XXVth International Biometric Conference
Sunday December 5 – Friday December 10, 2010
Federal University of Santa Catarina – Florianópolis, SC, Brazil

Programme

Hercilio Luz Bridge

Anhatomirim Island Fortress
Historic Market
Florianopolis’ Fauna
Conceição Lagoon view
Sponsors

The Conference is grateful for the support of the following organisations:
Organised by the Brazilian Region and Argentinean Region of the International Biometric Society

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Programme at a Glance

**Sunday, December 5th**

**9:00** On-site Registration

**9:30** Short Courses

**Short Course 1:** Competing risks and multi-state models: concepts, methods and software  
*Course Tutors:* Ronald Geskus (Academic Medical Centre, Amsterdam, the Netherlands), Hein Putter (Leiden University Medical Centre, the Netherlands)

**Short Course 2:** Genome-Wide Association Studies  
*Course Tutors:* Andreas Ziegler (Universität zu Lübeck, Germany), Kristel Van Steen (Université de Liège, Belgium)

**Short Course 3:** Multiple Imputation and its Application  
*Course Tutors:* Mike Kenward/James Carpenter (London School of Hygiene and Tropical Medicine, UK)

**Short Course 4:** Statistics for Biological Networks  
*Course Tutors:* Ernst Wit (University of Groningen, The Netherlands), Veronica Vinciotti (Brunel University, UK), Vilda Purutçuoglu (Middle East Technical University, Turkey)

**17:00** Welcome Reception

**Monday, December 6th**

**9:00** Opening Session

*Garapuvu Auditorium*

*Chair:* Andrew Mead, University of Warwick, United Kingdom

**10:30** Coffee Break

**11:00** Scientific Session

**Contributed Oral 1:** Bayesian Methods I  
**Contributed Oral 1:** Capture/Recapture Estimation Methods  
**Contributed Oral 1:** Survival Analysis and Cancer Risk  
**Invited Session 1:** Breakthroughs in longitudinal data  
**Invited Session 2:** Genomic data integration using sparse matrix decomposition methods

**12:45** Lunch

**14:00** Scientific Session

**Contributed Oral 2:** Epidemiological Methods I  
**Contributed Oral 2:** Genomics  
**Contributed Oral 2:** Social Research  
**Invited Session 3:** Efficient dose finding in drug development  
**Invited Session 4:** Statistical ecology and conservation

**15:45** Coffee Break

**16:15** Scientific Session

**Contributed Oral 3:** Agriculture I  
**Contributed Oral 3:** Experimental Design in Clinical Trials  
**Contributed Oral 3:** High Dimensional Data I  
**Contributed Oral 3:** Regression Methods  
**Session:** Biometrics Showcase

