEA 232 M11 Pharmaceutical Applications WA 120 M12 Mixed Effects Modelling LEA 219	<b>Contributed Sessions</b> 13:00 – 14:45 T15 Spatial Modelling II WA 125 T16 Survival Analysis II LEA 232 T17 Field Trial Design WA 120 T18 Microarray Data I LEA 219	
			<b>Refreshment Break / Exhibits</b> 14:45 – 15:15	<b>Refreshment Break / Exhibits</b> 14:45 – 15:15	
			<b>Invited Session</b> 15:15 – 17:00 Room LEA 132 M13 Statistics in Genomics and Proteomics	<b>Invited Session</b> 15:15 – 17:00 Room LEA 132 T19 Statistics in Dentistry: Where Complexities Meet Each Other	
			<b>Topic Contributed Session</b> 15:15 – 17:00 Room LEA 026 M14 Diagnostic and Screening Tests	<b>Topic Contributed Session</b> 15:15 – 17:00 Room LEA 026 T20 Functional Data Analysis	
			<b>Welcoming Reception</b> 17:00 – 19:00	<b>Contributed Sessions</b> 15:15 – 17:00 M15 Meta-Analysis I WA 125 M16 Missing Data Methods LEA 232 M17 Spatial Modelling I WA 120 M18 Experimental Design LEA 219	<b>Contributed Sessions</b> 15:15 – 17:00 T21 Nonparametric Methods WA 125 T22 Dose Finding and Dose-Response Models LEA 232 T23 Estimation Methods for Correlated Data WA 120 T24 Genomics and Proteomics LEA 219
				<i>"Exploring Roads to Successful Publishing":</i> A Face to Face Conversation with the Editors 17:15 – 18:15 Room LEA 232	<b>IBS 60th Anniversary Lecture</b> 17:30 Room LEA 132 Speaker: Stephen Stigler

# Scientific Program – Program Synopsis

	<b>Wednesday July 19</b>	<b>Thursday July 20</b>	<b>Friday July 21</b>
<b>MORNING</b>	<b>Registration - closed</b>	<b>Registration</b> 07:30 – 17:30	<b>Registration</b> 07:30 – 15:00
	<b>Exhibition - closed</b>	Exhibition 09:45 – 17:00	<b>Exhibition</b> 09:45 – 13:00
	<b>Social Events and Tours -</b> Offsite All Day	<b>Invited Session</b> 08:00 – 09:45                      Room LEA 132 TH1    Statistics in Veterinary Public Health	<b>Invited Session</b> 08:00 – 09:45                      Room LEA 132 F1    Infectious Diseases: Analysis of Data and Models
		<b>Topic Contributed Session</b> 08:00 – 09:45                      Room LEA 026 TH2    Surrogate Endpoints: Wishful Thinking or Reality?	
		<b>Contributed Sessions</b> 08:00 – 09:45 TH3    Model Uncertainty and Diagnostics                      WA 125 TH4    Multiple Testing    LEA 232 TH5    Epidemiological Research I                                      WA 120 TH6    Methods for Longitudinal Data                                      LEA 219	<b>Contributed Sessions</b> 08:00 – 09:45 F2    Microarray Data III    LEA 026 F3    Robustness, Sensitivity and Influence    WA 125 F4    Health Policy and Health Services                                      LEA 232 F5    Joint Longitudinal and Survival Models    WA 120 F6    Functional Data Analysis    LEA 219
		<b>Refreshment Break</b> 09:45 – 10:15                      Room SSMU	<b>Refreshment Break</b> 09:45 – 10:15                      Room SSMU
		<b>Invited Session</b> 10:15 – 12:00                      Room LEA 132 TH7    History and Evolution of Resource Inventories in Forestry, Fisheries and Wildlife	<b>Invited Session</b> 10:15 – 12:00                      Room LEA 132 F7    Statistical Analysis of Array-CGH Experiment Data
		<b>Topic Contributed Session</b> 10:15 – 12:00                      Room LEA 026 TH8    Conflicts of Interest in Biostatistical Work	
		<b>Contributed Sessions</b> 10:15 – 12:00 TH9    Markov and Semi-Markov Models                                      WA 125 TH10    Methods for Correlated Data    LEA 232 TH11    Latent Variables Methods in Health Research                      WA 120 TH12    Quantitative Methods in Genetics                                      LEA 219	<b>Contributed Sessions</b> 10:15 – 12:00 F8    Adaptive Designs in Clinical Trials                                      LEA 026 F9    Meta-Analysis II    WA 125 F10    Measurement Error    LEA 232 F11    Categorical Data    WA 120 F12    Multivariate Survival Analysis    LEA 219



# Scientific Program – Program Synopsis

	<b>Wednesday July 19</b>	<b>Thursday July 20</b>	<b>Friday July 21</b>
<b>AFTERNOON</b>		<b>Lunch / Exhibits / Posters</b> 12:00 – 13:00 <b>Poster Session 3</b> THP1 Methods for Categorical Data THP2 Causal Inference THP3 Clustering and Classification THP4 Epidemiological Methods THP5 Experimental Design THP6 Model Selection, Diagnostics, Robustness and Sensitivity THP7 Advances in Regression Methods THP8 Spatial Modelling THP9 Survival Analysis	<b>Lunch / Exhibits</b> 12:00 – 13:00 Exhibits close at 13:00
		<b>Invited Session</b> 13:00 – 14:45 Room LEA 132 TH13 Modelling of Covariance Structures in Longitudinal Studies	<b>Invited Session</b> 13:00 – 14:45 Room LEA 132 F13 Innovative Bayesian Computation for Biometrical Applications
		<b>Topic Contributed Session</b> 13:00 – 14:45 Room LEA 026 TH14 Biometrics Journal Showcase Session	<b>Topic Contributed Session</b> 13:00 – 14:45 Room LEA 026 F14 A Practicum on Interval Censoring
		<b>Contributed Sessions</b> 13:00 – 14:45 TH15 Environment Research WA 125 TH16 Infectious Diseases LEA 232 TH17 Bioinformatics WA 120 TH18 Clinical Trials III LEA 219	<b>Contributed Sessions</b> 13:00 – 14:45 F15 Epidemiological Research II WA 125 F16 Diagnostic and Screening Tests II LEA 232 F17 Population Genetics WA 120 F18 Clustering and Classification LEA 219
		<b>Refreshment Break / Exhibits</b> 14:45 – 15:00 ( <i>Notice change of time</i> )	
		<b>Invited Session</b> 15:00 – 16:45 Room LEA 132 TH19 Validation Process of Results in Biomedical Research Centres	<b>Closing Ceremony</b> 15:00 Room LEA 132
		<b>Topic Contributed Session</b> 15:00 – 16:45 Room LEA 026 TH20 Model Selection and Goodness-of-Fit Tests for Longitudinal Data	
		<b>Contributed Sessions</b> 15:00 – 16:45 TH21 Capture/Recapture Methods WA 125 TH22 Survival Analysis III LEA 232 TH23 Adaptive and Sequential Methods WA 120 TH24 Microarray Data II LEA 219	

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>M1</b>	<b>Sensitivity Analysis In Practice</b>	<b>M2</b>	<b>Developments In Spatial And Syndromic Health Surveillance</b>
<b>Organizer:</b>	<b>Mike Kenward</b>	<b>Organizer:</b>	<b>Andrew Lawson</b>
<b>Chair:</b>	<b>Mike Kenward</b>	<b>Chair:</b>	<b>Andrew Lawson</b>
	<b>Room LEA132</b>		<b>Room LEA026</b>
<b>10:15</b>	M1.1 Sensitivity Analysis for Informatively Missing Data in Meta-Analysis <b>I. White</b> , <i>Institute of Public Health</i>	<b>10:15</b>	M2.1 Reliable Public Health Surveillance <b>M. Frisé</b> n, <i>Göteborg University</i>
<b>10:45</b>	M1.2 Sensitivity Analysis of Randomized Trials with Coarsened Outcomes: A Case Study <b>D. Scharfstein</b> , <i>Johns Hopkins Bloomberg School of Public Health</i>	<b>10:40</b>	M2.2 Metrics for Evaluating Early Detection Methods <b>K. Kleinman</b> , <i>Harvard Medical School and Harvard Pilgrim Health Care</i>
<b>11:15</b>	M1.3 Is Multiple Imputation Safe for Everyday Practice? <b>J. Carlin</b> , <i>Royal Children's Hospital</i>	<b>11:05</b>	M2.3 Population Spatial Mobility: Modeling and Evaluating the Impact on Outbreak Detection <b>D. Buckeridge</b> , <i>McGill University</i>
<b>11:45</b>	<b>J. Carpenter (Discussant)</b> <i>London School of Hygiene &amp; Tropical Medicine</i>	<b>11:30</b>	M2.4 Semiparametric Smoothing for Disease Map Surveillance <b>H. Zhou</b> , <i>University of South Carolina</i>

## CONTRIBUTED SESSIONS

	<b>M3 Latent Variable Methods</b>	<b>M4 Survival Analysis I</b>	<b>M5 Ecological Research</b>	<b>M6 Clinical Trials I</b>
	<b>Chair: M. Pepe</b> <b>Room WA125</b>	<b>Chair: M. Fredette</b> <b>Room LEA232</b>	<b>Chair: S. Lin</b> <b>Room WA120</b>	<b>Chair: G. McLachlan</b> <b>Room LEA219</b>
<b>10:15</b>	M3.1 Latent Trajectory Modelling of Multiple Binary Data <b>K.J. Beath, Macquarie University</b>	M4.1 Empirical Likelihood Inference for Censored Median Regression with Weighted Hazard Functions <b>Y. Zhao, Georgia State University</b>	M5.1 Not All Who Wander are Lost: Detecting Migration Patterns of Wild Rats in New Zealand Using Genetic Distance Measures <b>S.D. Miller, University of Auckland</b>	M6.1 Preference-Based Analysis of Treatment Acceptability and Effect in Randomised Trials <b>S.D. Walter, McMaster University</b>
<b>10:30</b>	M3.2 Assessment of the Diagnostic Tests by Gee and Latent Class Modeling <b>R. Burgut, Cukurova University</b>	M4.2 Cox Regression Analysis in Presence of Collinearity: An application to Assessment of Health Risks Associated with Occupational Radiation Exposure <b>X. Xue, Albert Einstein College of Medicine</b>	M5.2 Survival and Cumulative Reproduction in Female Red Deer <b>K. Moyes, University of Kent</b>	M6.2 Designing Clinical Trials to Reduce Subjects' Inconvenience and to Allow Flexible Sampling <b>O. Volkov, Queen Mary University of London</b>
<b>10:45</b>	M3.3 A Comparison of Statistical Methods for the Analysis of Binary Repeated Measures Data <b>E. Masaoud, University of Prince Edward Island</b>	M4.3 A New Semiparametric Estimation Method for the Accelerated Failure Time Mixture Cure Model <b>J. Zhang, Memorial University of Newfoundland</b>	M5.3 Zero-Inflated Regression for Modeling Species Abundance in Relation to Habitat: A Bayesian Approach <b>M.A. Rodríguez, Université du Québec à Trois-Rivières</b>	M6.3 Genetic Randomization as a Prerequisite for Survival Comparison between Allogeneic Stem Cell Transplantation and Conservative Drug Treatment <b>M. Pfirrmann, Gesellschaft fuer Informationsverarbeitung und Statistik in der Medizin e.V</b>
<b>11:00</b>	M3.4 Using Latent Class Model for Evaluating the Performance of Diagnostic Tests in Absence of a Gold Standard: A Simulation Study <b>E.A. Kanik, Mersin University</b>	M4.4 Constructing Multivariate Prognostic Expression Profiles for Survival Endpoints <b>D.R. Peterson, University of Rochester</b>	M5.4 Bayesian Modelling with Informative Priors for Ecological Applications <b>S. Low Choy, Queensland University of Technology</b>	M6.4 The Importance of Baseline Data in Clinical Trials H.C.M. van der Knaap, Unilever Research & Development Vlaardingeng
<b>11:15</b>	M3.5 Genetic Association in Case-Control Studies - A Latent Variable Method <b>T. Wang, Medical College of Wisconsin</b>	M4.5 Delineating the Effects of Misspecification in a Lifetime Censored Regression Model <b>M.S. Hossain, University of Windsor</b>	M5.5 Direct Methods for Computing Perturbation Analyses, with Application to the Long-Lived Perennial Orchid <i>Himantoglossum Hircinum</i> <b>D. Miller, University of Kent</b>	M6.5 Analysis of Stratified Multi-centre Trials with Small Centre Sizes, <b>R. Pickering, University of Southampton</b>
<b>11:30</b>	M3.6 Fuzzy P-Values and Permutation Tests for Genetic Linkage <b>E.A. Thompson, University of Washington</b>	M4.6 Using the Log-normal Distribution to Model Survival Data <b>A. Salter, School of Population Health and Clinical Practice, University of Adelaide</b>	M5.6 A Probabilistic Approach to the Estimation of the Magnitude of Stochastic Factors and the Strength of Species Interactions in Community Dynamics <b>C.M. Mutshinda, University of Helsinki</b>	M6.6 Developing Individualized Efficacy Measures for Clinical Trials <b>D.A. Schoenfeld, Massachusetts General Hospital</b>
<b>11:45</b>	M3.7 Modeling Asymmetric Bivariate Ordered Categorical Data Using a Generalization of Gumbel's Bivariate Logistic Distribution <b>M. Salehi, Tehran University of Medical Sciences</b>		M5.7 Fisher's Alpha Index of Biodiversity: 1943 – 2005 <b>G.P.H. Styan, McGill University</b>	

12:00

Lunch / Exhibits / Poster Session I

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>M7</b>	<b>Biological Process Models For Data In Space And Time</b> <b>Organizer:</b> Byron J.T. Morgan and Clarice Demetrio <b>Chair:</b> Byron J.T. Morgan <b>Room:</b> LEA132	<b>M8</b>	<b>Handling Covariates Measured With Error</b> <b>Organizer:</b> Els Goetghebeur <b>Chair:</b> Els Goetghebeur <b>Room:</b> LEA026
<b>13:00</b>	M7.1 Use of Monte Carlo Particle Filters to Fit and Compare Models for the Dynamics of Wild Animal Populations <b>L. Thomas</b> , <i>University of St. Andrews</i>	<b>13:00</b>	M8.1 Advances in Measurement Error Methodology Related to Nutrition <b>L.S. Freedman</b> , <i>Gertner Institute for Epidemiology</i>
<b>13:30</b>	M7.2 Wildlife Population Modelling: Existing and New Methods <b>P. Besbeas</b> , <i>University of Kent</i>	<b>13:30</b>	M8.2 Survival Analysis with Mismeasured Covariates <b>Y. Li.</b> , <i>Harvard School of Public Health</i>
<b>14:00</b>	M7.3 Monitoring of Biological Processes in Time and Space <b>C. Demetrio</b> , <i>ESALQ/USP</i>	<b>14:00</b>	M8.3 Correcting for Measurement Error in Compliance-adjusted Analyses of Randomized Clinical Trials <b>S. Vansteelandt</b> , <i>Ghent University</i>
<b>14:30</b>	<b>P. Brown (Discussant)</b> <i>University of Toronto</i>	<b>14:30</b>	<b>M. Davidian (Discussant)</b> <i>North Carolina State University</i>

## CONTRIBUTED SESSIONS

<b>M9 Computational Methods</b> <b>Chair: J. Quackenbush</b> <b>Room WA125</b>	<b>M10 Advances In Regression Methods</b> <b>Chair: G.P.H. Styan</b> <b>Room LEA232</b>	<b>M11 Pharmaceutical Applications</b> <b>Chair: C. Quantin</b> <b>Room WA120</b>	<b>M12 Mixed Effects Modelling</b> <b>Chair: R.M. Pickering</b> <b>Room LEA219</b>
<b>13:00</b> M9.1 Selection of Artificial Neural Network Models for Survival Data <b>F. Ambrogi</b> , <i>Istituto Nazionale per lo Studio e la Cura dei Tumori</i>	M10.1 A Comparison of Classification and Regression Trees (CART), Logistic Regression, Generalized Additive Models, and Multivariate Adaptive Regression Splines (MARS) for Predicting AMI Mortality <b>P.C. Austin</b> , <i>Institute for Clinical Evaluative Sciences</i>	M11.1 A General Technique for Setting Specification Limits in Stability Studies <b>J. Wroughton</b> , <i>University of Nebraska-Lincoln</i>	M12.1 Type I and Type II Error under Random-Effects Misspecification in Generalized Linear Mixed Models <b>S. Litière</b> , <i>Hasselt University, Center for Statistics</i>
<b>13:15</b> M9.2 Using the r-th Order Univariate Hermite Distributions to Analyze Count Data Sets. Some Applications in Agriculture <b>P. Puig</b> , <i>Universitat Autònoma de Barcelona</i>	M10.2 Constraint Maximum Likelihood Estimation of Relative Risks in a Binomial Regression Model <b>J. Wellmann</b> , <i>University of Muenster</i>	M11.2 Calibrating the Concentration from a Serial Dilution Process <b>J.J.Z. Liao</b> , <i>Merck Research Laboratories</i>	M12.2 Multidimensional P-spline Mixed Models: A Computationally Efficient Method <b>M. Durban</b> , <i>Universidad Carlos III de Madrid</i>
<b>13:30</b> M9.3 Predicting Functional Independence After Stroke: Logistic Regression Versus Random Forests <b>I.R. König</b> , <i>Universität zu Lübeck</i>	M10.3 Statistical Analysis of Olfactometer Data <b>I. Ricard</b> , <i>Ecole Polytechnique Fédérale de Lausanne</i>	M11.3 Smoothing Techniques for Pharmacokinetic and Pharmacodynamic Profiles (with Conservation of the AUC) <b>N.M. Khutoryansky</b> , <i>Novo Nordisk</i>	M12.3 Modelling Variances with Random Effects in Non Linear Mixed Models with an Example in Growth Curve Analysis <b>J.L. Foulley</b> , <i>INRA, Quantitative &amp; Applied Genetics</i>
<b>13:45</b> M9.4 PRIM-RPCA: A Novel Recursive Bump Hunting Strategy for High Dimensional Data <b>J-E. Dazard</b> , <i>Case Western Reserve University</i>	M10.4 Poisson Regression when Response Variable Contains Extra Adjustment Error <b>R. Song</b> , <i>Centers for Disease Control and Prevention</i>	M11.4 In-Study Validation Methods for Biomolecular Screening Assays <b>B.J. Eastwood</b> , <i>Eli Lilly &amp; Company</i>	M12.4 Mixed-PLS Models to Predict Genotype x Environment Interaction <b>I. Dieng</b> , <i>Centre d'étude régional pour l'amélioration de l'adaptation à la sécheresse</i>
<b>14:00</b> M9.5 A Recursive Partitioning Procedure to Explore Short Term Effects of Weather on Health <b>R. Miglio</b> , <i>University of Bologna</i>	M10.5 Segmented Regression: Some Methods and Case Studies <b>F. Potter</b> , <i>AgResearch Limited</i>	M11.5 Statistical Estimation of Drug-Receptor Model Parameters; Comparing the Performances of Traditional Methods with a Nonlinear Least Square Method <b>Y. Aoki</b> , <i>Teijin Pharma Limited</i>	M12.5 Modeling for Extra-regression Variability in Generalized Linear Mixed Models <b>M.E. Nja</b> , <i>Cross River University of Technology</i>
<b>14:15</b> M9.6 Hurricane Track Prediction: A Density-based Combining Model <b>P. Agati</b> , <i>University of Bologna</i>	M10.6 Semiparametric Transformation for Non-linear Regression Model <b>M. Ito</b> , <i>Astellas Pharma Inc.</i>	M11.6 A New Approach of Diurnal Variation Analysis of Intraocular Pressure in Normal-Tension Glaucoma Using Circular Nonlinear Mixed Effect Model <b>H. Suganami</b> , <i>Tokyo University of Science</i>	M12.6 Modelling the Random Effects Covariance Matrix in the Generalized Additive Mixed Model <b>E. Tan</b> , <i>University of Manchester</i>
<b>14:30</b> M9.7 Biometrics Signal Processing Using FPGA <b>V. Shukla</b> , <i>Auckland University of Technology</i>	M10.7 How to Identify Statistically Significant among Several Putative, Inter-Correlated Interactions? <b>M. Abrahamowicz</b> , <i>McGill University and Montreal General Hospital</i>	M12.7 Nonlinear Mixed Effect Modelling for Improving Site-Specific Prediction of Dominant Height Growth of Eucalyptus Globulus Plantations <b>Y. Wang</b> , <i>University of Melbourne</i>	

14:45

Refreshment Break / Exhibits

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>M13</b>	<b>Statistics In Genomics and Proteomics</b> <b>Organizer:</b> Susmita Datta <b>Chair:</b> Susmita Datta <b>Room</b> LEA132	<b>M14</b>	<b>Diagnostic and Screening Tests</b> <b>Organizer:</b> Nandini Dendukuri <b>Chair:</b> Stephen Walter <b>Room</b> LEA026
<b>15:15</b>	M13.1 Extracting Meaning from High-Dimensional Expression Data <b>J. Quackenbush</b> , <i>Dana-Farber Cancer Institute</i>	<b>15:15</b>	M14.1 ROC Methodology: An Overview of the Last 50 Years <b>J.A. Hanley</b> , <i>McGill University</i>
<b>15:30</b>	M13.2 Bayesian Analysis of Multifactorial Gene Expression Designs, and Identification of Gene Pathway Signatures <b>M. West</b> , <i>Duke University</i>	<b>15:30</b>	M14.2 Meta-Analysis of Diagnostic Test Performance <b>P. Macaskill</b> , <i>University of Sydney</i>
<b>15:45</b>	M13.3 Rank Aggregation of Putative microRNA Targets <b>S. Lin</b> , <i>Ohio State University</i>	<b>15:45</b>	M14.3 Statistical Test Evaluation in the Absence of a Gold Standard <b>A. Hadgu</b> , <i>Centers for Disease Control and Prevention</i>
<b>16:15</b>	M13.4 Some Issues Associated with Testing for Gene Differential Expression <b>G. McLachlan</b> , <i>University of Queensland</i>	<b>16:00</b>	M14.4 Evaluation of a Diagnostic Test: Fundamentals <b>O.S. Miettinen</b> , <i>McGill University</i>
<b>16:45</b>	<b>S. Datta (Discussant)</b> <i>University of Georgia</i>	<b>16:15</b>	<b>C. Begg (Discussant)</b> <i>Memorial Sloan-Kettering Cancer Center</i>
		<b>16:35</b>	<b>Floor Discussion</b>

**“Exploring Roads to Successful Publishing”: A Face to Face Conversation with the Editors**

**Organizer:** Marie Davidian

**Chair:** Marie Davidian

**17:15 – 18:15** Room LEA 232

## CONTRIBUTED SESSIONS

	<b>M15 Meta-Analysis I</b> <b>Chair: M. Davidian</b> <b>Room WA125</b>	<b>M16 Missing Data Methods</b> <b>Chair: I. White</b> <b>Room LEA232</b>	<b>M17 Spatial Modelling I</b> <b>Chair: S. Sturtz</b> <b>Room WA120</b>	<b>M18 Experimental Design</b> <b>Chair: L. Billard</b> <b>Room LEA219</b>
<b>15:15</b>	M15.1 Methods for Combining Individual Patient Data and Aggregate Data in Evidence Synthesis <b>R.D. Riley</b> , <i>University of Leicester</i>	M16.1 Analysing Longitudinal Quality Of Life Data with Missing Data due to Disease Progression and Death <b>S. Le Cessie</b> , <i>Leiden University Medical Center</i>	M17.1 Detection of Geographic Clusters of Events <b>R.J. Rosychuk</b> , <i>University of Alberta</i>	M18.1 Bayesian Optimal Design for the Exponential Family Single Path Change Point Problem <b>J. Atherton</b> , <i>McGill University</i>
<b>15:30</b>	M15.2 Correlations in Multivariate Meta-Analyses: What Associations are Being Measured? <b>K. Ishak</b> , <i>McGill University</i>	M16.2 Indirect Missingness Mechanisms in a Selection Model <b>H. Thijs</b> , <i>Hasselt University</i>	M17.2 A Spatio-Temporal Susceptible-Infected Model for Longitudinal Binary Data <b>P.E. Brown</b> , <i>Cancer Care Ontario</i>	M18.2 A Planning Tool for Logistic Two-phase Studies <b>W. Schill</b> , <i>Bremen Institute for Prevention Research and Social Medicine</i>
<b>15:45</b>	M15.3 Confidence Intervals and P-values for Meta Analysis with Publication Bias <b>M.D. Henmi</b> , <i>University of Warwick</i>	M16.3 Robust Likelihood-based Analysis of Longitudinal Data with Missing Values <b>R. Little</b> , <i>University of Michigan</i>	M17.3 Bayesian Modelling of Disease Rates <b>E. Amiri</b> , <i>Imam Khomeini International University</i>	M18.3 Randomized Discontinuation Trials with Binary Responses: Design and Analysis <b>V. Fedorov</b> , <i>GlaxoSmithKline</i>
<b>16:00</b>	M15.4 One-Stage Parametric Meta-Analysis of Time-to-Event Outcomes Using Individual Patient Data <b>F. Siannis</b> , <i>MRC Biostatistics Unit</i>	M16.4 Dynamic Linear Models for Informatively Censored Longitudinal Data <b>D.M. Farewell</b> , <i>Cardiff University</i>	M17.4 Semiparametric Composite Likelihood Inference in Spatial Generalized Linear Mixed Models <b>T.V. Apanasovich</b> , <i>Cornell University</i>	M18.4 Restricted Randomization-Based Inference in Randomized Controlled Trials <b>T. Hasegawa</b> , <i>Shionogi &amp; Co. Ltd</i>
<b>16:15</b>	M15.5 Meta-analysis and the Reversed Theorem of the Means <b>M.D.deB.Edwardes</b> , <i>Royal Victoria Hospital and McGill University</i>	M16.5 Analysis of Experiments with a One-Way Design in the Presence of Censored Data <b>L.J. Young</b> , <i>University of Florida</i>	M17.5 Behaviour of a Correlation Coefficient Estimator for Misaligned Data in Spatial Context <b>N. Desassis</b> , <i>INRA</i>	M18.5 How to Make Inference from Experiments Conducted on Populations with Different Disease Determinants <b>S.D. Mark</b> , <i>University of Colorado Health Sciences Center</i>
<b>16:30</b>	M15.6 An Asymptotic Correction for the Egger Test in Meta-Analysis <b>C. Lozada-Can</b> , <i>University of Warwick</i>	M16.6 Maximum Likelihood Computation for Retrospective Sampling and Missing Data Problems <b>C.J. Wild</b> , <i>University of Auckland</i>	M17.6 A Spatial Smoothing Technique in Field Experiments <b>C.T. Jose</b> , <i>Central Plantation Crops Research Institute</i>	M18.6 A-optimal Block Designs for 2*2 Factorial Experiments with 00 Censored <b>A. Gerami</b> , <i>Tehran University</i>
<b>16:45</b>	M15.7 Detecting Outliers in Meta Analysis Using Likelihood Functions as Functions <b>M. Brimacombe</b> , <i>New Jersey Medical School UMDNJ</i>	M16.7 Methods for Handling Covariate Data Missing by Design in Prognostic Studies <b>R. Sutradhar</b> , <i>Samuel Lunenfeld Research Institute, University of Toronto</i>	M17.7 GIS Modelling of the Distribution of Mosquito/Larvae Repellant Plant Species in Kenya for Conservation Purpose <b>F.W. Kahora</b> , <i>University of Nairobi Plant Science &amp; Crop</i>	M18.7 Optimal Designs for Logistic Regression with a First Order Linear Predictor <b>K.G. Russell</b> , <i>University of Wollongong</i>

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>T1</b>	<b>Adjusting For Non-Compliance In Clinical Trials</b>	<b>T2</b>	<b>Genomic Data Analysis In Pharmaceutical Research</b>
<b>Organizer:</b>	<b>Stijn Vansteelandt</b>	<b>Organizer:</b>	<b>Luc Bijmens</b>
<b>Chair:</b>	<b>Stijn Vansteelandt</b>	<b>Chair:</b>	<b>Luc Bijmens</b>
<b>Room:</b>	<b>LEA132</b>	<b>Room:</b>	<b>LEA026</b>
<b>08:00</b>	T1.1 Semi-Parametric Structural Proportional Hazards Models for the Effect of Non-Compliance in an HIV Prevention Trial <b>E. Goetghebeur</b> , <i>Ghent University, Belgium and Harvard School of Public Health</i>	<b>8:00</b>	T2.1 Short Biological Introduction to Microarray Data <b>H.W.H. Göhlmann</b> , <i>Janssen Pharmaceutica</i>
<b>08:30</b>	T1.2 Estimation of Treatment Effects in Randomized Trials with Noncompliance and a Dichotomous Outcome <b>O. Bembom</b> , <i>University of California at Berkeley</i>	<b>8:25</b>	T2.2 A Method to Boost Power of Small Sample Microarray Experiments by Borrowing Strength Across Genes <b>D. Amaratunga</b> , <i>Johnson &amp; Johnson PRD</i>
<b>09:00</b>	T1.3 Looking for a Few Good Mediators: Causal Analyses of Multiple Mediation Factors in Randomized Trials with Structural Mean Models <b>T. Ten Have</b> , <i>University of Pennsylvania School of Medicine</i>	<b>8:50</b>	T2.3 Testing and Evaluation of Gene Expression Data as Surrogate Biomarkers in Pre-clinical Experiments <b>Z. Shkedy</b> , <i>Universiteit Hasselt</i>
<b>09:30</b>	<b>C. Frangakis (Discussant)</b> <i>Johns Hopkins</i>	<b>9:15</b>	T2.4 Interpreting Microarray Experiments Using Functional Genomics <b>N. Raghavan</b> , <i>Johnson &amp; Johnson PRD</i>



## CONTRIBUTED SESSIONS

<b>T3 Mixture Modelling</b>  <b>Chair: J. Lawless</b> <b>Room WA125</b>	<b>T4 Diagnostic And Screening Tests I</b>  <b>Chair: T. Duchesne</b> <b>Room LEA232</b>	<b>T5 Quantitative Methods in Agriculture</b>  <b>Chair: P. Macdonald</b> <b>Room WA120</b>	<b>T6 Epidemiological Methods</b>  <b>Chair: G.A. Whitmore</b> <b>Room LEA219</b>
<b>08:00</b> T3.1 Multivariate Mixture Models to Describe Longitudinal Patterns of Frailty in American Seniors <b>J. Connor, Carnegie Mellon University</b>	T4.1 Evaluating the Predictiveness of a Marker <b>M. Sullivan Pepe, University of Washington</b>	T5.1 Comparison of the Abundance of Non-target Species in Field Trials for Genetically Modified Varieties - A Confidence Interval Approach in the Generalized Linear Model <b>F. Schaarschmidt, University of Hannover</b>	T6.1 Estimating the Risk of Secondary Transmission of vCJD: A Hidden Markov Model Approach <b>M. Chadeau-Hyam, London School of Hygiene and Tropical Medicine</b>
<b>08:15</b> T3.2 A New Variant of the EM-Algorithm for Population Pharmacokinetic Analysis <b>P. Schlattmann, Charité Universitätsmedizin Berlin</b>	T4.2 Nonparametric Estimation of Time-dependent ROC Curves <b>L. Antolini, Istituto Nazionale per lo Studio e la Cura dei Tumori di Milano</b>	T5.2 Some Hiccups in Statistical Analysis of Soil Fertility Data <b>P.M. Njuho, University of KwaZulu-Natal</b>	T6.2 Mathematical Modelling of Within-field Propagation of a Disease and its Insect Vector <b>J. Vaillant, Université des Antilles-Guyane</b>
<b>08:30</b> T3.3 A Simple Procedure for Fitting Two-component Normal Mixture to a Given Data Set <b>A. Hussein, University of Windsor</b>	T4.3 Maximum Likelihood and Bayesian Estimation in Latent Class Models for Evaluation of Several Conditionally Dependent Diagnostic Tests <b>H. Stryhn, Atlantic Veterinary College</b>	T5.3 The Analysis of Multi-environment Trials in Crop Breeding Programs under Differing Models for Genetic Variance <b>A.M. Kelly, Qld Dept of Primary Industries and Fisheries</b>	T6.3 Robustness of Prevalence Estimates Derived from Misclassified Data from Administrative Databases <b>M. Ladouceur, McGill University</b>
<b>08:45</b> T3.4 On Mixture Models for Detecting Differentially Expressed Genes in Microarrays Data <b>C. Delmas, INRA</b>	T4.4 Evaluation of Multi-reader Permutation Procedures to Compare the Areas under Two ROC Curves <b>H.E. Rockette, University of Pittsburgh</b>	T5.4 Women and Men Choosing their Preferred Maize Varieties: Modelling Variety Ranks on Criteria Rankings <b>E. Obudho, University of Nairobi</b>	T6.4 Estimation of Gap-Time Distribution with Recurrent Event Data under an Informative Monitoring Period <b>A. Adekpedjou, University of South Carolina</b>
<b>09:00</b> T3.5 Bayesian Mixture Models for Analysis of Time Series of Satellite Imagery: Monitoring Water Quality Measures <b>C. L. Alston, Queensland University of Technology</b>	T4.5 Recent Developments in the Dorfman-Berbaum-Metz (DBM) Procedure for Multireader ROC Study Analysis <b>S.L. Hillis, Iowa City VA Medical Center</b>	T5.5 Examination of Some Variance Components of N-Alkane Estimated Intake and Digestibility in Cattle Grazing on Kikuyu (Pennisetum Clandestium) Pasture <b>B. Kachigunda, Midlands State University</b>	T6.5 Gradients and Odds Ratios <b>J.W. Drane, University of South Carolina</b>
<b>09:15</b> T3.6 Rejection Sampling for Mixture Models <b>H. Dai, University of Oxford</b>	T4.6 Multiple Imputation for the Comparison of Two Screening Tests in Two-Phase Alzheimer Studies <b>O. Harel, University of Connecticut</b>	T5.6 Non-Linear Models for Growth Curve of Nigeria Local Chickens <b>S.O. Peters, University of Agriculture</b>	T6.6 Some Often Forgotten Issues in Statistics Applied to Epidemiology <b>Ch.E. Minder, University of Berne</b>
<b>09:30</b> T3.7 Estimation of Selective Pressures using Mixture Models <b>D.A.J. Ryan, University of Prince Edward Island</b>	T4.7 Design, Ethical and Statistical Challenges when Studying the Performance of New Screening Tests for Cervical Cancer <b>M.-H. Mayrand, McGill University</b>	T5.7 Function Analysis of the Lactation Curve of White Fulani Cows <b>M.O. Ozoje, University of Agriculture</b>	T6.7 Testing for Additive Gene-Environment Interaction <b>F. Chen, Nanjing Medical University</b>
<b>09:45 Refreshment Break / Exhibits</b>			

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>T7</b>	<b>Threshold Regression And First Hitting Time Models</b>	<b>T8</b>	<b>Recent Advances In Functional And Longitudinal Data Analysis</b>
	<b>Organizer: Mei-Ling Ting Lee</b>		<b>Organizers: Jeffrey S. Morris and Richard Runze Li</b>
	<b>Chair: Mei-Ling Ting Lee</b>		<b>Chair: Jeffrey S. Morris</b>
	<b>Room: LEA132</b>		<b>Room: LEA026</b>
<b>10:15</b>	T7.1 What Hides Behind the Data? <b>O. Aalen</b> , <i>University of Oslo</i>	<b>10:15</b>	T8.1 Bayesian Hierarchical Spatially Correlated Functional Data Analysis with Application to Colon Carcinogenesis <b>V. Baladandayuthpani</b> , <i>University of Texas</i>
<b>10:45</b>	T7.2 Threshold Regression in Medicine, Biology and Health: A Review of Concepts, Theory, Methods and Applications <b>G.A. Whitmore</b> , <i>McGill University</i>	<b>10:45</b>	T8.2 Quadratic Inference Functions for Mixed Effects Models in Longitudinal Data Analysis <b>A. Qu</b> , <i>Oregon State University</i>
<b>11:15</b>	T7.3 On a Class of Simple Lifetime Regression Models, Multiple Time Scales and First-Hitting Time Models <b>T. Duchesne</b> , <i>Université Laval</i>	<b>11:15</b>	T8.3 Modeling Functional/Longitudinal Dynamic Systems with Applications to Long-Term HIV Dynamics <b>H. Wu</b> , <i>University of Rochester</i>
<b>11:45</b>	<b>D. Oakes (Discussant)</b> <i>University of Rochester</i>	<b>11:45</b>	<b>Floor Discussion</b>

## CONTRIBUTED SESSIONS

	<b>T9 Medical Surveillance And Monitoring</b> <b>Chair: T. Ten Have</b> <b>Room WA125</b>	<b>T10 Pattern Recognition</b> <b>Chair: A. Ciampi</b> <b>Room LEA232</b>	<b>T11 Causal Inference</b> <b>Chair: H. Kuechenhoff</b> <b>Room WA120</b>	<b>T12 Clinical Trials II</b> <b>Chair: H. Rockette</b> <b>Room LEA219</b>
<b>10:15</b>	T9.1 Composite Tests Using Matrix Pooling: Minimizing Costs, Maximizing Results <b>B. Hedt, Harvard School of Public Health</b>	T10.1 Iris Segmentation in Human Eye Images <b>A. Basit, EME College</b>	T11.1 More Realistic Assumptions for Controlling Confounding in Observational Studies of Time-Varying Exposures <b>M.M. Joffe, University of Pennsylvania</b>	T12.1 Simultaneously Optimizing Dose and Schedule of a New Cytotoxic Agent <b>T.M. Braun, University of Michigan</b>
<b>10:30</b>	T9.2 Optimized Frequency of Post-Therapeutic Follow-Up Visits <b>T. Filleron, Centre Regional de Lutte Contre le Cancer Val D'Aurelle-Paul Lamarque</b>	T10.2 Iris Recognition using Corner Detection <b>P. Gupta, Indian Institute of Technology</b>	T11.2 Estimating Treatment Effect Heterogeneity for Binary Clustered Data <b>E.J. Mascha, Cleveland Clinic Foundation</b>	T12.2 An Experimental Design for Clinical Trials Evaluating Combination Agents <b>C.E. McLaren, University Of California</b>
<b>10:45</b>	T9.3 Combining HIV and AIDS Surveillance Data to Reconstruct HIV/AIDS Epidemics <b>A. Alioum, INSERM E0338</b>	T10.3 An Improved Iris Recognition System Using Zigzag Collarete Area and Support Vector Machines <b>K. Roy, Concordia University</b>	T11.3 Estimation of Treatment Effect Adjusting for Non-Compliance Using the Intensity Score Method - An Application to a Large Primary Prevention Study for Coronary Events <b>Y. Tanaka, University of Tokyo</b>	T12.3 Design and Analysis of Crossover Clinical Trials with Censored Survival Data <b>H.H. Song, Catholic University of Korea</b>
<b>11:00</b>	T9.4 Survival Extrapolation in Cost-Effectiveness Studies <b>N. Demiris, MRC Biostatistics Unit</b>	T10.4 Improving Keystroke Dynamics User Authentication Identifying Discriminating Features <b>F.A.B. Colugnati, Information Technology Research Institute (IPTI)</b>	T11.4 Utilizing Propensity Scores to Estimate Causal Effect in Randomized Clinical Trials with All-or-None Compliance <b>T. Guo, McGill University</b>	T12.4 Nonparametric Inference of Adverse Events under Dependent Censoring <b>M. Nishikawa, National Institute Of Public Health</b>
<b>11:15</b>	T9.5 Improving Interpretability of Participatory Rural Appraisal (PRA) through Appropriate Statistical Methods: Case Studies from the Smallholder Rubber Sector of Sri Lanka <b>W. Wijesuriya, Rubber Research Institute of Sri Lanka</b>	T10.5 Keystroke Biometric Recognition Studies on Long-Text Input Over the Internet <b>C. Tappert, CSIS Pace University</b>	T11.5 Effect of Age on Fecundability: An Illustration of Differences Between Longitudinal and Transversal Measurements <b>M. Chavance, INSERM U780</b>	T12.5 Efficiency of Enrichment Designs in Phase II/III Combination Studies <b>C. Chen, Merck Research Laboratories</b>
<b>11:30</b>	T9.6 A Flexible Space-Time Scan Statistic for Disease Outbreak Detection <b>K. Takahashi, National Institute of Public Health</b>	T10.6 A Method for Creating a 3D Face Image from a 2D Face Image <b>S. Morgera, Florida Atlantic University</b>	T11.6 The Complier-Average Causal Effect (CACE) of Psychological Treatment for Depression <b>M. Maracy, University of Manchester</b>	T12.6 Planning for Clinical Trials from Phase II to Phase III: Combine or not to Combine <b>S.J. Wang, U.S. Food and Drug Administration</b>
<b>11:45</b>	T9.7 Simple Measures for Reporting the Magnitude of Small Area Variation in Rates <b>B.N. Murthy, National Institute of Epidemiology</b>	T10.7 A Statistical Biometric View of Biometric Authentication/ Identification <b>P.B. Imrey, Cleveland Clinic Foundation</b>	T11.7 Causal Analyses of Censored Survival Data with Time-Varying Treatment <b>S.J. Bond, Medical Research Council</b>	T12.7 Sample Size Calculation for Multicenter Randomized Trial: Taking the Center Effect into Account <b>E. Vierron, Centre d'investigation Clinique INSERM 202</b>