**18:00** Poster Session

*Agricultural, Plant and Animal Sciences*
<table>
<thead>
<tr>
<th>Tuesday, December 7th</th>
<th>Wednesday, December 8th</th>
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<tbody>
<tr>
<td><strong>08:15</strong> Scientific Session</td>
<td><strong>09:00</strong> Depart for Mid-Conference Tours</td>
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<tr>
<td><strong>Contributed Oral 4:</strong> Epidemiological Methods II</td>
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<td><strong>Contributed Oral 4:</strong> Experimental Design</td>
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<td><strong>Contributed Oral 4:</strong> Mixed Models</td>
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<td><strong>Contributed Oral 4:</strong> Survival Models</td>
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<td><strong>Invited Session 5:</strong> Processing and analysis of Genomic array data</td>
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<td><strong>10:00</strong> Coffee Break</td>
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<td><strong>10:30</strong> Scientific Session</td>
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<td><strong>Contributed Oral 5:</strong> Bayesian Methods II</td>
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<td><strong>Contributed Oral 5:</strong> Bioinformatics</td>
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<td><strong>Contributed Oral 5:</strong> Missing Data Methods</td>
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<td><strong>Contributed Oral 5:</strong> High Dimensional Data II</td>
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<td><strong>Invited Session 6:</strong> Spatial methods for tropical disease epidemiology</td>
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<td><strong>12:15</strong> Lunch</td>
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<td><strong>12:15</strong> Poster Session</td>
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<tr>
<td>Genetics and Genomics; Clinical Trials and Cancer Research</td>
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<td><strong>14:00</strong> Scientific Session</td>
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<td><strong>Contributed Oral 6:</strong> Clustering and Classification</td>
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<td><strong>Contributed Oral 6:</strong> Longitudinal Data</td>
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<td><strong>Contributed Oral 6:</strong> Stochastic Processes</td>
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<td><strong>Contributed Oral 6:</strong> Survival Data III</td>
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<td><strong>Session:</strong> JABES Showcase</td>
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<td><strong>15:45</strong> Coffee Break</td>
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<td><strong>16:15</strong> Scientific Session</td>
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<td><strong>Contributed Oral 7:</strong> Animal Science</td>
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<td><strong>Contributed Oral 7:</strong> Causal Inference</td>
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<td><strong>Contributed Oral 7:</strong> Environmental Research I</td>
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<td><strong>Contributed Oral 7:</strong> Software and Computational Methods</td>
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<td><strong>Invited Session 7:</strong> Recent developments in estimating and modelling relative survival</td>
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<tr>
<td><strong>18:15</strong> Awards Presentation and Celebration of 25 IBCs</td>
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<td>Thursday, December 9th</td>
<td>Friday, December 10th</td>
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<tr>
<td><strong>08:15</strong> Scientific Session</td>
<td><strong>08:30</strong> Scientific Session</td>
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<tr>
<td>Contributed Oral 8: Agriculture II</td>
<td>Contributed Oral 12: Epidemiological Methods IV</td>
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<tr>
<td>Contributed Oral 8: Clustering in Genetics and Genomics</td>
<td>Contributed Oral 12: Genetics in Agriculture</td>
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<td>Contributed Oral 8: Latent Variable Methods</td>
<td>Contributed Oral 12: Imaging</td>
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<td>Contributed Oral 8: Miscellaneous</td>
<td>Contributed Oral 12: Infectious Diseases</td>
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<tr>
<td>Invited Session 8: Epidemiological surveillance: space-time approaches and multiple testing problems</td>
<td>Invited Session 13: Multivariable model-building with continuous variables – a comparison of flexible regression approaches</td>
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<td><strong>10:00</strong> Coffee Break</td>
<td><strong>10:15</strong> Coffee Break</td>
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<td><strong>10:20</strong> Scientific Session</td>
<td><strong>10:45</strong> Scientific Session</td>
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<td>Contributed Oral 9: Disease Mapping</td>
<td>Contributed Oral 13: Disease Epidemiology</td>
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<tr>
<td>Contributed Oral 9: Environmental Research II</td>
<td>Contributed Oral 13: Genetics</td>
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<tr>
<td>Contributed Oral 9: High Dimensional Data III</td>
<td>Contributed Oral 13: Modelling</td>
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<td>Invited Session 10: Missing data in clinical trials: The way forward</td>
<td>Invited Session 14: Modern developments in the design and analysis of plant and tree breeding variety trials</td>
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<td><strong>12:05</strong> Lunch</td>
<td><strong>12:30</strong> Lunch</td>
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<td><strong>12:05</strong> Poster Session</td>
<td><strong>12:30</strong> Poster Session</td>
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<tr>
<td>Ecological and Environmental Research; Epidemiology and Infectious Diseases</td>
<td>General applications</td>
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<td><strong>13:35</strong> Scientific Session</td>
<td><strong>14:15</strong> Scientific Session</td>
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<tr>
<td>Contributed Oral 10: Cancer Research</td>
<td>Contributed Oral 14: Clinical Trials</td>
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<td>Contributed Oral 10: Categorical Data</td>
<td>Contributed Oral 14: Correlated Data Methods</td>
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<td>Contributed Oral 10: Fisheries Research</td>
<td>Contributed Oral 14: Surveillance and Monitoring</td>
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<td>Contributed Oral 10: Medical Research</td>
<td>Contributed Oral 14: Survival Data V</td>
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<tr>
<td>Invited Session 11: Heteroscedasticity and models for dispersion parameters with applications to Genetics and Spatial Statistics</td>
<td>Invited Session 16: Challenges of multiple gene-based analysis in genome wide association studies</td>
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<tr>
<td><strong>15:20</strong> Coffee Break</td>
<td><strong>16:00</strong> Coffee Break</td>
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<tr>
<td><strong>15:40</strong> Scientific Session</td>
<td><strong>16:30</strong> Closing Session</td>
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<tr>
<td>Contributed Oral 11: Biosurveillance and Biosecurity</td>
<td><strong>17:30</strong> Depart</td>
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<tr>
<td>Contributed Oral 11: Ecological Research</td>
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<td>Contributed Oral 11: Epidemiological Methods III</td>
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<td>Contributed Oral 11: Survival Data IV</td>
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<tr>
<td>Invited Session 12: Statistical challenges and advancements in eQTL mapping studies</td>
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<tr>
<td><strong>20:00</strong> Conference Party</td>
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<tr>
<td>Praia Mole Eco Village hotel</td>
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### IBS Council and Committee Meeting Programme