12:00

Lunch / Exhibits / Poster Session 2

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>T13</b>	<b>New Development In Statistical Methods For Incomplete Data With Complex Observation Process</b> <b>Organizer: Jianguo (Tony) Sun</b> <b>Chair: Jianguo (Tony) Sun</b> <b>Room: LEA132</b>	<b>T14</b>	<b>JABES Journal Showcase Session</b> <b>Organizer: Byron J.T. Morgan</b> <b>Chair: Byron J.T. Morgan</b> <b>Room: LEA026</b>
<b>13:00</b>	T13.1 Problems in Survival and Event History Analysis Arising from Intermittent Follow-up of Individuals <b>J. Lawless, University of Waterloo</b>	<b>13:00</b>	T14.1 Population-Averaged Nonlinear Regression Models for Epidemiologic Exposure Studies of Volatile Organic Compounds <b>B. Johnson, University of North Carolina</b>
<b>13:25</b>	T13.2 Gap Time Modeling <b>T. Scheike, University of Copenhagen</b>	<b>13:30</b>	T14.2 Is McMC Always Better? An Evaluation on a Genetics Application <b>N.A. Sheehan, University of Leicester</b>
<b>13:50</b>	T13.3 Interval Censoring: Identifiability and Related Topics <b>G. Gomez, Universitat Politecnica de Catalunya</b>	<b>14:00</b>	T14.3 Bayesian Graphical Models: Applications to Quantitative Modelling, Inference and Prediction in Aquatic and Fisheries Ecology <b>E. Rivot, AgrocampusRennes</b>
<b>14:15</b>	T13.4 Regression Analysis of Failure Time Data with Informative Interval Censoring <b>Z. Zhang, Oklahoma State University</b>	<b>14:30</b>	<b>B.J.T. Morgan (Discussant)</b> <i>University of Kent</i>

## CONTRIBUTED SESSIONS

	<b>T15 Spatial Modelling II</b>	<b>T16 Survival Analysis II</b>	<b>T17 Field Trial Design</b>	<b>T18 Microarray Data I</b>
	<b>Chair: G. Bravo</b> <b>Room WA125</b>	<b>Chair: R. Sutradhar</b> <b>Room LEA232</b>	<b>Chair: V. Baladandayuthapani</b> <b>Room WA120</b>	<b>Chair: R. Nadon</b> <b>Room LEA219</b>
<b>13:00</b>	T15.1 Posterior Probability in the Analysis of Hospital Dependent Spatial Variation of Health Care Supply <b>V. Barbieri, Innsbruck Medical University</b>	T16.1 Patient Trajectories as Predictors of Survival <b>L. Billard, University of Georgia</b>	T17.1 Rectangular Experiments: Restricted Randomization or Row-Column Designs? <b>R.A. Bailey, Queen Mary</b>	T18.1 Multidimensional Local False Discovery Rate for Microarray Studies <b>A. Ploner, Karolinska Institutet</b>
<b>13:15</b>	T15.2 Misspecified Spatial Structure of Residuals in Ecological Poisson Regression <b>A. Latouche, INSERM-U754</b>	T16.2 Comparison of Algorithms to Generate Event Times Conditional on Time-Dependent Covariates <b>M.-P. Sylvestre, McGill University</b>	T17.2 Control Treatments in Agricultural Experiments with Split Units <b>S. Mejza, Agricultural University</b>	T18.2 Instability of False Discovery Rate Estimation from Microarray Gene Expression Data <b>X. Qiu, University of Rochester</b>
<b>13:30</b>	T15.3 Joint Disease Mapping in Veterinary Epidemiology: A Multivariate Bayesian Geostatistical Approach <b>A. Biggeri, University of Florence</b>	T16.3 On the Use of Fractional Polynomials to Model Time-varying Effects in the Cox Model <b>W. Sauerbrei, Institute of Medical Biometry and Informatics</b>	T17.3 Neighbour Methods for Field Experiments under Spatial Dependence <b>J.A. Eccleston, University of Queensland</b>	T18.3 Testing for Differentially Expressed Pathways in Microarray Experiments <b>K. Strandberg, University of New Mexico</b>
<b>13:45</b>	T15.4 Non-nested Geographical Scales in Ecological Poisson Regression Models <b>L. Fortunato, INSERM U754</b>	T16.4 Analysis of Interval-censored Data from Circular Migrant and Non-migrant Sexual Partnerships Using the EM Algorithm <b>K. Zuma, Human Sciences Research Council</b>	T17.4 Strengths and Limitations of Mega-Environment Identification Using GGE Biplots Model <b>S. Tzortzios, University of Thessaly School of Agricultural Sciences</b>	T18.4 Risks and Benefits of Pooling Biological Samples in Gene Expression Studies <b>L. Edler, German Cancer Research Center</b>
<b>14:00</b>	T15.5 Comparing Spatial Models for Data Given on Disparate Scales: A Study Relating Childhood Leukaemia to Benzene Emissions <b>S. Sturtz, University of Dortmund</b>	T16.5 Truncated Probability Models of Age Dependent First Conception Delay and their Applications to Estimate Fertility Parameters <b>D.C. Nath, Gauhati University</b>	T17.5 On New Measures of Sustainability <b>S. Basak, Uttar Banga Krishi Viswavidyalaya</b>	T18.5 Deconfounding Microarray Analysis: Independent Measurements of Cell Type Proportions Used in a Regression Model to Resolve Tissue Heterogeneity Bias <b>A. Ziegler, Universität zu Lübeck</b>
<b>14:15</b>	T15.6 The Usefulness of Some Soil Properties and Plant Traits for the Estimation of Spatial Variation in a 3 <sup>5</sup> Field Experiment with Pea <b>J. Golaszewski, University of Warmia and Mazury</b>	T16.6 Response-adaptive Randomization for Clinical Trials with Survival Time Outcomes <b>L. Zhang, Medimmune Inc.</b>	T17.6 Determination of Optimum Shape and Size of Plots - A New Method <b>S. Pal, Bidhan Chandra Krishi Viswavidyalaya</b>	T18.6 Signal Quality Measurements for cDNA Microarrays <b>T.L. Bergemann, University of Minnesota</b>
<b>14:30</b>	T15.7 A Class of Tests for Spatial Clustering of Health Events Based on Case-Control Point Data <b>T. Tango, National Institute of Public Health</b>	T16.7 Non-Ignorable Missing Covariate Data in Parametric Survival Models <b>K.L. Boyd, University Of Warwick</b>	T17.7 Construction of Unreplicated, Spatial and Crossover Designs Using CYCDesign <b>E.R. Williams, Australian National University</b>	T18.7 On the Stability of Gene Expression Profiles Derived via Sparse Penalised Likelihood Methods: A Case Study <b>M. Zucknick, Imperial College</b>
<b>14:45</b>	<b>Refreshment Break / Exhibits</b>			

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>T19</b>	<b>Statistics In Dentistry: Where Complexities Meet Each Other</b> <b>Organizers: Emmanuel Lesaffre and Brian Leroux</b> <b>Chairs: Emmanuel Lesaffre and Brian Leroux</b> <b>Room: LEA132</b>	<b>T20</b>	<b>Functional Data Analysis</b>  <b>Organizer: Michal Abrahamowicz</b> <b>Chair: Michal Abrahamowicz</b> <b>Room: LEA026</b>
<b>15:15</b>	T19.1 Topics in Event History Analysis for Oral Health Research <b>T. Gerds, <i>Universität Freiburg</i></b>	<b>15:15</b>	T20.1 Introduction to the Modelling of Dynamic Processes <b>J.O. Ramsay, <i>McGill University</i></b>
<b>15:45</b>	T19.2 Misclassification in Oral Health Studies <b>H. Kuechenhoff, <i>Universität München</i></b>	<b>15:40</b>	T20.2 Functional Data Analysis in Evolutionary Biology <b>N.E. Heckman, <i>University of British Columbia</i></b>
<b>16:15</b>	T19.3 Applications of Multivariate Survival Analysis to Dental Research <b>S.-K. Chuang, <i>Harvard School of Dental Medicine</i></b>	<b>16:05</b>	T20.3 Concurvity Bias: A Warning Bell for FDA? <b>T. Ramsay, <i>University Ottawa</i></b>
<b>16:45</b>	<b>A. Kingmann (NIDCR/NIH)</b> and <b>T. De Rouen <i>University of Washington</i></b> <b>(Discussants)</b>	<b>16:30</b>	T20.4 Penalized Solutions to Functional Regression Problems <b>J. Harezlak, <i>Harvard School of Public Health</i></b>
<b>17:30</b>	<b>Awards Ceremony (Honorary Life Membership, Lifetime Achievement for IBS Award, Rob Kempton Award)</b> and <b>IBS 60th Anniversary Lecture – “The Pedigree of the International Biometric Society”</b> <b>Stephen Stigler, <i>University of Chicago</i> (Guest Speaker)</b>		

## CONTRIBUTED SESSIONS

	<b>T21 Nonparametric Methods</b>	<b>T22 Dose Finding And Dose-Response Models</b>	<b>T23 Estimation Methods For Correlated Data</b>	<b>T24 Genomics and Proteomics</b>
	<b>Chair: O. Aalen</b> <b>Room WA125</b>	<b>Chair: G. Gomez</b> <b>Room LEA232</b>	<b>Chair: J.A. Eccleston</b> <b>Room WA120</b>	<b>Chair: W. Sauerbrei</b> <b>Room LEA219</b>
<b>15:15</b>	T21.1 Choosing the Optimal Size of Multivariate Regression Trees (MRT) <b>M.-H. Ouellette</b> , <i>Université de Montréal</i>	T22.1 Estimating the Dose Response Patterns in a Phase 2 Clinical Trial <b>C. Hirotsu</b> , <i>Meisei University</i>	T23.1 Generalized Linear Mixed Models with Sparse Binary Outcome Data: Comparison of Estimation Methods <b>M.-E. Beauchamp</b> , <i>McGill University</i>	T24.1 Accounting for Dependence in Similarity Data from DNA Fingerprinting <b>G. Hepworth</b> , <i>University of Melbourne</i>
<b>15:30</b>	T21.2 Nonparametric Error-in-Variables Quantile Regression <b>A.L. Rojas</b> , <i>Carnegie Mellon University</i>	T22.2 Bayesian Approaches to Dose-response Calibration Models <b>B. Shafii</b> , <i>College of Agricultural and Life Sciences</i>	T23.2 The Reliability of Approximate Likelihood Techniques for GLMMs <b>D. Collins</b> , <i>University of Wollongong</i>	T24.2 Poisson Approximation-Based Monoisotopic Peak Finding In Mass Spectra Obtained By Combined Fractional Diagonal Chromatography <b>T. Burzykowski</b> , <i>Hasselt University</i>
<b>15:45</b>	T21.3 Rates for Nonparametric Maximum-Likelihood Estimation of Log-Concave Densities <b>M.I. Stewart</b> , <i>University of Sydney</i>	T22.3 Dose-Finding in Phase I Clinical Trials Based on Toxicity Probability Intervals <b>Y. Ji</b> , <i>University of Texas</i>	T23.3 Mixture Spatio-Temporal Modelling Using Biological Population Data <b>G. Tsiotas</b> , <i>Imperial College</i>	T24.3 Modelling Peak Intensities from Mass Spectrometry Proteomic Profiles Using Zero-modified Distributions <b>J.H. Barrett</b> , <i>University of Leeds</i>
<b>16:00</b>	T21.4 Nonparametric Tests for Dependent Observations Obtained at Varying Time Points <b>S. May</b> , <i>University of California San Diego</i>	T22.4 Adaptive Model-Based Approach for Designing Dose-Finding Studies <b>V. Dragalin</b> , <i>Research Statistics Unit GlaxoSmithKline</i>	T23.4 REML Estimation of Variance Parameters in Nonlinear Mixed Effects Models Using the SAEM Algorithm <b>C. Meza</b> , <i>Université Paris--Sud</i>	T24.4 Making Sense of Two-Dimensional Gel Images <b>F. Seillier-Moiseiwitsch</b> , <i>Georgetown University</i>
<b>16:15</b>	T21.5 Rank-based Regression for Analysis of Repeated Measures <b>Y.-G. Wang</b> , <i>CSIRO</i>	T22.5 Gatekeeping Procedures for Dose Finding with Multiple Endpoints <b>A.C. Tamhane</b> , <i>Northwestern University</i>	T23.5 Estimating Correlation with Multiply Censored Data <b>E.A.C. Newton</b> , <i>Silent Spring Institute</i>	T24.5 A Moving-Window Goodness-of-fit Test to Detect Horizontal Gene Transfer <b>O. Thas</b> , <i>Ghent University</i>
<b>16:30</b>	T21.6 Testing for Multiple Change Points under Umbrella Alternatives <b>F. Al-Awadhi</b> , <i>Kuwait University</i>	T22.6 Asymmetry in the Dose Response Curve in Relation to the Four Parameter Logistic Model <b>A. Manola</b> , <i>RWJohnson Pharmaceutical Research Institute</i>	T23.6 A Simulation-Based Comparison of Methods for Analysing Binary Outcomes from Cluster Randomised Trials <b>O.C. Ukoumunne</b> , <i>Murdoch Childrens Research Institute</i>	T24.6 Genomic Instability Measures Following Array CGH <b>R.A. Betensky</b> , <i>Harvard School of Public Health</i>
<b>16:45</b>	T21.7 A Lego System for Conditional Inference <b>T. Hothorn</b> , <i>Friedrich-Alexander-Universität Erlangen-Nurnberg</i>	T22.7 Semiparametric Modelling of a Dose-Response Relationship in the Treatment of Childhood Amblyopia <b>D.A. Stephens</b> , <i>Imperial College London</i>	T23.7 Applications of Linear Mixed Models Diagnostics <b>T. Zewotir</b> , <i>University of KwaZulu-Natal (317)</i>	T24.7 Nonparametric Statistical Method for Partial Areas under Receiver Operating Characteristic Curves, with Application to Genomic Studies <b>Y. He</b> , <i>University Health Network</i>

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>TH1</b>	<b>Statistics In Veterinary Public Health</b>	<b>TH2</b>	<b>Surrogate Endpoints: Wishful Thinking or Reality?</b>
	<b>Organizer: Olaf Berke</b> <b>Chair: Mary Foulkes</b> <b>Room: LEA132</b>		<b>Organizer: Stuart G. Baker</b> <b>Chair: Tomasz Burzykowski</b> <b>Room: LEA026</b>
<b>08:00</b>	TH1.1 Use of Statistical Methods in Veterinary Medicine <b>I. Dohoo</b> , <i>University of Prince Edward Island</i>	<b>08:00</b>	TH2.1 Graphical Approach to Surrogate Endpoint Validation <b>S.G. Baker</b> , <i>National Institutes of Health</i>
<b>08:30</b>	TH1.2 Models for Cross Species Transmission of Infectious Diseases <b>P. Clarke</b> , <i>London School of Hygiene &amp; Tropical Diseases</i>	<b>08:15</b>	TH2.2 Validation of Surrogate Endpoints Using Meta-Analyses of Individual Patient Data <b>M. Buyse</b> , <i>International Drug Development Institute</i>
<b>09:00</b>	TH1.3 Diagnosing Disease Risk and Assessing the Properties of Diagnostic Measures for the Protection of Animal and Human Health: A Bayesian Semi-Parametric Approach to Diagnosis and to ROC Curve Estimation <b>A. Branscum</b> , <i>University of California</i>	<b>08:30</b>	TH2.3 Practical Experience with Meta-Analysis to Evaluate Surrogate Endpoints <b>M.D. Hughes</b> , <i>Harvard School of Public Health</i>
<b>09:30</b>	<b>L. Kreienbrock (Discussant)</b> <i>University of Veterinary Medicine</i>	<b>08:45</b>	TH2.4 Surrogate Marker Validation: An Information Theory Perspective <b>A. Alonso</b> , <i>Hasselt University</i>
		<b>09:00</b>	TH2.5 Surrogate Markers - a perspective from Regulatory Issues <b>A. Chakravarty</b> , <i>US Food And Drug Administration</i>
		<b>09:15</b>	TH2.6 Surrogate Endpoint Validation: Statistical Elegance Versus Clinical Relevance <b>D.J. Sargent</b> , <i>Mayo Clinic</i>
		<b>09:30</b>	<b>Floor Discussion</b>



## CONTRIBUTED SESSIONS

	<b>TH3 Model Uncertainty And Diagnostics</b>	<b>TH4 Multiple Testing</b>	<b>TH5 Epidemiological Research I</b>	<b>TH6 Methods For Longitudinal Data</b>
	<b>Chair: P. Macdonald Room WA125</b>	<b>Chair: K.E. Basford Room LEA232</b>	<b>Chair: M. Schumacher Room WA120</b>	<b>Chair: M. Daniels Room LEA219</b>
<b>08:00</b>	TH3.1 Bias of Dimension Estimator Using Penalized Likelihood Methods <b>P. Salzman</b> , <i>University of Rochester</i>	TH4.1 Simultaneous Inference for Ratios of Coefficients in the General Linear Model <b>G. Dilba</b> , <i>University of Hannover</i>	TH5.1 A Bayesian Analysis of the Citrus Canker Epidemic in Urban Miami <b>L.E. Jamieson</b> , <i>MRC Biostatistics Unit</i>	TH6.1 Joint Analysis of Multiple Longitudinal Outcomes: Application of a Latent Cluster Model <b>H. Putter</b> , <i>Leiden University Medical Center</i>
<b>08:15</b>	TH3.2 Bayesian Model Comparison Using the Posterior Deviance <b>C. Liu</b> , <i>University of Melbourne</i>	TH4.2 Powerful Short-Cut Procedures for Gatekeeping Strategies <b>G. Hommel</b> , <i>IMBEI</i>	TH5.2 Application of Critical Ratios in the Determination of Health Condition Index <b>H.G. Williams</b> , <i>Ministry of Health</i>	TH6.2 Continual Reassessment Method for Longitudinal Binary Data <b>X. Paoletti</b> , <i>Institut National du Cancer</i>
<b>08:30</b>	TH3.3 Interest of the Interacting Particle Filter for Updating Dynamic Crop Model Prediction <b>C. Naud</b> , <i>INRA</i>	TH4.3 The Calculation of Singular Multivariate Normal Distribution Functions <b>T. Miwa</b> , <i>National Institute for Agro-Environmental Sciences</i>	TH5.3 A Discussion of Upper Limit of Human Life Distribution Based on Analysis of Data on Oldest-Old Survivors <b>N. Hanayama</b> , <i>Shobi-Gakuen University</i>	TH6.3 Conditional Generalized Estimating Equations for the Analysis of Clustered and Longitudinal Data <b>S. Goetgeluk</b> , <i>Ghent University</i>
<b>08:45</b>	TH3.4 Full and Conditional Likelihood Approaches to Inference in the Presence of Selection Bias. <b>J. Bowden</b> , <i>University of Leicester</i>	TH4.4 DNA-Motif Identification Under Various Kinds Of Order Restriction Using Multiple Contrasts <b>X. Mi</b> , <i>Biostatistics Unit University of Hannover</i>	TH5.4 The Influence of Geographic Accessibility on the Use of Video Lottery Terminals (VLTS) <b>K. A. Brown</b> , <i>University of North Carolina at Chapel Hill</i>	TH6.4 Detecting Trends in Noisy Data Series: Application to the Detection of PSA Failure, Defined as Three Consecutive PSA Rises in Men Treated for Prostate Cancer <b>C.A. Bellera</b> , <i>McGill University</i>
<b>09:00</b>	TH3.5 Semiparametric Models and Sensitivity Analysis of Longitudinal Data with Non-Random Dropouts <b>D. Todem</b> , <i>Michigan State University</i>	TH4.5 Making One-Sided Inferences in Two-Sided Multiple Significance Testing: Do We, Need We, Control the Family-Wise-Error Rate? <b>M. Hudson</b> , <i>Prosoft Software Inc.</i>	TH5.5 Mapping Child's Health Inequalities in Nigeria: Contextual Influence of Child's Place of Residence <b>N-B. Kandala</b> , <i>King's College London</i>	TH6.5 Constructing Autoregressive Models using Mixture Copula Transition Distributions <b>G. Escarela</b> , <i>Universidad Autonoma Metropolitana</i>
<b>09:15</b>	TH3.6 Correcting for Model Uncertainty when using Fractional Polynomials to Estimate a Safe Level of Exposure <b>C. Faes</b> , <i>Hasselt University</i>	TH4.6 Simultaneous Confidence Intervals for Assessment of Steady State <b>G. Jiang</b> , <i>Cephalon Inc.</i>	TH5.6 A Hybrid Approach to Evaluation of BRCA Mutations Prevalence for Ashkenazi Jewish Women <b>I. Novikov</b> , <i>Gertner Institute for Epidemiology and Health Policy Research</i>	TH6.6 Analysis of Spatially Correlated Longitudinal Data <b>R. Ma</b> , <i>University of New Brunswick</i>
<b>09:30</b>	TH3.7 Effects of Noise in Performance Comparisons of Designs for Model Identification and Discrimination <b>Y. Luan</b> , <i>University of California</i>		TH5.7 Challenges in the Analysis of a Randomised Trial of a School-Based Toothbrushing Program for the Prevention of Dental Caries <b>D. Battistutta</b> , <i>Queensland University of Technology</i>	TH6.7 A Tree-growing Algorithm for the Analysis of Growth Curves <b>A. Ciampi</b> , <i>McGill University</i>
<b>09:45</b>	<b>Refreshment Break / Exhibits</b>			

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>TH7</b>	<b>History And Evolution Of Resource Inventories In Forestry, Fisheries And Wildlife</b> <b>Organizer: Timothy G. Gregoire</b> <b>Chair: Timothy G. Gregoire</b> <b>Room: LEA132</b>	<b>TH8</b>	<b>Conflict of Interest Concerns in Biostatistical Work</b>  <b>Organizer: Peter B. Imrey</b> <b>Chair: Peter B. Imrey</b> <b>Room: LEA026</b>
<b>10:15</b>	TH7.1 Future Needs for Survey Methods of Fisheries Resources <b>S.J. Smith</b> , <i>Department of Fisheries and Oceans</i>		TH8.1 Panelist, <b>M.S. Lauer</b> , <i>Cleveland Clinic Foundation, Contributing Editor JAMA</i>
<b>10:45</b>	TH7.2 A Review of Modern Statistical Methods for the Design and Analysis of Wildlife Studies <b>K.H. Pollock</b> , <i>North Carolina State University</i>		TH8.2 Panelist <b>S. Le Cressie</b> , <i>Leiden University Medical Centre</i>
<b>11:15</b>	TH7.3 A Century of Evolution in Extensive Forest Inventories <b>M. Köhl</b> , <i>University of Hamburg</i>		TH8.3 Panelist <b>S.S. Ellenberg</b> , <i>University of Pennsylvania School of Medicine</i>
<b>11:45</b>	<b>S. Thompson (Discussant)</b> <i>Pennsylvania State University</i>		TH8.4 Panelist <b>N. Keiding</b> , <i>University of Copenhagen</i>
			TH8.5 Panelist <b>S. Lindborg</b> , <i>Eli Lilly</i>
			Panelist <b>J.H. Ware</b> , <i>Consultant, New England Journal of Medicine</i>

## CONTRIBUTED SESSIONS

	<b>TH9 Markov And Semi-Markov Models</b> <b>Chair: M. Fredette</b> <b>Room WA125</b>	<b>TH10 Methods For Correlated Data</b> <b>Chair: V.A. Núñez-Antón</b> <b>Room LEA232</b>	<b>TH11 Latent Variable Methods In Health Research</b> <b>Chair: C. Wild</b> <b>Room WA120</b>	<b>TH12 Quantitative Methods In Genetics</b> <b>Chair: N. Heckman</b> <b>Room LEA219</b>
<b>10:15</b>	TH9.1 Informative Examinations in Longitudinal Data: A Markov Model Formulation with Application to Hepatitis C Disease Progression <b>M.J. Sweeting</b> , <i>Medical Research Council</i>	TH10.1 Checking Statistical Independence <b>W.R. Pestman</b> , <i>Utrecht University</i>	TH11.1 Flexible Latent Variable Models for Teratology <b>J. Braeken</b> , <i>University of Leuven</i>	TH12.1 Mapping Quantitative Trait Loci under the Multivariate-t Model <b>J. Peng</b> , <i>University of California</i>
<b>10:30</b>	TH9.2 Exploring the State Sequence Space for Hidden Markov and Semi-Markov Chains <b>Y. Guédon</b> , <i>Université Montpellier II</i>	TH10.2 A Weighted Multivariate Sign Test for Cluster Correlated Data <b>D. Larocque</b> , <i>HEC Montreal</i>	TH11.2 Modelling Multivariate Cancer Rates with a Latent Structure Mixture Model <b>T. Bailey</b> , <i>University of Exeter</i>	TH12.2 Powerful Nonparametric Sib-Pair Linkage Methods for Quantitative Traits <b>Y.J. Hong</b> , <i>Catholic University of Korea</i>
<b>10:45</b>	TH9.3 The Analysis of Local Recurrence and Distant Metastases in Early-Stage Breast Cancer Using a Mixture Markov Model <b>W.-T. Hwang</b> , <i>University of Pennsylvania</i>	TH10.3 Differential Evolution Markov Chain for Bayesian Analysis of Nonlinear Mixed Effects Models <b>C.J.F. Ter Braak</b> , <i>Biometris</i>	TH11.3 A Latent Markov Model for Describing the Time Evolution of Multivariate Health Status Index: Application to Delirium <b>A. Dyachenko</b> , <i>St.Mary's Hospital, McGill University</i>	TH12.3 Score Test for Linkage in Generalized Linear Models <b>J.J.P. Lebecq</b> , <i>Leiden University Medical Center</i>
<b>11:00</b>	TH9.4 Choice between Semi-Parametric Markov and Non-Markov Multi-state Models from Coarsened Observations: Application to Dementia <b>D. Commenges</b> , <i>INSERM</i>	TH10.4 Sample Size Calculation Accounting for Attrition in Cluster Randomized Trials <b>M. Taljaard</b> , <i>Ottawa Health Research Institute</i>	TH11.4 A Comparison Among Indices of Perceived Health Status Based on Latent Class Clustering Models <b>G. Cavrini</b> , <i>University of Bologna</i>	TH12.4 A New Type of Stochastic Dependence Revealed in Gene Expression Data <b>A. Yakovlev</b> , <i>University of Rochester</i>
<b>11:15</b>	TH9.5 A Semi-Markov Model with Interval Censoring and Non-Proportional Hazards <b>Y. Foucher</b> , <i>University of Montpellier</i>	TH10.5 Improved Estimation Procedures for Intraclass Correlation Parameters <b>E. Ahmed</b> , <i>University of Windsor</i>	TH11.5 A Latent Class Model for Identifying Distinct Clinical Courses of an Illness: Application to Delirium <b>H. Xu</b> , <i>McGill University</i>	TH12.5 Finding Transcription Factor Binding Site : Markov Chain Monte Carlo Convergence <b>D. Nur</b> , <i>University of Newcastle</i>
<b>11:30</b>	TH9.6 A Semi-Markov Model for Biting Time Series <b>R.P. Littlejohn</b> , <i>AgResearch Limited</i>	TH10.6 Bootstrap-Based Inference for Cox' Proportional Hazards Analyses of Clustered Censored Survival Data <b>Y.L. Xiao</b> , <i>McGill University</i>	TH11.6 Latent Class Multilevel Modelling of Ordinal Dental Data <b>M.S. Gilthorpe</b> , <i>University of Leeds</i>	TH12.6 Improved Codominant Scoring of AFLP, Based on Collision Probabilities <b>G. Gort</b> , <i>Wageningen University</i>
<b>11:45</b>	TH9.7 A Semi-Markov Model for the Natural History of Human Papillomavirus Infection <b>M. Plummer</b> , <i>International Agency for Research on Cancer</i>	TH10.7 On an Efficient Model to Forecast Sex Data <b>Su. Pal</b> , <i>University of Calcutta</i>	TH11.7 An Empirical Study of the Classification of Weight Patterns: Latent Class Approach <b>N. Karaagaoglu</b> , <i>Baskent University</i>	
<b>12:00</b>	<b>Lunch / Exhibits / Poster Session 3</b>			

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>TH13</b>	<b>Modelling of Covariance Structures in Longitudinal Studies</b>	<b>TH14</b>	<b>Biometrics Journal Showcase Session</b>
	<b>Organizer: Jianxin Pan</b>	<b>Organizer: Laurence Freedman</b>	
	<b>Chair: Jianxin Pan</b>	<b>Chair: Laurence Freedman</b>	
	<b>Room: LEA132</b>	<b>Room: LEA026</b>	
<b>13:00</b>	TH13.1 Modelling of Longitudinal Data: Model Selection and Goddness of Fit <b>V.A. Núñez-Antón</b> , <i>Universidad del País Vasco (UPV/EHU)</i>	<b>13:00</b>	TH14.1 Subset Clustering of Binary Sequences with an Application to Genomic Abnormality Data <b>P.D. Hoff</b> , <i>University of Washington</i>
<b>13:20</b>	TH13.2 Covariance Selection and Estimation Via Penalized Likelihood <b>M. Pourahmadi</b> , <i>Northern Illinois University</i>	<b>13:30</b>	TH14.2 Stochastic Search Gene Suggestion: A Bayesian Hierarchical Model for Gene Mapping <b>M.D. Swartz</b> , <i>University of Texas M.D. Anderson Cancer Center</i>
<b>13:50</b>	TH13.3 Modelling the Association between a Binary and a Continuous Longitudinal Process <b>M. Daniels</b> , <i>University of Florida</i>	<b>14:00</b>	TH14.3 Model Selection in Change-Point Like Problems via a Modified Bayes Information Criterion: Applications to Array CGH and Gene Mapping <b>D. Siegmund</b> , <i>Stanford University</i>
<b>14:15</b>	<b>D. von Rosen (Discussant)</b> <i>Swedish University of Agricultural Sciences</i> and <b>T. Nahtman (Discussant)</b> <i>University of Tartu</i>	<b>14:30</b>	<b>J. Whittaker (Discussant)</b> <i>London School of Hygiene and Tropical Medicine</i>

## CONTRIBUTED SESSIONS

	<b>TH15 Environmental Research</b>	<b>TH16 Infectious Diseases</b>	<b>TH17 Bioinformatics</b>	<b>TH18 Clinical Trials III</b>
	<b>Chair: J. Morris</b> <b>Room WA125</b>	<b>Chair: I. Dohoo</b> <b>Room LEA232</b>	<b>Chair: P. Song</b> <b>Room WA120</b>	<b>Chair: R. Li</b> <b>Room LEA219</b>
<b>13:00</b>	TH15.1 Determination of the Main Atmospheric Factor for the Explanation of Ozone Concentrations <b>K.G. Tsakiri</b> , <i>State University of New York at Albany</i>	TH16.1 Stochastic Epidemic Models for Estimating Transmission Rates of Pathogens <b>A.N. Pettitt</b> , <i>Queensland University of Technology</i>	TH17.1 Bioinformatic Analysis of Allergens <b>K.E. Basford</b> , <i>Australian Centre for Plant Function Genomics and School of Land and Food Sciences, University of Queensland</i>	TH18.1 Estimation of the Causal Effect of Treatment Received and of Treatment Assignment in Randomized Time-To-Event Studies with All-Or-None Compliance <b>I.L. Hudson</b> , <i>University of South Australia</i>
<b>13:15</b>	TH15.2 The Impact of Meteorological Conditions on the Incidence of Respiratory Infections with Fever <b>I. Karagiannis</b> , <i>University of Athens</i>	TH16.2 An Optimal Isolation Policy for Stochastic Epidemic Model <b>J.V. Arali</b> , <i>P.C. Jabin Science College</i>	TH17.2 Increasing Classifier Accuracy by Exploiting Background Variable Information using LPLS <b>S. Sæbø</b> , <i>Norwegian University of Life Sciences</i>	TH18.2 Adjusting for Rescue Medication <b>D.R. Bristol</b> , <i>Consultant</i>
<b>13:30</b>	TH15.3 Effect of Noise Pollution on Physical and Mental Health of Shopkeepers in Varanasi City <b>M. Pandey</b> , <i>Banaras Hindu University</i>	TH16.3 Epidemiologic Study of Animal Populations By Capture-Recapture : FIV in Domestic Cats <b>L. Rouan</b> , <i>Centre d'Ecologie Fonctionnelle et Evolutive</i>	TH17.3 On the Design of Gene Expression Studies Involving Biological and Technical Replication <b>P.S. Bennett</b> , <i>University Of Adelaide</i>	TH18.3 Regaining Power Lost by Non-compliance <b>T. Becque</b> , <i>MRC Biostatistics Unit</i>
<b>13:45</b>	TH15.4 Risk Factor Variable Selection and Importance Ranking in the Context of Well Pollution <b>E. Acar</b> , <i>University of New Hampshire</i>	TH16.4 Residual Effects of Proton Pump Inhibitors on the Risk of Community Acquired Clostridium difficile <b>J.A. Delaney</b> , <i>McGill University</i>	TH17.4 Family-based Association Screening Algorithms in Longitudinal Pharmacogenetics Studies for Asthma <b>K. Van Steen</b> , <i>University of Ghent</i>	TH18.4 A Natural History Study to Compare Treatments <b>A. Cnaan</b> , <i>University of Pennsylvania</i>
<b>14:00</b>	TH15.5 Canonical Correlation Analysis Applied to Environmental Data <b>L. Bellanger</b> , <i>Université de Nantes</i>	TH16.5 Flexible Bivariate Models for Serological Data <b>N. Hens</b> , <i>Hasselt University</i>	TH17.5 Regularized General Linear Regression for Genome Wide Association Analyses <b>S. Wagenpfeil</b> , <i>Technische Universität</i>	TH18.5 A New Approach to Assessing Agreement between Quantitative Measurements Using Replicated Observations <b>M. Haber</b> , <i>Emory University</i>
<b>14:15</b>	TH15.6 Comparative Studies of Models for the Assessment of Environmental Pollution: A Case Study of the Bonny Estuary in the Niger Delta, Nigeria. <b>E.C. Nduka</b> , <i>University Of Port Harcourt</i>	TH16.6 Use of Stochastic Computer Simulation and Maximum Likelihood Methods to Estimate Sexual Transmissibility of Human Papillomavirus Infection <b>A.N. Burchell</b> , <i>McGill University</i>	TH17.6 Statistical Analysis of Dendritic Branching in Hippocampal Neurons <b>R. Jornsten</b> , <i>Rutgers University</i>	TH18.6 Evaluation of Logistic-Normal Binomial Model as an Alternative to Binomial Model in Analysing Clustered Clinical Data <b>S. Samita</b> , <i>University of Peradeniya</i>
<b>14:30</b>	TH15.7 Physical and Chemical Characterisation of Soils in the Natural Habitat of <i>Irvingia Gabonensis</i> (Aubry Lecomte ex O'Rorke) in the Humid Forest Zone of Cameroon <b>E. Asaah</b> , <i>ICRAF-AHT Regional Programme</i>	TH16.7 CVMM: An Agent-based Model for Comparing and Evaluating Vaccination Strategies <b>C. Hicks</b>	TH17.7 Bayesian Hierarchical Models for Combining Genomic Data <b>S.T. Jensen</b> , <i>The Wharton School University of Pennsylvania</i>	

14:45

Refreshment Break / Exhibits

INVITED SESSION	TOPIC CONTRIBUTED SESSION
<p><b>TH19 Validation Process Of Results In Biomedical Research Centres</b>  <b>Organizers: Martin Daumer and Ulrike Held</b>  <b>Chair: Martin Daumer</b>  <b>Room LEA132</b></p>	<p><b>TH20 Model Selection And Goodness-Of-Fit Tests For Longitudinal Data</b>  <b>Organizer: Annie Qu</b>  <b>Chair: Annie Qu</b>  <b>Room LEA026</b></p>
<p><b>15:00</b> TH19.1  Validation Processes of Results in Biomedical Research Centres  <b>M. Segal, University of California</b></p>	<p><b>15:00</b> TH20.1  Quadratic Inference Functions for Varying Coefficient Models with Longitudinal Data  <b>R. Li, Pennsylvania State University</b></p>
<p><b>15:30</b> TH19.2  Validation Procedure of the Sylvania Lawry Centre for MS Research: Methodological and Practical Aspects  <b>U. Held, Sylvania Lawry Centre for Multiple Sclerosis Research</b></p>	<p><b>15:25</b> TH20.2  Modeling Incomplete Functional Data Using Wavelet-Based Functional Mixed Models  <b>J.S. Morris, University of Texas</b></p>
<p><b>16:00</b> TH19.3  Assessment and Validation of Risk Prediction Models  <b>M. Schumacher, Universität Freiburg</b></p>	<p><b>15:50</b> TH20.3  Robust and Influence Analysis in Linear Mixed-Effects Models  <b>P.X.-K. Song, University of Waterloo</b></p>
<p><b>16:30 J. Petkau (Discussant)</b>  <i>University of British Columbia</i></p>	<p><b>16:15</b> TH20.4  Accounting for Correlation Structure in Marginal Semiparametric Kernel Regression  <b>N. Wang, Texas A&amp;M University</b></p>