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<th>Committee</th>
<th>Venue</th>
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<td><strong>Sunday 5th</strong></td>
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<tr>
<td>0900 – 1230</td>
<td>Executive Committee</td>
<td>Room 13B</td>
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<td>1300 – 1630</td>
<td>Council</td>
<td>Room 13B</td>
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<td><strong>Monday 6th</strong></td>
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<tr>
<td>1500 – 1600</td>
<td>All Committee Chairs with KB, AM, LY and AM</td>
<td>Room 13B</td>
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<tr>
<td>1600 – 1800</td>
<td>Finance Committee</td>
<td>Room 13C</td>
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<tr>
<td>1600 – 1800</td>
<td>Conference Advisory Committee</td>
<td>Room 13E</td>
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<tr>
<td>1600 – 1800</td>
<td>Education Committee</td>
<td>Room 13B</td>
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<tr>
<td>1800 – 1830</td>
<td>Reception for Regional/National Group officers</td>
<td>Room 13B</td>
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<td><strong>Tuesday 7th</strong></td>
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<tr>
<td>0815 – 1015</td>
<td>Club of Presidents</td>
<td>Room 13C</td>
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<tr>
<td>1030 – 1215</td>
<td>Biometrics Associate Editors</td>
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<tr>
<td>1600 – 1800</td>
<td>Editorial Advisory Committee</td>
<td>Room 13C</td>
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<td>1600 – 1800</td>
<td>Awards Fund Committee</td>
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<tr>
<td>1600 – 1800</td>
<td>Communications Committee</td>
<td>Room 13E</td>
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<td><strong>Thursday 9th</strong></td>
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<tr>
<td>1530 – 1730</td>
<td>Strategic Planning Committee</td>
<td>Room 13C</td>
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<tr>
<td>1530 – 1630</td>
<td>LOC 2012 and LOC2010 Chair</td>
<td>Room 13E</td>
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<tr>
<td>1630 – 1730</td>
<td>IPC 2012 and IPC2010 Chair/Short Course Coordinator</td>
<td>Room 13E</td>
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Message from the IBS President and the IBC Floripa 2010 Organising President

Dear IBC attendees, fellow biometricians, colleagues,

It is a great pleasure and honour to welcome you to Florianopolis for the XXVth International Biometric Conference, jointly hosted by the Brazilian and Argentinean Regions of the International Biometric Society, and only the second occasion on which the society has held its conference in South America. The previous visit of the society to South America for its conference was also to Brazil for the Xth IBC in Guarujá in August 1979. We know that you will enjoy and benefit from the scientific and social activities organized for the conference, and hope that you will help us to honour members and delegates, through our society and conference awards, and to celebrate this, the twenty-fifth IBC organized by the society.

Having both been involved in the local organisation of previous IBCs (Kaye in Cairns in 2004, Andrew in Dublin in 2008), we are acutely aware of the amount of work that goes in to organising such a large conference. Dalton Andrade and his Local Organising Committee (LOC) have provided a socially and scientifically welcoming venue that provides excellent spaces for both formal meetings and scientific sessions and the informal conversations that are an essential part of every IBC. They have decorated the scientific meeting with marvellous social events (we are particularly looking forward to the Conference Brazilian Party on Thursday) and a range of Wednesday excursions. We are also grateful for the support provided by the staff at Alpe Eventos for registration and conference management.

The organisation of the scientific programme for the conference has been led by Vicente Núñez-Antón with support from the other members of our International Programme Committee (IPC) and from Paulo Justiano Ribeiro Jr. from the LOC. Thanks to Vicente’s outstanding leadership of the IPC we have an exciting programme of invited sessions to stimulate us during the conference, together with a broad programme of contributed oral and poster presentations (coordinated by Vicente and Paulo) – thanks to all who submitted abstracts for the conference, without which we would not be looking forward to the exciting scientific programme that has been constructed. We are also grateful to Danielle Sell and her colleagues at Coe-Truman Technologies for supporting the abstract management system used for this conference. In addition, we thank Andreas Ziegler and colleagues for their work in assembling a superb short course programme prior to the start of the main conference.