## CONTRIBUTED SESSIONS

	<b>TH21 Capture/Recapture Methods</b>	<b>TH22 Survival Analysis III</b>	<b>TH23 Adaptive And Sequential Methods</b>	<b>TH24 Microarray Data II</b>
	<b>Chair: S.J. Smith</b> <b>Room WA125</b>	<b>Chair: P. Clarke</b> <b>Room LEA232</b>	<b>Chair: E. Goetghebeur</b> <b>Room WA120</b>	<b>Chair: R. Nadon</b> <b>Room LEA219</b>
<b>15:00</b>	TH21.1 The Combined Analysis of Multisite Mark-Recapture-Recovery and Census Data <b>R.S. Borysiewicz</b> , <i>University of Kent</i>	TH22.1 Penalized Likelihood Approach in a Mixture Cure Model <b>P. Joly</b> , <i>Université Bordeaux 2</i>	TH23.1 Confidence Intervals and Point Estimates following an Adaptive Group Sequential Test <b>C. Mehta</b> , <i>Cytel Inc.</i>	TH24.1 Normalization and Mixed-model Analysis of Novel Multi-species Microarrays to Measure the Evolution of Gene Expression in Primates <b>A. Oshlack</b> , <i>Walter and Eliza Hall Institute</i>
<b>15:15</b>	TH21.2 Marginal Capture-Recapture Modelling <b>E.L. Turner</b> , <i>McGill University</i>	TH22.2 Density and Hazard Rate Estimation for Censored Data Using Gamma Kernels <b>T. Bouezmarni</b> , <i>HEC</i>	TH23.2 New Allocation Rule for Repeated Measurement Designs <b>Y. Liang</b> , <i>University of Alberta</i>	TH24.2 Microarray Analysis Detecting Small Changes in Gene Expression Shows Involvement of Bone Remodeling in Osteoarthritis <b>A. Tsykin</b> , <i>Hanson Institute</i>
<b>15:30</b>	TH21.3 On the Bayesian Estimation of a Closed Population Size in the Presence of Heterogeneity and Model Uncertainty <b>R. King</b> , <i>University of St. Andrews</i>	TH22.3 Nonparametric Regression Analysis of Restricted Means and Quantiles in the Presence of Right Censored Data <b>K.D. Rudser</b> , <i>University of Washington</i>	TH23.3 Implementing Two-Stage Tests <b>M. Vandemeulebroecke</b> , <i>Schering AG and Otto-von-Guericke-Universität</i>	TH24.3 Prediction of Cancer Outcome with Microarrays: How Good Can it Get? <b>S. Michiels</b> , <i>Institut Gustave Roussy</i>
<b>15:45</b>	TH21.4 A Migration Model with Tag Loss <b>L. Cowen</b> , <i>University of Victoria</i>	TH22.4 An Analysis of Clustered Survival Data Using a Nonparametric Bayesian Hierarchical Model with a Dirichlet Process Prior <b>S.O.M. Manda</b> , <i>University of Leeds</i>	TH23.4 Proof of Concept Trials <b>A.L. Gould</b> , <i>Merck Research Laboratories</i>	TH24.4 Sampling Genes or Sampling Patients? Strategies for Finding Differentially Expressed Gene Sets <b>J.J. Goeman</b> , <i>Leiden University Medical Center</i>
<b>16:00</b>	TH21.5 Local Weather Covariates for Wild Animal Survival <b>D.I. Brown</b> , <i>University of Kent</i>	TH22.5 A Random Time Interval Approach for Analysing the Impact of a Possible Intermediate on a Terminal Event <b>J. Beyersmann</b> , <i>Freiburg University</i>	TH23.5 Sequential Determination of Sample Size for Robust Linear Regression: Application to Microarray Experimental Design <b>L. Briollais</b> , <i>University of Bordeaux I and UMR CNRS</i>	TH24.5 A Powerful Strategy for Detecting Differentially Expressed Genes <b>B. Moerkerke</b> , <i>Ghent University</i>
<b>16:15</b>	TH21.6 A New Approach to Modelling Case-history Data with Missing Individual Covariates <b>B.J.T. Morgan</b> , <i>University of Kent</i>	TH22.6 Multi-Split Tree-Based Method in Survival Analysis <b>T. Shimokawa</b> , <i>University of Yamanashi</i>	TH23.6 Sequential Testing of Hypotheses within the Same Stage of a Multi-Stage Phase II Design <b>S. Pouloupoulou</b> , <i>Samuel Lunenfeld Research Institute</i>	TH24.6 A Knowledge-Based Extension of SAM to Identify Biological Pathways Associated with a Phenotype <b>Y. Yasui</b> , <i>University of Alberta</i>
<b>16:30</b>	TH21.7 Estimation of Births Deaths and Immigration from Mark-Recapture Data <b>R.B. O'Hara</b> , <i>University of Helsinki</i>	TH22.7 Multi-state Models and Predictive Survival Process <b>M.L. Calle</b> , <i>Universitat de Vic</i>	TH23.7 Design Extensions of Experiments With Normally Distributed Outcome and Unknown Variance <b>H.-H. Müller</b> , <i>Institute of Medical Biometry and Epidemiology Philipps-University</i>	TH24.7 A New Method for the Detection of Breakpoints and Gene Copy Number Changes in Array CGH Data <b>M.G. Schimek</b> , <i>Medical University of Graz</i>

INVITED SESSION		CONTRIBUTED SESSION	
<b>F1</b>	<b>Infectious Diseases: Analysis Of Data And Models</b>	<b>F2</b>	<b>Microarray Data III</b>
	<b>Organizer: Jacco Wallinga</b> <b>Chair: Jacco Wallinga</b> <b>Room: LEA132</b>		<b>Chair: J. Hanley</b> <b>Room: LEA026</b>
<b>08:00</b>	F1.1 Infections with Varying Contact Rates: Application to Varicella <b>H.J. Whitaker, Open University</b>	<b>08:00</b>	F2.1 Analysis of Microarray Data: A Mixed-model Finite-mixture Approach <b>P.C. Thomson, University of Sydney</b>
<b>08:30</b>	F1.2 The Role of Immunity: Understanding the Data <b>N. Nagelkerke, United Arab Emirates University</b>	<b>08:15</b>	F2.2 Kinetics Analysis of Microarray Data Using Semiparametric Mixed Models <b>C. Robert-Granie, INRA - SAGA</b>
<b>09:00</b>	F1.3 Investigating Transmission Parameters of Communicable Diseases from Longitudinal Data: The Example of Pneumococcal Carriage in Schools <b>S. Cauchemez, Imperial College</b>	<b>08:30</b>	F2.3 A Comparison of Parametric and Nonparametric Methods of Normalising Microarray Data <b>M.R. Khondoker, Biomathematics &amp; Statistics Scotland</b>
<b>09:30</b>	<b>Floor Discussion</b>	<b>08:45</b>	F2.4 Variance Component Estimation in Microarray Experiments Involving Pooling <b>C.M. Thompson, University of Louisville</b>
		<b>09:00</b>	F2.5 An Adaptive Empirical Bayesian Thresholding Procedure for Analysing Microarray Data <b>R.E Walls, University of Leeds</b>
		<b>09:15</b>	F2.6 Gene Clustering as a Method to Improve Prediction of Missing Values in Microarrays <b>G. Feten, Norwegian University of Life Sciences</b>
		<b>09:30</b>	F2.7 Sample Size Planning for Developing Classifiers Using High Dimensional DNA Microarray Data <b>K.K. Dobbin, National Cancer Institute</b>



## CONTRIBUTED SESSIONS

	<b>F3 Robustness, Sensitivity and Influence</b> <b>Chair: D. Zelterman</b> <b>Room WA125</b>	<b>F4 Health Policy and Health Services</b> <b>Chair: U. Held</b> <b>Room LEA232</b>	<b>F5 Joint Longitudinal and Survival Models</b> <b>Chair: R.J. Cook</b> <b>Room WA120</b>	<b>F6 Functional Data Analysis</b> <b>Chair: J.O. Ramsay</b> <b>Room LEA219</b>
<b>08:00</b>	F3.1 Robust Estimation in Multinomial Logit Models <b>E. Oral</b> , <i>Middle East Technical University</i>	F4.1 Accounting for the Sampling Variability of the Ranking of Mortality Ratios <b>A. Perez</b> , <i>University of Texas</i>	F5.1 Nonlinear Latent Class Model for Joint Modeling of Multivariate Longitudinal Data and Time-to-Event Data <b>H. Jacqmin-Gadda</b> , <i>INSERM E338 France</i>	F6.1 Application of Functional Data Analysis to Assess how Visual Cues Affect Flight Speed in the Honeybee <b>A. Cowling</b> , <i>Australian National University</i>
<b>08:15</b>	F3.2 Influence Function for Phylogenetic Trees <b>A. Bar-Hen</b> , <i>INA-PG</i>	F4.2 Development of a Diagnostic Tool for a Childhood Psychological Disorder using Multivariate Statistical Analysis <b>D. Young</b> , <i>University of Strathclyde</i>	F5.2 Bayesian Analysis for Joint Modelling of Longitudinal Data and Survival Events in Mean-Covariance Model <b>Y. Bao</b> , <i>University of Manchester</i>	F6.2 Gaussian Process Functional Regression Modelling for Batch Data <b>J.Q. Shi</b> , <i>University Of Newcastle</i>
<b>08:30</b>	F3.3 Efficient and Robust Pre-Processing Methods for Handling Multiple Observations per Cell in a Two-way Table <b>N. Malo</b> , <i>Genome Quebec Innovation Centre</i>	F4.3 A Completely Different Approach to Sample Size Planning <b>P. Bacchetti</b> , <i>University of California</i>	F5.3 Joint Modelling of Recurring and Terminating Events: Application to Cancer <b>V. Rondeau</b> , <i>INSERM E0338 Université V. Segalen Bordeaux 2</i>	F6.3 Diagnostics and Model Building for Dynamic Systems <b>D. Campbell</b> , <i>McGill University</i>
<b>08:45</b>	F3.4 Halfplane Location Depth in Statistical Shape Analysis <b>S. Katina</b> , <i>Comenius University</i>	F4.4 Assessing Migrants and Refugee Access to Reproductive Health Services in Botswana <b>N.O. Ama</b> , <i>University of Botswana</i>	F5.4 Practical Considerations in Spline Proportional Hazards Modelling with Time-Dependent Covariates <b>A. Kawaguchi</b> , <i>Kurume University</i>	F6.4 Statistical Inference for A Predator-Prey Dynamical System <b>J. Cao</b> , <i>McGill University</i>
<b>09:00</b>	F3.5 The Power of Kappa <b>A. Blance</b> , <i>University of Leeds</i>	F4.5 Total Quality Test to Overcome Worker Inadequacies: An Application in an Italian Hospital <b>C. Scarinzi</b> , <i>University of Torino</i>	F5.5 The Effect of Follow-Up Frequency in Data with Informative Dropout <b>R.B. Geskus</b> , <i>Municipal Health Service</i>	F6.5 Diagnostics and Model Building in Differential Equations <b>G. Hooker</b> , <i>McGill University</i>
<b>09:15</b>	F3.6 Extend Minimum Density Power Divergence Estimates to Discrete Data Problems <b>C. Yu</b> , <i>Vanderbilt University</i>	F4.6 The Use of Multiple Imputation to Predict Mortality by Acute Myocardial Infarction <b>A.A. Tahami Monfared</b> , <i>McGill University Health Center</i>	F5.6 Mark-Specific Proportional Hazards Modeling <b>Y. Sun</b> , <i>University of North Carolina at Charlotte</i>	F6.6 Functional Data Analysis of Haemoglobin Control in Dialysis Patients <b>R.M. West</b> , <i>University of Leeds</i>
<b>09:30</b>	F3.7 Sensitivity Analysis of Progression-free Survival with Dependent Censoring <b>P.K. Ruan</b> , <i>Harvard University</i>	F4.7 Assessing Populations Choice for Social Network Size Estimation in Scale-up Methodology <b>P. Berchialla</b> , <i>University of Torino</i>	F5.7 A Joint Longitudinal and Survival Model for Flexibly Incorporating Nonproportional Hazards <b>D.L. Gillen</b> , <i>University of California</i>	F6.7 'Rolled-upness' <b>J.T. Wood</b> , <i>Australian National University</i>
<b>09:45</b>	<b>Refreshment Break / Exhibits</b>			

INVITED SESSION		CONTRIBUTED SESSION	
<b>F7</b>	<b>Statistical Analysis Of Array-CGH Experiment Data</b> <b>Organizer: Byung Soo Kim</b> <b>Chair: Byung Soo Kim</b> <b>Room LEA132</b>	<b>F8</b>	<b>Adaptive Designs in Clinical Trials</b>  <b>Chair: R. Platt</b> <b>Room LEA026</b>
<b>10:15</b>	F7.1 Detection of Gene Copy Number Changes in CGH Microarrays Using a Spatially Correlated Mixture Model <b>P. Broet, Université Paris-XI INSERM U472</b>	<b>10:15</b>	F8.1 Customization of Probabilistic Baseline Covariate Adaptive Randomizations for Clinical Trials <b>E.R. Miller, Interactive Clinical Technologies Inc.</b>
<b>10:35</b>	F7.2 Understanding Genomic Aberrations through Array CGH Data <b>C. Myers, Princeton University</b>	<b>10:30</b>	F8.2 Interim Analysis for Trials Designed Using the Expected Value of Information <b>A.R. Willan, SickKids Research Institute</b>
<b>11:05</b>	F7.3 Application of Copy Number Transitions Finder to the Analysis of the Tumor Copy Number Data and to Mapping Sequence Variations in Mice Using Bac Array CGH <b>J. Fridlyand, UCSF Cancer Research Institute</b>	<b>10:45</b>	F8.3 An Adaptive Approach to Designing Longitudinal Clinical Trials <b>W. Yuan, U.S. Food and Drug Administration</b>
<b>11:25</b>	F7.4 Molecular Prognostic Predictor of Gastric Cancer Based on DNA Copy Number Change and Gene Expression <b>S. Lee, Sejong University</b>	<b>11:00</b>	F8.4 Optimal Adaptive Designs in Phase-II Trials <b>A. Banerjee, North Carolina State University</b>
<b>11:45</b>	<b>J. Quackenbush, (Discussant)</b> <i>Dana-Farber Cancer Institute</i>	<b>11:15</b>	F8.5 Testing for Secondary Endpoint When Primary Endpoint Wins in Clinical Trial either Terminated or Extended <b>H.M.J. Hung, U.S. Food and Drug Administration</b>
		<b>11:30</b>	F8.6 Sample Size Re-calculation Based on the Observed Treatment Difference at an Interim Look <b>K. Uemura, University of Tokyo</b>
		<b>11:45</b>	F8.7 Estimation after the Group Sequential Design of a Phase 2 Biomarker Study <b>Z. Feng, Fred Hutchinson Cancer Research Center</b>

## CONTRIBUTED SESSIONS

	<b>F9 Meta-Analysis II</b>	<b>F10 Measurement Error</b>	<b>F11 Categorical Data</b>	<b>F12 Multivariate Survival Analysis</b>
	<b>Chair: K. Mengersen</b> <b>Room WA125</b>	<b>Chair: Y. Yasui</b> <b>Room LEA232</b>	<b>Chair: N. Cressie</b> <b>Room WA120</b>	<b>Chair: J. Fine</b> <b>Room LEA219</b>
<b>10:15</b>	F9.1 Bayesian Meta-analysis Models for Genetic Associations <b>K. Mengersen</b> , <i>Queensland University of Technology</i>	F10.1 Adjusting for Multivariate Measurement Error in Meta-Analyses <b>A. Wood</b> , <i>MRC Biostatistics Unit</i>	F11.1 Combining Multiple Sources of Information to Better Estimate Covariate Effects on the Probability of a Rare Event <b>P.M. Dixon</b> , <i>Iowa State University</i>	F12.1 An Old-New Family of Multivariate Distributions for Left Truncated and Right Censored Data <b>S.T. Gross</b> , <i>Bernard M. Baruch College of the City University of New York</i>
<b>10:30</b>	F9.2 Meta-Analysis of Diagnostic Test ROC Curve Data <b>T. Stijnen</b> , <i>Erasmus University Medical Center</i>	F10.2 A Measure for the Reliability of a Rating Scale Based on Longitudinal Clinical Trial Data <b>A. Laenen</b> , <i>Hasselt University</i>	F11.2 Semiparametric Bayesian Analysis of Misclassified Binary Data <b>A. Jara</b> , <i>Catholic University of Leuven</i>	F12.2 Expected Cumulative Incidence in the Presence of Competing Risks <b>R. Giorgi</b> , <i>Université de la Méditerranée</i>
<b>10:45</b>	F9.3 Adjusting for Clustering in Meta-analyses of Individually-Randomized Trials <b>G.P.S. Kwong</b> , <i>MRC Biostatistics Unit</i>	F10.3 Using Aggregate-level Data to Calibrate Error-Prone Variables, with Application to Measuring Diet <b>D.C. Greenwood</b> , <i>Biostatistics Unit</i>	F11.3 A Score Test for Overdispersion Based on the Generalized Poisson Model <b>Z. Yang</b> , <i>University of South Carolina</i>	F12.3 Sensitivity Analysis in Case Series with Two Correlated Recurrent Outcomes <b>M. Hocine</b> , <i>Université Paris-Sud II</i>
<b>11:00</b>	F9.4 Reporting Bias in Systematic Reviews: A Bayesian Meta-analysis of 50 Years of Ruptured Abdominal Aortic Aneurysm Repair <b>L.A.L.W. Jayasekara</b> , <i>University of Warwick</i>	F10.4 A Bayesian Method for Mixture of Shared Measurement Error Model in Relation to Disease Risk and Exposure to Radioactive Fallout from Nevada Test Site <b>X. Sheng</b> , <i>University of Utah</i>	F11.4 Choice of the Scores for Testing the Association in Ordered RxC Contingency Tables with Open-Ended Categories <b>S. Aktas</b> , <i>Hacettepe University</i>	F12.4 Estimation of the Marginal Causal Effects of Initial and Salvage Treatments for Recurrent Diseases <b>X. Huang</b> , <i>MD Anderson Cancer Center</i>
<b>11:15</b>	F9.5 Meta-analysis of Clinical Trials with Homogeneity of Variances of Treatment Effects <b>A. Hajivandi</b> , <i>Bushehr University of Med. Sciences</i>	F10.5 Validation of Surrogate Endpoints in the Presence of Measurement Error <b>N. Benda</b> , <i>Schering AG</i>	F11.5 Distributions for Sums of Exchangeable Bernoulli Random Variables <b>D. Zelterman</b> , <i>Yale University</i>	F12.5 Estimation in a Model of Recurrent Events in the Presence of a Terminal Event and Independent Censoring <b>S. Geffray</b> , <i>University Paris VI</i>
<b>11:30</b>	F9.6 Evaluating the Quality of Clinical Trials in Primary Treatment of Brain Tumors <b>L. Thabane</b> , <i>McMaster University</i>	F10.6 Estimating and Testing Interactions in Linear Regression Models when Explanatory Variables are Subject to Classical Measurement Error <b>H. Murad</b> , <i>Bar Ilan University</i>	F11.6 Estimation of Additive Risk Regression Models for Binary Data <b>S. Natarajan</b> , <i>New York University and the VA New York Harbor Healthcare System</i>	F12.6 An IPCW Estimator for Ordered Failure Times Subject to a Common Censoring Process <b>C. Serrat</b> , <i>Universitat Politècnica de Catalunya</i>
<b>11:45</b>	F9.7 A Method for Estimating the Agreement in Primary Study Selection Between Systematic Reviews <b>J.M. Bland</b> , <i>University of York</i>	F10.7 Type I Error in the McNemar's Test Applied to the Lab-Driven Medical Diagnosis in the Presence of Multiple Measurement Errors and Detection Limit <b>L.A. Hubicki</b> , <i>Medical University of Silesia</i>	F11.7 Comparative Assessment of Statistical Tools for Handling Categorical Response Variables from Farmer Participatory Trials <b>P.G.O. Weke</b> , <i>University of Nairobi</i>	F12.7 Dependence Evaluation for Multilevel Models in Survival Data <b>A.C. Pedroso-De-Lima</b> , <i>University of São Paulo</i>
<b>12:00</b>	<b>Lunch / Exhibits</b>			

INVITED SESSION		TOPIC CONTRIBUTED SESSION	
<b>F13</b>	<b>Innovative Bayesian Computation For Biometrical Applications</b> <b>Organizer: Tony Pettitt</b> <b>Chair: Tony Pettitt</b> <b>Room: LEA132</b>	<b>F14</b>	<b>A Practicum On Interval Censoring</b>  <b>Organizer: Rick Chappell</b> <b>Chair: Rick Chappell</b> <b>Room: LEA026</b>
<b>13:00</b>	F13.1 Some Comments on Approximate Bayesian Computation <b>S. Tavaré</b> , <i>University of Southern California</i>	<b>13:00</b>	F14.1 Introduction to Interval Censoring <b>R. Chappell</b> , <i>University of Wisconsin</i>
<b>13:25</b>	F13.2 From Sources to Biomarkers: A Hierarchical Bayesian Approach for Human Exposure Modeling <b>N. Cressie</b> , <i>Ohio State University</i>	<b>13:15</b>	F14.2 Nonparametric and Semiparametric Analysis of Interval-censored Data <b>J. Sun</b> , <i>University of Missouri</i>
<b>13:50</b>	F13.3 Markov Chain Methods in Population Ecology <b>S. Brooks</b> , <i>The Statistical Laboratory, CMS</i>	<b>13:45</b>	F14.3 Fitting Multi-state Models with Interval Censored Data <b>R.J. Cook</b> , <i>University of Waterloo</i>
<b>14:15</b>	<b>K. Mengersen (Discussant)</b> , <i>Queensland University of Technology</i>	<b>14:15</b>	F14.4 Why Bother with Nonparametric Estimators? <b>J. Fine</b> , <i>University of Wisconsin</i>
<b>14:30</b>	<b>R. Boys (Discussant)</b> , <i>University of Newcastle</i>		