Finally we are grateful for the continued support of Executive Director Dee Ann Walker and her colleagues at the IBS International Business Office at Bostrom in helping us to manage the society, particularly during the current transition to a new governance structure.

We look forward to renewing international friendships and professional contacts and making new ones during the next week, and hope that many of you will be able to join us again at the XXVIth IBC in Kobe, Japan in August 2012.

Welcome to all delegates, their families and friends.

Kaye Basford
President
International Biometric Society

Andrew Mead
Organizing President
IBC Floripa 2010
Message from the Chairs of the Local Organising Committee and the International Programme Committee

Dear Guest,

Welcome to the XXVth International Biometric Conference, the biennial meeting of the International Biometric Society. The scientific program consists of a slate of 16 invited sessions, 3 special sessions, 54 contributed oral sessions and 4 poster sessions. In addition, 4 short courses are being offered and two satellite conferences have been organized.

These would not have been possible without the joint efforts of the various committees, the IBS International Business office as well as the current and former IBS presidents, Andrew Mead and Kaye Basford, respectively. In particular we would like to thank Paulo Justiniano Ribeiro Jr., who has been working with Andrew Mead and Vicente Núñez-Antón in the process of building the scientific program, Adriano Borgatto, who has been responsible for the final program schedule, and Pedro Barbetta who, together with Adriano Borgatto and Dalton Andrade, has been responsible for the local infrastructure arrangements.

The meeting takes place at The Culture and Events Center within the main campus of the Federal University of Santa Catarina – UFSC in the south of the Brazilian Region (RBRAS) 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.

Vicente Núñez-Antón
on behalf of the
International Program Committee

Dalton Andrade
on behalf of the
Local Organizing Committee
Organising President
Andrew Mead, University of Warwick, United Kingdom

International Programme Committee
Vicente Núñez-Antón (Chair), Spanish Region
Andrew Ziegler, German Region
Alexandros Karagrigoriou, Eastern Mediterranean Region
Byung-Soo Kim, Korean Region
Christine McLaren, Western North American Region
Clarice Demetrio, Brazilian Region
Dan Nettleton, Eastern North American Region
Jean-Louis Fouley, French Region
Mihoko Minami, Japanese Region
Rachel Fewster, Australasian Region
Raúl Macchiavelli, Central American and Caribbean Region
Stijn Vansteelandt, Belgian Region
Sue Welham, British and Irish Region
Tom Britton, Nordic Region

Local Organising Committee
Dalton F. Andrade (Chair), Brazilian Region
Adriano F. Borgatto, Brazilian Region
Clarice G. B. Demétrio, Brazilian Region
Mónica Balzarini, Argentinean Region
Nélida Winzer, Argentinean Region
Paulo J. Ribeiro Jr., Brazilian Region
Pedro A. Barbetta, Brazilian Region
Raúl Macchiavelli, Central American and Caribbean Region

Conference Organisation
Alpe Eventos, Florianópolis, Brazil
IBS International Business Office, Washington DC, USA
Awards at IBC Floripa 2010

Following the successful introduction of awards for the best student oral and best poster presentation at IBC 2008 in Dublin, these awards are being repeated at IBC Floripa 2010. The awards will be presented (at the Closing Session of the conference on Friday 10th December) for:

- The Best Student Oral Poster at the IBC
- The Best Poster Presentation at the IBC

The selection of the winners of the Best Student Oral Paper and Best Poster Presentation prizes will take place during the conference, with a panel of judges assessing the eligible presentations. To streamline the judging process a pre-selection step has been introduced; to be eligible, authors had to have registered for the conference before 15th October and also have submitted a draft of their presentation or poster via the conference web-site. Student authors also had to present certification of their student status. Those authors who satisfied these criteria were then short-listed for the appropriate award.

Conference on Applied Statistics in Brazil and Argentina

The 55th Annual Meeting of the Brazilian Region (RBRAS) of the International Biometric Society and the 15th Annual Meeting Argentinean Region (RARG) of the International Biometric Society will be held at UFSC on Wednesday 8th December. This one-day meeting will start with invited talks from Prof. Dr. Guilherme Jordão de Magalhães Rosa and Profa. Dra. Mónica Balzarini. The day will also include two poster sessions featuring statistical work from Brazil and Argentina. IBC delegates are welcome to attend the meeting, if they are not going on an excursion.
General Information

Florianópolis

Florianópolis, also known by the nickname Floripa is one of the most popular tourist destinations in South of America. One can find superb beaches, beautiful sceneries, hills, lagoons, dunes, natural reserves, interesting culture and friendly people. There are 42 beaches around the island, each diverse and unique in it’s own way. An enormous number of restaurants can be visited where a rich variety of international dishes are served from the most traditional dish to exotic food.

Conference Venue

The Culture and Events Center within the main campus of the Federal University of Santa Catarina - UFSC is an excellent multi-use venue with bars and restaurants, travel agency, bookstore, bank, photo lab and reprographic store. Close to UFSC are good facilities including a hospital, hotels, banks and supermarkets, with most of the hotels located nearby in both Florianópolis downtown and on some of the island’s fabulous beaches.

Lunch

Lunch will be served in the Culture and Events Center build from Monday to Friday (with the exception of Wednesday as this is the conference tour day). In your bag there are tickets for lunch, when the lunch will be available keep them on hand. To cater for the large number of delegates, there will be queuing, so please be patient!

Registration Desk

Enquires for the following should be made at the registration desk:

- To register for the conference and collect your participant bag
- Any payment queries relating to your registration and accommodation
- General information regarding the congress
- Mid-conference tours
- Accompanying persons
- Internet access

Opening hours

The registration desk will be located in Culture and Events Center, UFSC, see on Map. Registration will commence on Sunday 5th between 8:30 – 17:30 and will continue throughout the conference.

The registration desk will be open at following times during IBC:

- Sunday 5th December: 8:30hrs – 17:30hs
- Monday 6th December: 7:45hrs – 17:30hs
- Tuesday 7th December: 7:45hrs – 17:30hs
- Wednesday 8th December: 7:45hrs – 15:00hs
- Thursday 9th December: 7:45hrs – 17:30hs
- Friday 10th December: 7:45hrs – 16:00hs
Internet Access

Five computers are available for internet access at the room 13A. There is also wireless access available throughout the building and the tents.
To get wireless access you need connect to wireless redeUFSCSemFio2, using login (usuário) 25ibc and password (senha) 25ibc.

Transport

Coaches will be provided from Majestic Palace, Blue Tree Towers, Valerim Center, Farol da Ilha, Valerim Plaza, Faial, Mercure – Lindacap and Castelmar hotels to UFSC for the conference venue and for the short courses, except Wednesday. Delegates, accompanying persons and exhibitors are entitled to use this service. Coaches will arrive at UFSC 15 minutes prior to first session of the day. Please refer to timetables at reception in conference hotels.

Speaker Preview Room

The Speaker Preview Room is room 8 located in Culture and Events Center, UFSC, see on inside back cover page. Please note that you should ensure that your presentation is uploaded in PDF format on the day before it is scheduled. Please also note that there will NOT be facilities available in this room for you to revise your presentation.

The Speaker Preview Room will be open at following times during IBC:

- Sunday 5th December: 8:00hrs – 17:30hs
- Monday 6th December: 8:00hrs – 17:30hs
- Tuesday 7th December: 8:00hrs – 17:30hs
- Wednesday 8th December: 8:00hrs – 15:00hs
- Thursday 9th December: 8:00hrs – 17:30hs
- Friday 10th December: 8:00hrs – 12:00hs

Poster Presentation

The poster sessions are split between the two halves of the week, with posters for sessions Agricultural, Plant, Animal Sciences, Genetics and Genomics, Clinical Trials and Cancer Research only being displayed on Monday and Tuesday, and those for sessions Ecological and Environmental Research, Epidemiology, Infectious Diseases and General applications only being displayed on Thursday and Friday. Posters for the first half of the week, with “M” numbers, should be put up by 14:00 on Monday 6th December at the very latest, and removed at the end of Tuesday afternoon (after 17:00). Similarly posters for the second half of the week, with “T” numbers, should be put up by 8:30 on Thursday morning (note that they cannot be put up before Thursday morning), and removed at the end of the of Friday afternoon (after 16:00).
Poster presenters are reminded that they are expected to be present at their poster throughout the designated, themed session to which their poster has been allocated. Any difficulties with this should be referred to secretariat as long before your poster session as is possible.
Social Programme

Welcome Reception
Date: Sunday, 5th December 2010
Venue: Culture and Events Center hall, UFSC
Time: 17:00 – 19:00 hours
Cost: Included in the registration fee

Floripa by bus
Date: Every day
Departure Point: Culture and Events Center hall, UFSC
Cost: Included, only one tour, in the accompanying persons package
R$60 which they can choose during the conference. The delegate also can get the tour during the conference for R$30 (each tour).
Routes: Floripa by bus offers two tour routes, which include visit to historical point and beaches.