## CONTRIBUTED SESSIONS

	<b>F15 Epidemiological Research II</b>	<b>F16 Diagnostic And Screening Tests II</b>	<b>F17 Population Genetics</b>	<b>F18 Clustering And Classification</b>
	<b>Chair: L. Jamieson Room WA125</b>	<b>Chair: P. Macaskill Room LEA232</b>	<b>Chair: T. Ramsay Room WA120</b>	<b>Chair: J. Fridlyand Room LEA219</b>
<b>13:00</b>	F15.1 A Model-based Approach to Reconstructing the Incidence of Human Immunodeficiency Virus (HIV) and Estimating the Survival Function with Doubly Censored AIDS Data in Iran <b>N. Shakeri, Delhi University</b>	F16.1 Simultaneous Comparisons of Accuracy, Sensitivity, and Specificity in Diagnostic Trials: Closed Test Procedures with A Priori Ordered Hypotheses <b>S. Chang, Berlex Inc.</b>	F17.1 A Penalized Likelihood Framework for Haplotype Probability Estimation <b>P.H.C. Eilers, Leiden University Medical Centre</b>	F18.1 A Method for Identifying Subtypes of Parkinson's Disease Based on UPDRS Measurements <b>P. Guimaraes, Medical University of South Carolina</b>
<b>13:15</b>	F15.2 Applying Bootstrap in Multilevel Modelling of Cardiovascular Disease <b>L. Li, Macquarie University</b>	F16.2 Combining Diagnostic Tests by Using Multivariate Logistic Regression for Optimal Classification and Application: Application to Chronic Hepatitis B Data <b>M. Özkan, University of Ankara</b>	F17.2 Composite Likelihood in Fine Genetic Mapping <b>F. Larribe, Université du Québec à Montréal</b>	F18.2 Persistent Disturbing Behavior: Clustering Longitudinal Profiles <b>L. Bruckers, Hasselt University</b>
<b>13:30</b>	F15.3 Role of Islet-Cell Antibodies as Time-Dependent Covariates in the Development of Type 1 Diabetes in Nondiabetic Relatives of Type 1 Diabetic Patients <b>S. Yu, University of Pittsburgh</b>	F16.3 Comparing Diagnostic Tests: Test of Hypothesis Using Likelihood Ratios <b>A. Barak, Hacettepe University</b>	F17.3 Identification Of The Genetic Model When Using Trend Tests for Case-Control Studies of Genetic Markers <b>L.A. Hothorn, University Of Hannover</b>	F18.3 Graphical Models in Medical Research: An Example of Classification <b>G. Eslava, National University of Mexico</b>
<b>13:45</b>	F15.4 Hierarchical Logistic Regression in a Multicentric Study of Multiple Dietary Effects on a Disease Outcome: a Fully Bayesian Approach <b>G. Roli, University of Bologna</b>	F16.4 Use of Information Theory when Disease State has Three Categories <b>U. Arslan, Hacettepe University</b>	F17.4 Identification of the Gene-Gene Interactions in the Presence of Missing Data : Multifactor Dimensionality Reduction Approach <b>T. Park, Seoul National University</b>	F18.4 On Comparing the Clustering of Regression Models Method with K-means Clustering <b>L.X. Qin, Memorial Sloan-Kettering Cancer Center</b>
<b>14:00</b>	F15.5 Methodological Issues to Evaluate the Short-term Health Effects of Weather Conditions: the PHEWE Project <b>A. Biggeri, University of Florence</b>	F16.5 Diagnostic Performance of Breast Cancer Screening Tests in the Absence of a Gold Standard <b>M. Colak, Baskent University</b>	F17.5 Genetic Dissection of a Complex Trait: Binary End-points Versus Multivariate Phenotypes <b>S. Ghosh, Indian Statistical Institute</b>	F18.5 Potts Model Clustering <b>A. Murua, Université de Montréal</b>
<b>14:15</b>	F15.6 Statistical Approaches to Environmental Epidemiology of High Risk Areas. The Sardinia Region (Italy) Report <b>D. Catelan, University of Florence</b>	F16.6 Prevalence Estimators in Two-Phase Studies <b>G. Vilagut, Institut Municipal d'Investigació Mèdica</b>	F17.6 Sequence-Level Simulations with Gene Conversion, Recombination Hotspots and Selection <b>D.J. Balding, Imperial College London</b>	F18.6 Performance Evaluation of Normal Distribution-Based Classification Procedures <b>A.O. Adebajji, University of Agriculture</b>
<b>14:30</b>	F15.7 A Cluster Randomised Controlled Trial of a Continuing Education Programme to Increase General Practitioner Provision of Smoking Cessation Interventions <b>B.C. Pereira, Val D'Aurelle Regional Cancer Centre</b>	F16.7 Establishing an Equivalence/Non-inferiority Test in a Two-Outcome Situation <b>E.T. Jolayemi, University of Ilorin</b>	F17.7 Confidence Interval of Allelic Odds Ratios under the Hardy-Weinberg Disequilibrium <b>Y. Sato, Tokyo University of Science</b>	

# Posters

## Poster Session Summary

Monday July 17	Tuesday July 18	Thursday July 20
MP1 Methods for Correlated Data	TP1 Quantitative Methods in Agriculture	THP1 Methods for Categorical Data
MP2 Clinical Research and Basic Medical Science	TP2 Ecological Research, Environmental Research: Wildlife Forestry	THP2 Causal Inference
MP3 Public Health	TP3 Forestry Fishery Wildlife	THP3 Clustering and Classification
MP4 Clinical Trials	TP4 Genomics, Proteomics and Microarray Data	THP4 Epidemiological Methods
MP5 Diagnostic and Screening Tests	TP5 Genetics	THP5 Experimental Design
MP6 Epidemiological Research	TP6 Miscellaneous	THP6 Model Selection, Diagnostics, Robustness and Sensitivity
MP7 Health Services Research and Health Economics		THP7 Advances in Regression Methods
MP8 Infectious Diseases		THP8 Spatial Modelling
		THP9 Survival Analysis

**MONDAY, July 17**

**Posters 1**

**12:00 – 13:00**

### MP1 - Methods for Correlated Data

Poster No.

- MP1.101 Marginal Permutation Invariant Covariance Matrices in Linear Models with Applications in the Study of Knee Osteoarthritis  
**T. Nahtman**, *University of Tartu, Tartu, Estonia*
- MP1.102 Estimating Intraclass Correlation Coefficient from Elliptical Populations  
**S.E. Ahmed**, *University of Windsor, Canada*
- MP1.103 An Approach to Model Correlations between Binary Responses over Unequal Time Intervals  
**S.S. Thwin**, *Boston University, Boston, USA*
- MP1.104 A Cluster-Deletion Test for Leverage: An Intuitive, User-Friendly GEE Diagnostic  
**M. Wilchesky**, *McGill University, Montreal, Canada*
- MP1.105 On the Estimation of Fractional Transfer Coefficients in Compartmental Systems  
**G. Schinaia**, *University of Rome La Sapienza, Rome, Italy*
- MP1.106 A Non-Linear Cumulative Logit Mixed Model with Time Varying Phases and Covariates  
**J. Rajeswaran**, *Cleveland Clinic, Cleveland, USA*
- MP1.107 Sample Size For Case-Control Studies With Longitudinal Data  
**E. Park**, *Chonnam National University, Gwangju, Korea*
- MP1.108 Bayesian Modeling of the Mean and Covariance Matrix on Normal Nonlinear Models  
**E. Cepeda**, *Universidad Nacional de Colombia, Bogotá, Colombia*
- MP1.109 Study of US Treasury Market Using ARCH-M class Models Under Generalized Secant Hyperbolic Conditional Distributional Assumption  
**J. Hu**, *Northwestern University, New York, USA*
- MP1.110 SAS/IML for Parameters Estimation for Multistate Higher Order Covariate Dependent Markov Model  
**R. Chowdhury**, *Kuwait University, Kuwait*
- MP1.111 Predicting Longitudinal Ordered Response with Missing Data Using Bayesian Methods  
**R. Ghorbani**, *Semnan University of Medical Sciences, Semnan, Iran*
- MP1.112 Methods for Estimating Efficacy for Longitudinal Studies with Noncompliance  
**G. Yi**, *University of Waterloo, Waterloo, Canada*

- MP1.113 Creation and Interpretation Methodology for Modeling Complex Hierarchical Dynamic Systems in Epidemiology: Application to Study of Air-Pollution Health Effects  
**M. Friger**, *Ben-Gurion University of the Negev, Beersheba, Israel*
- MP1.114 Concordance Correlation Coefficient for Overdispersed Count Data  
**J. Carrasco**, *Universitat de Barcelona, Spain*
- MP1.115 Estimating the Comparability of Two Distinct Variables: How to Model Across Subjects and Repeated Measures  
**Sh. Zare**, *Hormozgan University of Medical Sciences, Bandar Abbas, Iran*
- MP1.116 Optimal Designs of Clinical Trials with Second-order Polynomial Treatment Effects  
**B. Winkens**, *Maastricht University, Maastricht, The Netherlands*
- MP1.117 Comparison of the Gee Model and Logistic Regression in Determining Factors Related to Back Pain in Iran  
**K. Nourijelani**, *Tehran University of Medical Sciences, Tehran, Iran*
- MP1.118 A Likelihood Approach to Estimating Sensitivity and Specificity with Binocular Diagnostic Data: Application in Ophthalmology  
**A. De Leon**, *University of Calgary, Canada*

## MP2 - Clinical Research and Basic Medical Science

Poster No.

- MP2.119 Statistical Analysis of Parameters Characterizing Neurological Dysfunction in Newborns  
**G. Ristic**, *University of Nis, Nis, Serbia*
- MP2.120 The Effects of Sampling and Sample Preparation on Analytical Sensitivity  
**R.A. Lewis**, *Chiron Corporation, Emeryville, USA*
- MP2.121 Pattern Recognition Techniques for Breast Cancer Prediction  
**C. Enachescu**, *Institute of Mathematical Statistics & Applied Mathematics, Bucharest, Romania*
- MP2.122 Assessing Changes in the fMRI Visual Field Map after Surgery for Epilepsy  
**R.G. Hoffmann**, *Medical College Of Wisconsin, Milwaukee, USA*
- MP2.123 Statistical Analysis of Electrophoresis Results in External Quality Assessment Schemes  
**A. Albert**, *University of Liège, Liège, Belgium*
- MP2.124 Exploration of Aflatoxin Concentrations in Breast Milk using Functional Data Analysis  
**K. Harris**, *University of Leeds, UK*
- MP2.125 Can Subjective Measurements Predict Lymphedema?  
**J.L. Palmer**, *University of Texas, M.D. Anderson Cancer Center, Houston, USA*
- MP2.126 Identification of the Mode of Action of Carcinogens  
**A. Kopp-Schneider**, *German Cancer Research Center, Heidelberg, Germany*

## MP3 - Public Health

Poster No.

- MP3.127 Bullying and Victimization Behaviors in Boys and Girls in Primary Schools, Bandar Abbas, Iran  
**F. Nikoosfat Jahromi**, *Hormozgan University of Medical Sciences, Bandar Abbas, Iran*
- MP3.128 The Impact of Underreporting and Bias in Spontaneous Reporting Systems on the Assessment of Drug-Event Associations and Drug-Drug Interactions  
**D. Parks**, *GlaxoSmithKline Pharmaceuticals R&D, Collegeville, USA*
- MP3.129 Prognostic Factors for Short- and Long-Term Graft Survival in Kidney Transplantation in Estonia  
**U. Kirsimagi**, *University of Tartu, Estonia*
- MP3.130 Estimating Health Care Seeking Delays from Interview-Reported Illness Durations  
**R. Heinmüller**, *Agence d'évaluation des technologies et des modes d'intervention en santé, Montreal, Canada*

- MP3.131 Evaluation of Knowledge about Oral Health in Brazilian Students Via Item Response Theory  
**M.L.M.M. Sundefeld**, *University of São Paulo State, Aracatuba, São Paulo, Brazil*

**MP4 - Clinical Trials**

Poster No.

- MP4.132 Sample Size Determination of Efficacy and Safety Comparisons with Bivariate Nonparametric Tests  
**J.A. Lee**, *Catholic University of Korea, Seoul, Korea*
- MP4.133 Need for and Modifications in Clinical Trial Methodology for Evaluation of Indigenous Treatments/Medicinal Drugs  
**S. Sarmukaddam**, *MIMH, B.J.Medical College & Sassoon Hospital, Pune, India.*
- MP4.134 Sample Size Estimation for the Randomized Parallel Group Study with Count Data  
**H. Uehara**, *Tsumura & Company, Tokyo, Japan*
- MP4.135 From Non-Inferiority to Superiority  
**K.F. Yee**, *UCB Pharma, Smyrna, USA*
- MP4.136 A Proposal of an Approximate One-Sided Test in Clinical Trials with Multiple Endpoints  
**Y. Nakazuru**, *Japan Tobacco Inc., Tokyo, Japan*

**MP5 - Diagnostic and Screening Tests**

Poster No.

- MP5.137 Conditional ROC Curve Estimation  
**I. López de Ullibarri**, *Universidade da Coruña, A Coruña, Spain*
- MP5.138 Latent Class Models in Diagnosis of Cerebrovascular Illness  
**K. Subbakrishna**, *National Institute Of Mental Health And Neuro Sciences*
- MP5.139 Evaluating the Predictivess of a Continuous Marker with Case-Control Data  
**Y. Huang**, *University of Washington, Seattle, USA*
- MP5.140 Differentiating Major Depressive Disorder in Youths with Attention Deficit Hyperactivity Disorder  
**A. Lopez**, *University of Pittsburgh, USA*
- MP5.141 Bayesian Methods for Adjustment of Verification Bias  
**Y. Lu**, *McGill University, Montreal, Canada*
- MP5.142 Confidence Intervals and Regions for Diagnostic Test Likelihood Ratios  
**D.E. Matthews**, *University of Waterloo, Canada*
- MP5.143 Graphical Interpretation of Diagnostic Tests using the Agreement Chart and Receiver Operating Characteristic (ROC) Curves  
**S. Bangdiwala**, *University of North Carolina, Chapel Hill, USA*

**MP6 - Epidemiological Research**

Poster No.

- MP6.144 Family Physicians' Characteristics that May Be Associated with Utilization of Bmd Testing in High-Risk Patients: Canadian Quality Circles (CQC) National Project  
**G. Ioannidis**, *McMaster University, Hamilton, Canada*
- MP6.145 Smoking Trajectories of Adolescent Novice Smokers in a Longitudinal Study of Tobacco Use  
**I. Karp**, *McGill University, Montréal, Canada*
- MP6.146 Simple Anthropometric Measures Predict Fasting Hyperinsulinemia and Clustering of Cardiovascular Risk Factors in Asian Indian Adolescents  
**R.M. Pandey**, *All India Institute of Medical Sciences, New Delhi, India*
- MP6.147 Modeling the Joint Effect of Depression and Chronic Somatic Conditions on Disability  
**N. Schmitz**, *Douglas Hospital Research Centre, McGill University, Montreal, Canada*



- MP6.148 Flexible Two-Phase Studies in Epidemiology  
**P. Wild**, *National Institute for Research and Safety, Vandoeuvre, France*
- MP6.149 A National Multicenter Study of Heroin Dependents to Evaluate the Impact of Treatments on Mortality; Handling Missing Data  
**P. Schifano**, *ASL RME, Rome, Italy*
- MP6.150 Atlas of Chilean Cardiovascular Disease Mortality 1997-2003  
**L. Nuñez**, *Universidad de Talca, Talca, Chile*
- MP6.151 A Cerebral Palsy Analysis and its Underlying Causes of Death: A Competing Risks Approach.  
**J. Anzures-Cabrera**, *MRC Biostatistics Unit, Cambridge, UK*
- MP6.152 Duration Bias in the Analysis of Survival Data  
**D. Cournoyer**, *Montreal General Hospital, Montreal and McGill University, Montreal, Canada*
- MP6.153 A Time-Dependent Cox Regression Model to Determine the Effectiveness of Planned Duration of Residential Drug Abuse Treatment  
**G. Okyere**, *University of Nevada, Reno, USA*
- MP6.154 Identifying Response Shift Statistically at the Individual Level  
**S.C. Scott**, *McGill University Health Center, Montreal, Canada*
- MP6.155 Reproducibility of the Genotype-Phenotype Associations in Case-Control Studies: Study Designs and Statistical Considerations  
**K Kopciuk**, *Alberta Cancer Board, Calgary, Canada*
- MP6.156 Selecting the Best Treatment for the Patient's Disease  
**A. Morabito**, *University of Milan, Italy*
- MP6.157 Effects of Lifestyle Modification on Cardiac Risk Factors Associated with Metabolic Syndrome: Systematic Review and Meta-Analysis  
**K. Yamaoka**, *National Institute of Public Health, Saitama, Japan*

### MP7 - Health Services Research and Health Economics

Poster No.

- MP7.158 Estimation of Medical Expenditure Threshold Exceedance Using a Bayesian 'SQUARE' Approach  
**S. Venturini**, *Università Bocconi, Milan, Italy*
- MP7.159 Weighted GLMs for Censored Medical Costs  
**J.C. Hopewell**, *MRC Biostatistics Unit, Cambridge, UK*
- MP7.160 Efficiency Analysis Using Data Envelopment Analysis (DEA) Technique: A Story of 28 Clinics in Gülhane Military Medical Academy  
**M. Akyol**, *Gülhane Military Medical Academy, Ankara, Turkey*
- MP7.161 Using Growth Modeling to Study Correlates of Health Changes in the Elderly  
**M.-F. Dubois**, *Université de Sherbrooke, Sherbrooke, Canada*
- MP7.162 Counting the Undercount: Enumeration of Primary Homeless in Adelaide Using Capture-recapture  
**Y. Wang**, *University of South Australia, Australia*
- MP7.163 Variations in the Utilization of Revascularization Among Acute Myocardial Infarction Patients in New York City  
**A. Negassa**, *Albert Einstein College of Medicine, New York, USA*
- MP7.164 Evidence Based Hospital Performance Assessment - A Comprehensive Indices Scores Evaluation System  
**J. Li**, *St. Michael's Hospital, University of Toronto, Toronto, Canada*

**MP8 - Infectious Diseases**

Poster No.

- MP8.165 Mood Disturbance and Neuropsychological Performance in HIV-1 Infected Population:  
The Impact of Aging, Gender, IDU, and Education  
**Y. Yang**, *Vertex Pharmaceutical Inc., Cambridge, USA*
- MP8.166 The Estimation of Model Parameters for an SIS Disease Infection Process  
**H. Mwambi**, *University of KwaZulu-Natal, Pietermaritzburg, South Africa*
- MP8.167 Bayesian Inference for 2001 Britain Foot and Mouth Epidemic  
**I. Chis Ster**, *Imperial College London, UK*
- MP8.168 Estimating the Illness Stage-Specific Infectiousness of Smallpox  
**H. Nishiura**, *University of Tübingen, Tübingen, Germany*
- MP8.169 Identification of Psychosocial Determinants of Intent to use Condoms Amongst Young Rwandans  
**A. Nt. Rumenge**, *Kigali Health Institute, Kigali, Rwanda*
- MP8.170 Survival Factors for HIV/AIDS Patients in Thailand  
**M. Tiensuwan**, *Mahidol University, Bangkok, Thailand*

**TP1 - Quantitative Methods in Agriculture**

Poster No.