Conference Party
Date: Thursday, 9th December 2010
Venue: Praia Mole Eco Village Hotel, in the Mole Beach
Coach: 19:00 hours
Cost: R$85 (includes dinner, drinks, entertainment and transportation from all the official hotels but Jurerê Beach Village and, of course, Praia Mole Eco Village). The delegate also can get the ticket during the conference.
Costume: informal (shorts, sandals, t-shirts, ...)

Accompanying Persons Programme
The accompanying person’s programme includes attendance to the Welcome Reception, a guide to the city and a ticket for the city tour (Floripa by bus).
Cost: R$60
Mid-Conference Tours

(Tour 1) Costa da Lagoa Trail
This is one of the most popular trails with tourists in Florianópolis. The route follows most of the left bank of Lagoa da Conceição (a lovely large lake) – which is a postcard of the city and offers trekkers the opportunity of going through routes that conserve characteristics from colonial times, like stone paving, an Azorean style mill and traditional period houses. It is an excellent option for those who want to be close to the environment and part of the history of Florianópolis. At the end of the trail, you will have the opportunity of enjoying typical local food in a picturesque fishing village, which can only be reached on foot or by boat.

Time: 9:00am to 5:00pm
Age Limit: least 14 years old (no maximum age)
Cost: R$ 85,00

(Tour 2) Tour in the East of the Island with lunch in Costa da Lagoa
The eastern part of Florianópolis can be considered as the best nutshell example of this Island’s beauty. You will have the opportunity of getting to know Lagoa da Conceição, Joaquina and Mole beaches and the picturesque Barra da Lagoa beach, where there is a typical fishing community. You can also take photos of the island’s most beautiful landscapes from two viewpoints over Lagoa da Conceição. Lunch will be served in Costa da Lagoa, which is a typical fishing village that can only be reached on foot or by boat. Here you can enjoy the best there is in local traditional food.

Time: 9:00am to 5:00pm
Age Limit: any age
Cost: R$ 85,00

(Tour 3) Beach Trails – Armação – Lagoinha do Leste – Pântano do Sul
This is the ideal tour for those looking for more contact with nature who would also like to get to know the most pristine beach in Florianópolis. The beaches which lead to Lagoinha do Leste are already an appetizer for the one that is famous for being the Island’s most beautiful beach. You can only get to it by using trails and the route, through the rough coastline that divides these beaches, offers the best views of the south of the Island. Lunch is waiting for you at the end of the trail, with lots of seafood, salads and meat to refresh your energy. This is all on Pântano do Sul beach front.

Time: 8:00am to 6:00pm
Age Limit: least 14 years old (no maximum age)
Cost: R$ 85,00

(Tour 4) Florianópolis Island City tour
This is a complete city tour that will take you around the city from North to South. You can get to know the main beaches, historic monuments, churches and much more. The viewpoints are a must for the best views of the Island. We will take you to see the communities where the first immigrants from the Azores arrived, where you can buy local handicraft and enjoy local traditional seafood.

Time: 9:00am to 6:00pm
Age Limit: any age
Cost: R$ 85,00
(Tour 5) Balneário Camboriú and Brusque
This is a tour to the most popular tourist region in Santa Catarina state. Here in Balneário Camboriú you can take the cable car trip in Parque Unipraias (over the beaches) and along the whole of Avenida Atlântica, with stops where you can take photos and film the area. In Brusque, in Vale do Itajaí, you will have the opportunity of getting to know a typical city which was colonized by Germans and also be able to visit the FIP – Clothing Fair, which is a purchase center for the best there is in the textile sector in the Southern Region of Brazil.
Time: 9:00am to 6:00pm
Age Limit: any age
Cost: R$ 85,00

(Tour 6) Tour to Anhatomirim Island
The most famous boat trip in Florianópolis will take you to see the Santo Antônio Fort, on Ratones Grande Island and the Santa Cruz Fort, located on the Island of Anhatomirim. These two forts were built by the Portuguese in the XVIII century to protect the Island from invaders. The tour furthermore includes a panoramic view of the city (including the Hercílio Luz Bridge), the search for dolphins in a preservation area and stops for taking a swim in the municipality of Celso Ramos.
Time: 9:00am to 5:00pm
Age Limit: any age
Cost: R$ 85,00

(Tour 7) Florianópolis South Island City tour
This is a half day city tour that will take you around the south part of the island. You can get to know some beaches, historic monuments, churches and much more. You will have the chance to have a great view of Lagoa da Conceição and all the southeast coast of Florianópolis. We will also take you to see the communities where the first immigrants from the Azores arrived, where you can buy local handicraft and enjoy a great cocktail.
Time: 3:00pm to 8:00pm
Age Limit: any age
Cost: R$ 70,00

(Tour 8) Boat Tour around Lagoa da Conceição
This boat tour will take you around the famous Lagoa da Conceição - which is one of the main postcards of Florianópolis. You will have the opportunity to admire the exuberante rainforest around the lake A cocktail will be served in Costa da Lagoa, which is a typical fishing village that can only be reached on foot or by boat.
Time: 3:00pm to 8:00pm
Age Limit: any age
Cost: R$ 70,00
# Scientific Programme

## Sunday, 5 December 2010: 09:00 – 17:00

<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Course Title</th>
<th>Course Tutors</th>
</tr>
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<tbody>
<tr>
<td>09:00</td>
<td>9A</td>
<td><strong>Short Course 1:</strong> Competing risks and multi-state models: concepts, methods and software&lt;br&gt;Course Tutors: Ronald Geskus (Academic Medical Centre, Amsterdam, the Netherlands), Hein Putter (Leiden University Medical Centre, the Netherlands)</td>
<td>Course registration from 09:00&lt;br&gt;Course Starts at 09:30&lt;br&gt;Course ends by 17:00</td>
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<tr>
<td>09:00</td>
<td>9B</td>
<td><strong>Short Course 2:</strong> Genome-Wide Association Studies&lt;br&gt;Course Tutors: Andreas Ziegler (Universität zu Lubeck, Germany), Kristel Van Steen (Université de Liège, Belgium)</td>
<td>Course registration from 09:00&lt;br&gt;Course Starts at 09:30&lt;br&gt;Course ends by 17:00</td>
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<tr>
<td>09:00</td>
<td>9C</td>
<td><strong>Short Course 3:</strong> Multiple Imputation and its Application&lt;br&gt;Course Tutors: Mike Kenward/James Carpenter (London School of Hygiene and Tropical Medicine, UK)</td>
<td>Course registration from 09:00&lt;br&gt;Course Starts at 09:30&lt;br&gt;Course ends by 17:00</td>
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<tr>
<td>09:00</td>
<td>9D</td>
<td><strong>Short Course 4:</strong> Statistics for Biological Networks&lt;br&gt;Course Tutors: Ernst Wit (University of Groningen, The Netherlands), Veronica Vinciotti (Brunel University, UK), Vilda Purutçuoglu (Middle East Technical University, Turkey)</td>
<td>Course registration from 09:00&lt;br&gt;Course Starts at 09:30&lt;br&gt;Course ends by 17:00</td>
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<tr>
<td>17:00</td>
<td></td>
<td><strong>Welcome Reception</strong>&lt;br&gt;Conference Venue hall</td>
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</table>
Monday, 6 December 2010: 09:00 – 10:30

09:00 Opening Session
Garapuvu Auditorium
Chair: Andrew Mead, University of Warwick, United Kingdom

10:30 Coffee Break

Monday, 6 December 2010: 11:00 – 12:45

11:00 Contributed Oral 1: Bayesian Methods 1
Room 9D
Chair: Annibale Biggeri (University of Florence, Italy)

11:00 Association tests that accommodate genotyping uncertainty
Thomas Louis, Johns Hopkins Bloomberg SPH; Qing Li, Inherited Disease Res. Branch, NIH-Natl. Human Genome Res. Inst.; Benilton Carvalho, Cambridge Res Inst; M. Danielle Fallin, Rafael Irizarry, Ingo Ruczinski, Johns Hopkins Bloomberg SPH

11:17 Computational implementation of an reversible jump mcmc algorithm to garch models applied to climatological time series
Gabriel Sarmanho, Afrânio Vieira, UnB; Paulo Lucio, UFRN