- TP1.201 Error Structures in Biplot Analysis of Multi-Environment Trials  
**M. Balzarini**, *Universidad Nacional de Córdoba, Córdoba, Argentina*
- TP1.202 Use of Mixed Models to Classify Sites in Eucalyptus Urophylla Plantations in Venezuela's Western Plains  
**O. Carrero**, *Universidad de Los Andes, Venezuela*
- TP1.203 Use of Mixed Models to Develop Site Index Equations for Tectona Grandis Plantations in Venezuela's Western Plains  
**M. Jerez**, *Universidad de Los Andes, Mérida, Venezuela*
- TP1.204 Variance Component Analysis Based on Nested Multivariate Models as a Tool for Varietal Recommendations  
**M. Anputhas**, *International Water Management Institute, Colombo, Sri Lanka*
- TP1.205 Mixed Model, Manova and Sem Analysis of Growth in Three Crosses of Sheep  
**F.J. Babinec**, *Instituto Nacional de Tecnología Agropecuaria, Anguil, Argentina*
- TP1.206 Comparison of Genotypes from Ten Native Populations of Perennial Ryegrass when Assessed in Four Contrasting European Environments  
**M. Dhanoa**, *Institute of Grassland and Environmental Research, Aberystwyth, UK*
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Tsiotas, G. ....	T23.3
Tsykin, A. ....	TH24.2
Turner, E.L. ....	TH21.2
Tzortzios, S. ....	T17.4

## U

Uehara, H. ....	MP4.134
Uemura, K. ....	F8.6
Ukoumunne, O.C. ....	T23.6
Uludag, A.K. ....	THP7.354

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Vaillant, J. ....	T6.2
van der Knaap, H.C.M. ....	M6.4
Van Steen, K. ....	TH17.4
Vandemeulebroecke, M. ....	TH23.3
Vansteelandt, S. ....	M8.3
Venturini, S. ....	MP7.158
Verbitskaya, E.V. ....	THP3.317
Vierron, E. ....	T12.7
Vilagut, G. ....	F16.6
Volkov, O. ....	M6.2
von Rosen, D. ....	TH13.

## W

Wagenpfeil, S. ....	TH17.5
Walls, R.E. ....	F2.5
Walter, S.D. ....	M6.1
Wang, H. ....	THP9.370
Wang, N. ....	TH20.4
Wang, S.J. ....	T12.6
Wang, T. ....	M3.5
Wang, Y. ....	M12.7
Wang, Y. ....	MP7.162
Wang, Y.-G. ....	T21.5
Webster, R.A. ....	TP3.241
Weke, P.G.O. ....	F11.7
Wellmann, J. ....	M10.2
West, M. ....	M13.2
West, R.M. ....	F6.6
Whitaker, H.J. ....	THP4.329
White, I. ....	M1.1
Whitmore, G.A. ....	T7.2
Whittaker, J. ....	TH14.
Wijesuriya, W. ....	T9.5
Wilchesky, M. ....	MP1.104
Wild, C.J. ....	M16.6
Wild, P. ....	MP6.148
Willan, A.R. ....	F8.2
Williams, E.R. ....	T17.7
Williams, H.G. ....	TH5.2
Williams, O. ....	THP3.320
Williamson, J.M. ....	THP1.302
Winkens, B. ....	MP1.116
Winzer, N. ....	THP3.321
Wood, A. ....	F10.1

Wood, J.T. ....	F6.7
Wroughton, J. ....	M11.1
Wu, H. ....	T8.3
Wu, L.Y. ....	TP4.244

## X

Xiao, Y.L. ....	TH10.6
Xu, H. ....	TH11.5
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## Y

Yakovlev, A. ....	TH12.4
Yamaoka, K. ....	MP6.157
Yanagawa, T. ....	THP9.368
Yang, Y. ....	MP8.165
Yang, Z. ....	F11.3
Yasui, Y. ....	TH24.6
Yee, K.F. ....	MP4.135
Yi, G.Y. ....	MP1.112
Young, D. ....	F4.2
Young, L.J. ....	M16.5
Yu, C. ....	F3.6
Yu, S. ....	F15.3
Yuan, W. ....	F8.3
Yücel, A. ....	TP5.261

## Z

Zakeri, M. ....	THP3.325
Zare, Sh. ....	MP1.115
Zelterman, D. ....	F11.5
Zewotir, T. ....	T23.7
Zhang, B. ....	THP4.330
Zhang, J. ....	M4.3
Zhang, L. ....	T16.6
Zhang, Z. ....	T13.4
Zhao, Y. ....	M4.1
Zhou, H. ....	M2.4
Ziegler, A. ....	T18.5
Zocchi, S.S. ....	THP7.353
Zucknick, M. ....	T18.7
Zuma, K. ....	T16.4

# Social Activities

## Sunday, July 16

### Welcoming Reception

McGill University Campus  
17:00 – 19:00

Join your colleagues and mingle with other delegates in an outdoor setting (weather permitting) for refreshments and finger foods. Also take the opportunity to pick up your conference material.

## Monday, July 17

### Tourist Information Session

10:30  
Room: Arts 150

On Monday, July 17 at 10:30, a representative of the Tourism Office of the City of Montréal will hold a special one hour information session on city attractions and will answer any questions and distribute tourism information that may be helpful while in Montréal.

Open only for accompanying persons. There is no charge for attending the session. Complimentary beverages will be provided.

## Thursday, July 20

### Conference Dinner

Date: Thursday, July 20  
Location: Sucrierie de la Montagne, Rigaud  
Time: 19:00  
Cost: \$65 CAD (if available)  
Transportation: Buses depart at 17:30 from McTavish Street (adjacent to both Leacock and SSMU Buildings)  
Dress: Casual



An hour's ride in an air-conditioned highway coach will bring you to one of Québec's best-known "sugar shacks": Sucrierie de la Montagne in Rigaud, just west of Montréal. At this three-star establishment, a hearty all-you-can-eat meal will be served 'family style' at your table. You will experience the traditional food and music of Québec in this marvelous rustic setting. Dress is casual and don't forget your camera!



# Tours and Travel Agency

No scientific program sessions are scheduled for Wednesday, July 19. This day has been set aside for conference delegates to network with colleagues while enjoying one of the many tours being offered both in town, and out.

## Tours

A wide range of tours will be offered on Wednesday, July 19. Choose your favourite way to discover Montréal: by foot, by bus or even by boat! Enjoy an evening at the Montréal Casino, experience the thrill of Jet Boating in the Lachine Rapids. Both in and out of town day trips to explore surrounding areas will be offered. Visit Québec City, a UNESCO designated World Heritage site or Ottawa, Canada's national capital.

Detailed information about each of the conference tours is available from the tour schedule below. Tours depart from McTavish Street (adjacent to both Leacock and SSMU Buildings) and return to the main entrance of the McGill University campus (Roddick Gates).

Travelprice Canada, a local agency will operate a booth on the site of the Conference and sell tour packages, if space permits, to participants. The booth will be located adjacent to the Conference registration desk.

### Note:

- Tour ticket prices include all applicable taxes, admission fees and lunch, where indicated.
- Tickets must be picked up at the Tour Desk upon arrival.

## Tour Schedule

Date	Tour Code & Name	Time	Price per person		
			CAD	USD (approx.)	EUR (approx.)
July 16	SU1 – Greater Montréal Tour	14:00 – 17:00	\$35	\$29	€ 24
	SU2 – Old Montréal Walking Tour	14:00 – 16:00	\$15	\$13	€ 10
	SU3 – Jet Boating in the Lachine Rapids	13:00 – 15:30	\$99	\$83	€ 68
July 17	MO1 – Greater Montréal Tour	14:00 – 17:00	\$35	\$29	€ 24
July 18	TU1 – Old Montréal Walking Tour	10:00 – 12:00	\$15	\$13	€ 10
	TU2 – Montréal Harbour Cruise	14:00 – 16:00	\$49	\$41	€ 34
	TU3 – Jet Boating in the Lachine Rapids	13:00 – 15:30	\$99	\$83	€ 68
July 19	WE1 – Quebec City with lunch	07:00 – 17:00	\$109	\$92	€ 75
	WE2 – Ottawa with lunch	08:00 – 17:00	\$99	\$83	€ 68
	WE3 – The Laurentians & Mont-Tremblant with lunch	08:30 – 17:00	\$99	\$83	€ 68
	WE4 – Leisure hiking at Mont-Tremblant with lunch	08:30 – 17:00	\$89	\$75	€ 61
	WE5 – Jet Boating in the Lachine Rapids	13:00 – 15:30	\$99	\$83	€ 68
	WE6 – Montréal ethnic tour with lunch	10:00 – 16:00	\$79	\$66	€ 55
	WE7 – Montréal Harbour Cruise	14:00 – 16:00	\$49	\$41	€ 34

Rate of exchange as of September 12, 2005 USD = .84 EURO = .69

# Tour Descriptions

## **GREATER MONTRÉAL TOUR**

(3 hours)

Cost: CAD \$35

US \$29

€24

Montréal, one of the most cosmopolitan cities in Canada is known for its bicultural heritage which you will discover during this professionally guided tour in a deluxe coach. Discover the gracious Victorian and neo-gothic architecture of Old Montréal with the beautiful Notre-Dame Basilica, the Old Port and City Hall. You will be charmed by the streets of Old Montréal filled by cafés and restaurants. Explore Sainte-Hélène and Notre-Dame islands and their beautiful parks. Be ready for a Grand Prix F1 start during your tour on the Gilles Villeneuve circuit. You will also get a breathtaking view of the city from a lookout on the Mont-Royal belvedere.

## **OLD MONTRÉAL WALKING TOUR**

(2 hours)

Cost: CAD \$15

US \$13

€10

A new way to discover old Montréal with this walking tour! Your guide will walk you back through 364 years of history. You will stroll through a maze of narrow cobblestone lanes and old buildings, providing a perfect opportunity to discover the charm of the old city and the life of the first settlers of Montréal. From Place d'Armes to Place Jacques-Cartier, walking along St-Jacques street in the oldest financial district in Canada, Notre-Dame street, Champs-de-Mars and the Bonsecours market, old Montréal will reveal all the secrets of our ancestors.

## **JET BOATING IN THE LACHINE RAPIDS**

(2.5 hours)

Cost: CAD \$99

US \$83

€68

This thrilling ride departs from Old Montréal. After a short cruise, which will take you under four bridges (including Victoria Bridge, the oldest in Montréal), you will be jet boating in the historic Lachine Rapids. Between waves, watch as fearless kayakers descend the Rapids. The power of the tumbling waters, which French explorer Jacques Cartier called "hair-raisingly fearsome" in his 16th century diaries, will offer you as much excitement as you can handle. Ready to be wet? Don't forget a change of clothes.

## **LEISURE HIKING at MONT TREMBLANT with LUNCH**

(8.5 hours)

Cost: CAD \$89

US \$75

€61

A full day of hiking at Mont-Tremblant Station in the Laurentian region, located at the southernmost reach of the temperate fir tree forest in Québec. The rolling mounts and hills are the result of many ice ages grinding down a range once as high as the Rockies. A hiking guide will accompany you all day to discover the fauna, flora and geology of this region. An ideal outing to catch a glimpse of Eastern North American animals such as deer, moose, beavers, and many others. A picnic lunch will be provided during the day.

## **MONTRÉAL HARBOUR CRUISE**

(2.5 hours - cruise duration: 1.5 hours)

Cost: CAD \$49

US \$41

€34

Take time to discover Montréal from the comfort of a cruise on the St. Lawrence River. Aboard the bateau-mouche, you will see the Old Port, Sainte-Hélène Island and many other islands facing downtown Montréal. Commentary provided.

### **A DAY IN OTTAWA – CANADA’S CAPITAL**

(9 hours)

Cost: CAD \$99

US \$83

€68

OTTAWA, Canada’s national capital. During this day of discovery, you will be guided through the splendor of Canada’s Parliament Hill and its neo-gothic architecture, through the manicured green spaces and gardens of the embassies. Ottawa is home to a large number of internationally renowned museums, including the National Art Gallery and the newly constructed Canadian War Museum. Enjoy historical Rideau Canal and take in the smells and colors of the Byward Market, where lunch will be taken. In the afternoon, we will cross the Ottawa River for a visit to the Museum of Civilizations in Gatineau – don’t miss the extensive First Nations permanent exhibit.

### **A DAY IN QUÉBEC CITY**

(10 hours)

Cost: CAD \$109

US \$92

€75

Discover the historical treasures and unique atmosphere of Québec City, designated by UNESCO as a World Heritage site. Your guide will make history, art and architecture come alive as you tour the oldest European and only fortified city in North America. Highlights of the visit include the walled city and the 400 year-old Place Royale, adorned by a bust of Louis XIV and abutting the restored Royal Battery. You will also see the National Assembly, Québec’s Parliament; the Battlefield Park on the Plains of Abraham, where a decisive assault on the French by the English army took place in 1759; the Citadel, site of a daily formal Change of the Guard; and the magnificent Notre-Dame Basilica next to the Old Seminary. Lunch will be taken in Old Québec. Finish your day on a roaring note as you discover the Montmorency Falls by taking the cable car: they overlook the majestic Île d’Orléans on the St. Lawrence River and stand 30 meters higher than the famous Niagara Falls.

### **A DAY IN THE LAURENTIAN MOUNTAINS, MONT-TREMBLANT**

(8.5 hours)

Cost: CAD \$99

US \$83

€68

A relaxing day in the Laurentian Mountains, one of the oldest mountain chains in the world. You will go through Mont-Tremblant to take the cable car to have one of the most beautiful view over the Laurentians. You will appreciate the beauty of this world known summer and winter vacation getaway. Back to St-Sauveur for lunch and free time for shopping at famous factories such as Nike, Tommy Hilfiger, etc...

### **MONTRÉAL ETHNIC TOUR**

(6 hours)

Cost: CAD \$79

US \$66

€55

Tour of the different boroughs of Montréal, like the Greek district, Little Italy, Chinatown, the Spanish and Portuguese boroughs on St-Laurent Blvd and the fur district downtown Montréal. Meet different “new Montrealers” along this tour and take a lunch with them at the Jean-Talon market.

**Note:** Commentary for all tours will be in English only.

*Costs quoted in US \$ and Euros are estimates only.*

# Commercial Exhibition

## Exhibit Hours

Date	Hours	Date	Hours
Monday, July 17	09:45 – 17:00	Thursday, July 20	09:45 – 17:00
Tuesday, July 18	09:45 – 17:00	Friday, July 21	09:45 – 13:00
Wednesday, July 19	CLOSED		

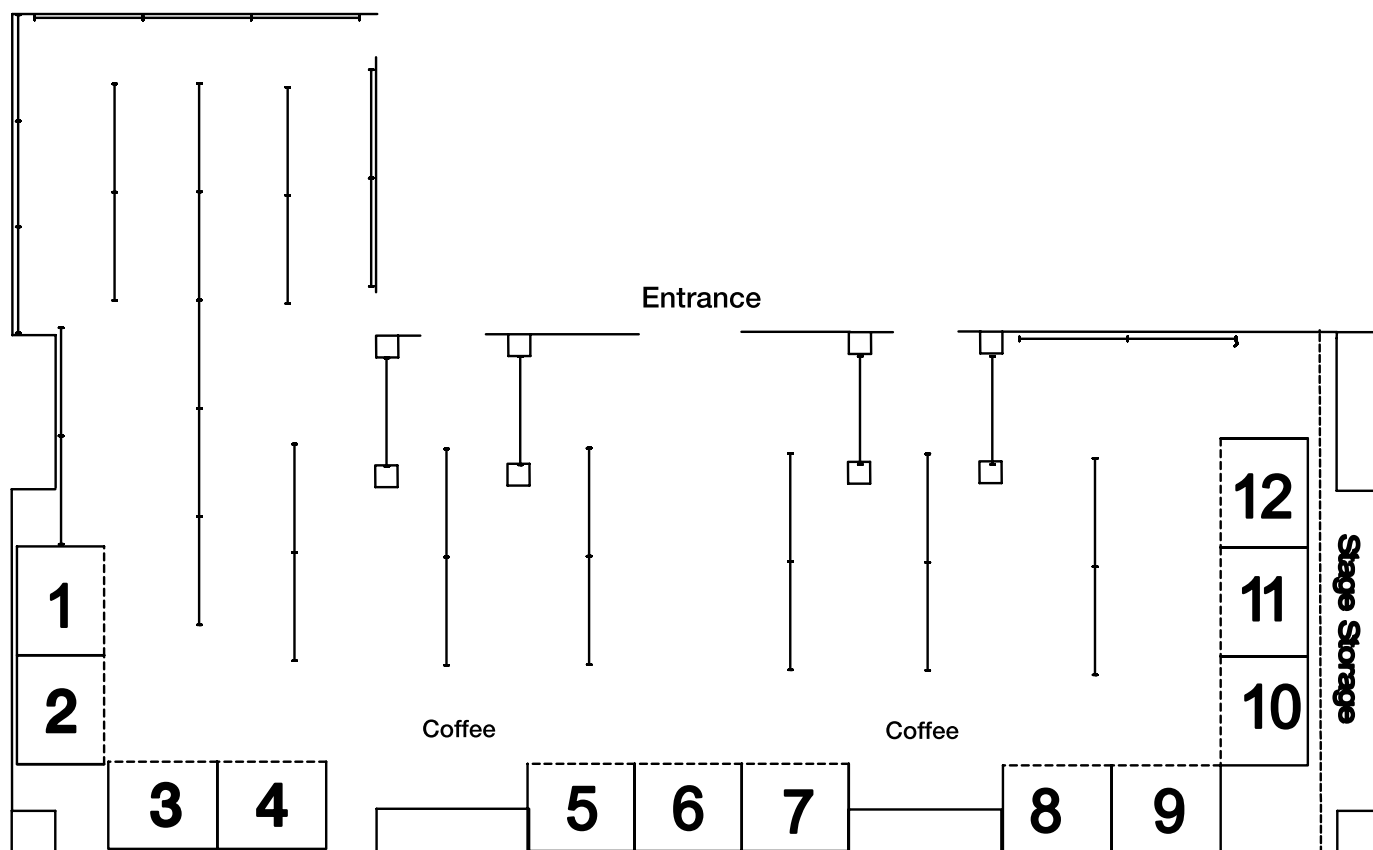
## List of Exhibitors

Exhibitor	Booth	Address	Contact
<b>Blackwell Publishing</b>	# 4	350 Main Street Malden MA USA 02148	<b>Billie Weisberg</b> Tel.: 781-388-8353 Fax: 781-338-8353 Email: bweisberg@bos.blackwellpublishing.com
<b>Cambridge University Press</b>	# 7	40 West 20th Street New York, New York 10011-4211 USA	<b>James Murphy</b> Tel.: 212-924-2900 ext. 5074 Fax: 212-691-3239 Email: jmurphy@cup.org
<b>CRC Press – DBA</b>	# 5	Taylor & Francis Group LLC 600 Broken Sound Parkway NW, Suite 300 Boca Raton, Florida, USA 33487	<b>Nancy Logal</b> Tel.: 561-998-2507 Fax: 561-998-2559 Email: nancy.logal@taylorandfrancis.com
<b>IBC 2008 Dublin</b>	# 9	National University of Ireland Galway, Ireland	<b>John Hinde</b> Tel.: 353 91 492043 Fax: 353 91 494542 Email: john.hinde@nuigalway.ie
<b>Public Health Agency of Canada</b>	# 10-11	Room B294, 120 Colonnade Road Orleans, ON Canada K1A 0K9	<b>Vista Vaughan</b> Tel.: 613-948-4552 Fax: 613-941-2057 Email: vista_vaughan@phac-aspc.gc.ca
<b>Springer</b>	# 2-3	233 Spring Street New York, NY USA 10013	<b>Acasia Dalmu</b> Tel.: 212-460-1600 Fax: 201-348-4505 Email: exhibits-ny@springer.com
<b>Statistical Solutions</b>	# 6	8 South Bank, Crosses Green Cork, Ireland	<b>Helen Murphy</b> Tel.: 353-214-319-629 Fax: 353-214-319-630 Email: helen@statsol.ie
<b>Wiley</b>	# 8	111 River St. Hoboken, NJ USA 07030	<b>Kristin Lawrence</b> Tel.: 201-748-6896 Fax: 201-748-6617 Email: krlawren@wiley.com

**Note:** Move-in — Monday, July 17 07:30 – 09:45  
Move-out — Friday, July 21 13:30 – 17:00



**McGill Student Union Building**  
**4th Floor Ballroom**



Booth Number	Name of Exhibitor	Contact Name
2 & 3	Springer	Acasia Dalmau
4	Blackwell Publishing	Billie Weisberg
5	Statistical Solutions	Helen Murphy
6	CRC Press-DBA Taylor & Francis Group LLC	Nancy Logal
7	Cambridge University Press	James Murphy
8	Wiley	Kristin Lawrence
9	IBC 2008 Dublin	John Hinde
10 & 11	Public Health Agency of Canada	Vista Vaughn

# Registration Information

You can make your payment by cheque or credit card (only Visa, MasterCard and American Express are accepted).

## Fees

Official rate is set in Canadian dollars. Payments are to be made and only accepted in Canadian funds.

<b>On-Site</b>	CAD
IBS Member	\$756
Non-IBS Member	\$856
Student*	\$506
Special Circumstance	
Country**	\$80

\* **Student is defined as a full-time student at a recognized institution. A letter from your department head is required as proof of your status.**

\*\* **You must be from a country defined as Special Circumstance to be eligible for this reduced fee.**

Registered participants are entitled to attend the Welcoming Reception, all scientific sessions, the exhibits and to receive a copy of the Program and the CD of Abstracts.

## Meals and Refreshments

Boxed lunches will be available on each of the four days of the Conference (only for those participants who have preselected them on their Registration Form). They may be picked up at the Student Union (SSMU) building cafeteria on the second floor beginning each day at 12:00 noon.

Mid-morning and afternoon refreshment breaks will be held in conjunction with the exhibition on the third floor of the Student Union (SSMU) building (across the street from the main scientific program meeting rooms).

## Snack Bar (Caferama)

On the first level of the Student Union (SSMU) building (across McTavish Street from the Scientific Program meeting room), a snack bar is open daily from 7:30 am to 5:30 pm which offers coffee, muffins, juices, soft drinks and various light snacks and lunch items at reasonable prices.

## Name Badges

All Conference registrants are required to wear their name badge in order to gain entry to the scientific sessions and to the exhibition.

## Registration Desk

The Registration Desk will be located at the street level, Leacock Building and will be open as follows:

### Registration Desk Hours

Saturday, July 15	14:00 – 18:00
Sunday, July 16	10:00 – 20:00
Monday, July 17	07:00 – 17:30
Tuesday, July 18	07:00 – 17:30
Wednesday, July 19	CLOSED
Thursday, July 20	07:30 – 17:30
Friday, July 21	07:30 – 15:00

# General Information

## Official Language

The official language of the Scientific Program is English. There will be no simultaneous interpretation during the Conference, but support services will be available in both English and French.

## Audio-Visual equipment

All Lecture rooms will be equipped with the following:

1 screen

1 LCD projector

1 laptop computer (PC) with Powerpoint and Acrobat Reader

1 podium microphone

1 lapel mic (wireless lavalier microphone)

1 laser pointer

Note: See page 6 for how presentations are to be uploaded to the central computer via the Speaker Preview Room.

## Foreign Exchange, Banking and Currency (April 2006 rates)

The Canadian Dollar is equivalent to US \$ 0.85, Euro 0.70.

Travelers' cheques can be cashed at numerous banks, currency exchange locations and stores (with purchases). There are numerous Automatic Teller Machines in downtown Montréal and on the University campus. Banks are closed on Saturdays and Sundays in Canada.

## Liability

The Conference fees DO NOT include provisions for the insurance of participants against personal injuries, sickness and theft or property damage. This also applies to any event held during the Conference period. Participants and accompanying persons are advised to arrange for insurance they consider necessary. Neither the Conference Organizing Committee, nor its sponsors nor committee members assume any responsibility for loss, injury or damage to persons or belongings, however caused.

## Bus and Metro Network

FARES 2006 (effective as of January 1, 2006)		
	Regular	Reduced
CAM hebdo (Weekly Pass)	\$18.50	\$10.25
Six-ticket strip	\$11.50	\$6.00
Cash fare (exact fare only)	\$2.50	\$1.50
Tourist Card	\$9.00 / 1 day	
	\$17.00 / 3 days	

### Thanks to the Tourist Card...

The STM Tourist Card allows you to roam the city at will and discover all Montreal has to offer. Unlimited public transit access for an entire day is just \$9.00. Or, if you plan on spending more time out and about, there is a three-day card for only \$17.00.

For further information on transportation in Montréal, please go to their web site at <http://www.stcum.qc.ca/>

## Taxes

The Goods and Services Tax (at time of production) is a seven per cent tax that is charged on most goods and services sold or provided in Canada. Foreign visitors to Canada can apply for a rebate on the GST that is paid on accommodation (up to 30 nights per visit), and on goods purchased in Canada and exported **within 60 days of the purchase**. They can apply for GST refunds only after they return to their own country. Rebate forms will be available at the hotel.

For more information please visit the Canadian government page with details on tax rebates for visitors at:

**[www.cra-arc.gc.ca/tax/nonresidents/visitors/tax-e.html](http://www.cra-arc.gc.ca/tax/nonresidents/visitors/tax-e.html)**

## Urgent Messages

During the conference, telephone messages can be directed to the XXIII IBC 2006 Conference Registration Desk at (514) 398-1628.

Messages will be posted on a bulletin board at the Conference Registration Desk.

## Internet Café

(Leacock Building, Room 111)  
*Courtesy of McGill University*

In this reserved computer lab, registered conference delegates can access the Internet, send and retrieve e-mail and view selected conference abstracts.

## McGill Copy Service

3459 McTavish Street – (514) 398-5560  
E-mail: [copyservice.ancillary@mcgill.ca](mailto:copyservice.ancillary@mcgill.ca)

For your on-site last minute print-production requirements, the McGill Copy Service Centre, located next to the food court on the ground floor of the Redpath Library Building (adjacent to the Leacock Building) is open on the following hours during the conference:

Sunday, July 16	12:00 – 17:00
Monday, July 17	08:00 – 18:00
Tuesday, July 18	09:00 – 18:00
Thursday, July 20	09:00 – 18:00
Friday, July 21	09:00 – 18:00

Services include:

- Black & White and Colour Photocopies
- Prints from discs
- Transparencies
- Special Paper Stocks
- Double sided printing
- Fax service

## Pricing

Cash, bank cards, and credit cards (VISA, MasterCard and American Express) will be accepted as a form of payment.

## Wireless Access to the Internet while on the McGill University Campus

If your laptop is equipped with a compatible Network Interface Card (NIC), you can access the Internet via McGill's Wireless Zone. The Wireless service is available in many public locations around the conference site, such as lounges, cafeterias, corridors, lobbies and the exhibit area.

Instructions on how to use the wireless service during the conference will be included in your delegate bag.

## Tourist Information

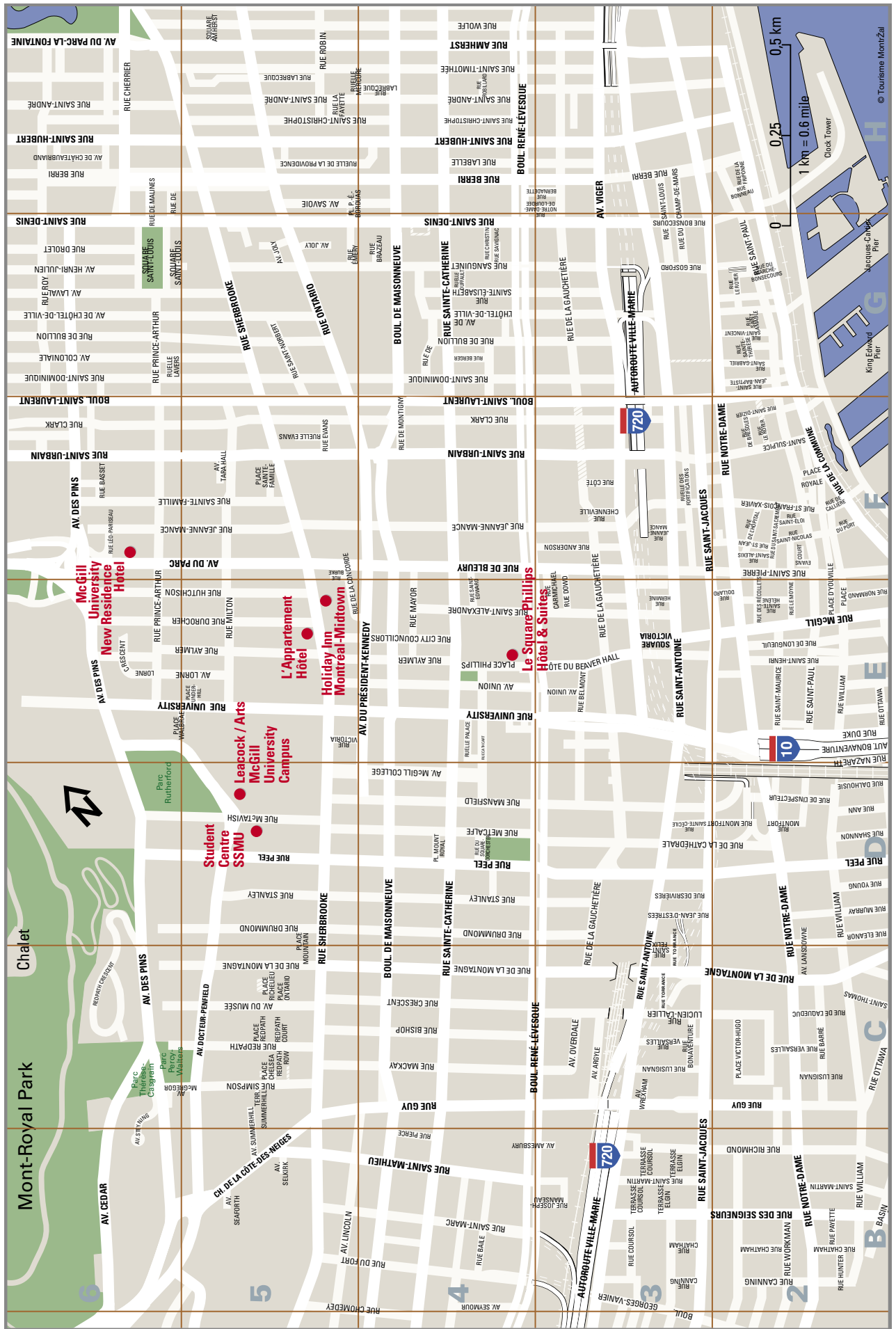
Those wishing to plan excursions in Canada before or after the Conference can obtain maps, accommodation lists and descriptions of sites of interest from the tourism services of each Canadian province:

Newfoundland & Labrador	1-800-563-6353 <a href="http://www.gov.nf.ca/tourism">www.gov.nf.ca/tourism</a>
Nova Scotia	1-800-565-0000 <a href="http://www.explorens.com">www.explorens.com</a>
Prince Edward Island	1-800-463-4734 <a href="http://www.peiplay.com">www.peiplay.com</a>
New Brunswick	1-800-561-0123 <a href="http://www.tourismnbcanda.com">www.tourismnbcanda.com</a>
Québec	1-800-363-7777 <a href="http://www.bonjourquebec.com">www.bonjourquebec.com</a>
Ontario	1-800-668-2746 <a href="http://www.ontariotravel.net">www.ontariotravel.net</a>
Manitoba	1-800-665-0040 <a href="http://www.travelmanitoba.com">www.travelmanitoba.com</a>
Saskatchewan	1-877-237-2273 <a href="http://www.sasktourism.com">www.sasktourism.com</a>
Alberta	1-800-661-8888 <a href="http://www.travelalberta.com">www.travelalberta.com</a>
British Columbia	1-800-663-6000 <a href="http://www.hellobc.com">www.hellobc.com</a>
Nunavut	1-866-686-2888 <a href="http://www.nunavuttourism.com">www.nunavuttourism.com</a>
Yukon	1-800-780-8566 <a href="http://www.touryukon.com">www.touryukon.com</a>
Northwest Territories	1-800-661-0788 <a href="http://www.explorenwt.com">www.explorenwt.com</a>

Please check the website at:

<http://www.travelcanada.ca> for further information.

# Locator Map of McGill University and Conference Hotels



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A black and white photograph of a hand holding a key. The hand is positioned on the left side of the frame, with the fingers gripping the handle of the key. The key is oriented vertically, with the head of the key pointing upwards. The background is dark and out of focus, making the hand and key the central focus of the image.

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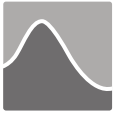
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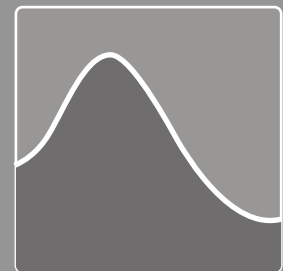
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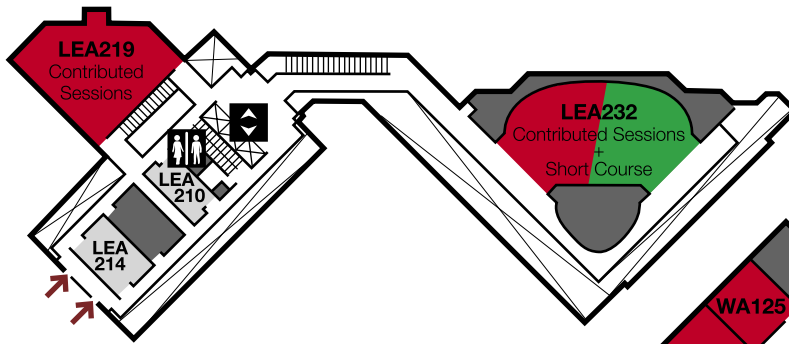




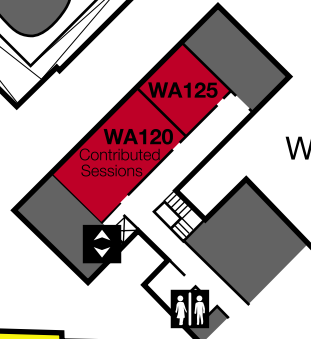


# Locator Map

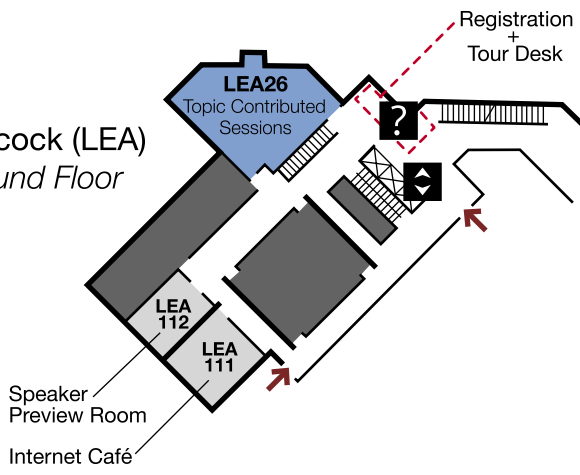
Leacock (LEA)  
Second Floor



West Arts (WA) Building  
Second Floor



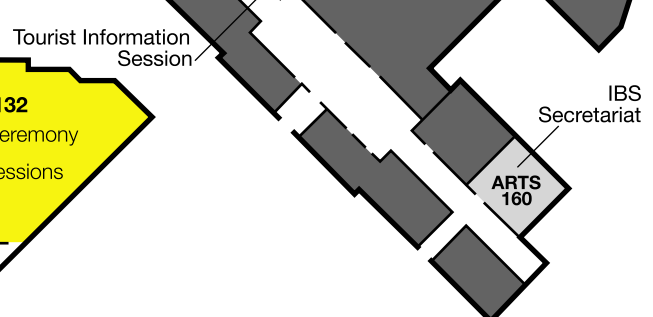
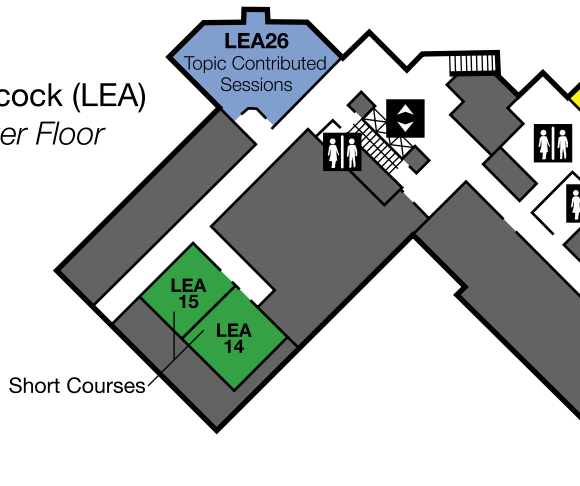
Leacock (LEA)  
Ground Floor



Staircase and elevator access to WA120 + WA125

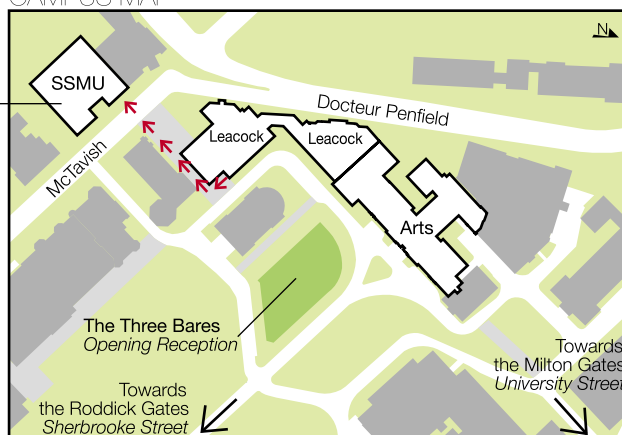


Leacock (LEA)  
Lower Floor



Arts Building  
Ground Floor

## CAMPUS MAP

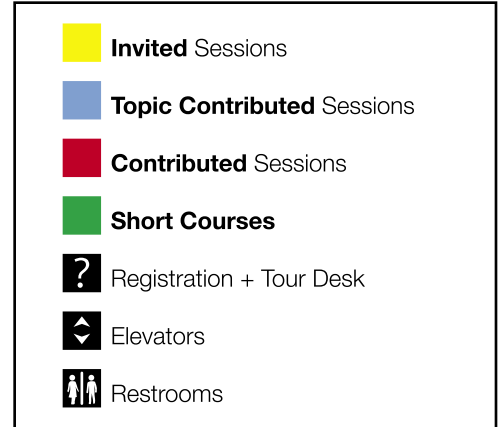


SSMU  
University Centre

**Second Floor :** Cafeteria  
Lunches

**Third Floor :** Ballroom  
Refreshment Breaks  
Posters + Exhibits

## MAP LEGEND





Rural Ireland



Halfpenny Bridge



Music Session



Georgian Dublin



O'Connell Bridge

# XXIV<sup>th</sup> International Biometric Conference



Organised by the British and Irish Region  
of the International Biometric Society

**July 13 - 18, 2008**  
**University College Dublin**  
**Ireland**



We look forward to welcoming you to the next IBC in Dublin. As always it will be a great opportunity for scientific and social interchange — a place to present and see new work in biometry, an occasion to meet old and new friends, and the chance to visit a new country, experiencing traditional Irish hospitality and the wonderful city of Dublin. What better time and place to celebrate the centenary of Student's famous 1908 *Biometrika* paper on the t-distribution — W.S. Gossett (Student) worked at the Guinness Brewery in Dublin.

John Hinde, Chair Local Organising Committee

## Scientific Programme

- Opening Ceremony and IBS Presidential Address
- Full programme of invited oral sessions
- Contributed oral and poster sessions
- Sessions highlighting the society's publications, *Biometrics* and *JABES*
- Fisher Memorial Lecture: Professor Rosemary Bailey
- Session organised by the British and Irish Region of the IBS
- Session organised by the Channel Network of the IBS
- Session organised by PSI (Statisticians in the Pharmaceutical Industry)
- Session organised by Irish Statistical Association
- Pre-conference short courses

## Social Programme

- Sunday 13** Welcome Gathering at University College Dublin
- Monday 14** Civic Reception in Dublin City Centre
- Tuesday 15** Optional evening social activities
- Wednesday 16** Range of social excursions
- Thursday 17** Gala Dinner at O'Reilly Hall, University College Dublin