11:35 Bayesian ranking and effect-size estimation via semi-parametric hierarchical mixture models in microarray experiments
Hisashi Noma, Dept of Biostatistics, Kyoto Univ Sch of Public Health; Shigeyuki Matsui, Dept of Data Science, The Inst of Statistical Mathematics

11:52 Bayesian Modelling of Recurrent Events with Dependent Censoring
Ananda Sen, Univ of Michigan

12:10 Assessment of binary diagnostic tests by Latent Class, Bayesian and GEE Modeling in the absence of gold standard test
Huseyn Refik Burgut, Ilker Unal, Yasar Sertdemir, Recep Tuncer, Macit Sandikci, Cukurova Univ

12:27 Bayesian variable selection for probit mixed models
Meili Baragatti, Ipsogen; Francois Bertucci, Inst Paoli Calmettes; Tagett Rebecca, Ipsogen; Denys Pommeret, Inst de Mathématiques de Luminy, CNRS

11:00 Contributed Oral 1: Capture/Recapture Estimation Methods
Room 9C
Chair: Richard Barker (University of Otago, New Zealand)

11:00 Age-dependent models for recovery data on animals marked as adults
Byron Morgan, Rachel McCrea, Univ of Kent

11:17 Stochastic animal movement models generating circular distributions
William Reed, Univ of Victoria

11:35 A Dual-Record Systems Estimator When One List Contains Count Data
Maarten Cruyff, Peter van der Heijden, Utrecht Univ

11:52 Multispecies integrated population model for the study of synchrony in demographic parameters
José J. Lahoz-Monfort, Byron J. T. Morgan, Univ of Kent; Mike P. Harris, Sarah Wanless, Stephen N. Freeman, Ctr for Ecology & Hydrology

12:10 General animal movement and migration models using multi-state random walks
Brett McClintock, Ruth King, Univ of St Andrews; Juan Morales, Univ Nacionical del Comahue, Argentina; Jason Matthiopoulos, Len Thomas, Bernie McConnell, Univ of St Andrews

12:27 The use of mixtures in modelling the unknown arrival times of birds at stop-over sites
Eleni Matechou, Byron J.T. Morgan, Univ of Kent

11:00 Contributed Oral 1: Survival Analysis and Cancer Risk
Room 9A-B
Chair: Christine McLaren (University of Otago, New Zealand)

11:00 Comparing Methods For Calculating Relative Survival: A Simulation Based Study
Mark Rutherford, Paul Lambert, Univ of Leicester; Paul Dickman, Karolinska Instt

11:17 Destructive weighted Poisson cure rate models
Josemar Rodrigues, Univ Federal de São Carlos

11:35 Survival Extrapolation in the Presence of Cause Specific Hazards
Tatiana Benaglia, Linda Sharples, Medical Res Council - Biostatistics Unit

11:52 A Mechanistic Breast Cancer Modeling: An Application on Invasive Ductal Carcinoma
Gleici Perdoná, FMRP-USP; Francisco Louzada-Neto, Juliana Cobre, UFSCAR

12:10 A Cox model with dynamic ridge penalties on time dependent effects of the covariates
Aris Perperoglou, Athens Univ of Economics and Business

12:27 A two-step estimator of haplotype relative risks with clustered survival data
Daniel Gillen, Sean Brummel, Univ of California, Irvine
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Chair/Author(s)</th>
</tr>
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<tbody>
<tr>
<td>11:00</td>
<td>Invited Session 1</td>
<td>Breakthroughs in Longitudinal Data</td>
<td>Geert Molenberghs (University Hasselt, Belgium)</td>
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<tr>
<td>11:00</td>
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<td>Functional Linear Models for Output-Buffered Systems</td>
<td>James O. Ramsay (McGill University, Canada)</td>
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<tr>
<td>11:25</td>
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<td>Estimation of optimal treatment strategies from longitudinal observational studies with intermittent clinic visits</td>
<td>Andrea Rotnitsky (Universidad Di Tella, Argentina)</td>
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<td>11:50</td>
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<td>Model Assessment Tools for Joint Models of Longitudinal and Time-to-Event Data</td>
<td>Dimitris Rizopoulos (Erasmus University, The Netherlands)</td>
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<tr>
<td>12:15</td>
<td></td>
<td>Inference on treatment effects from a randomized clinical trial in the presence of premature treatment discontinuation: The SYNERGY trial</td>
<td>Anastasios Tsiatis (North Carolina State University, US)</td>
</tr>
<tr>
<td>11:00</td>
<td>Invited Session 2</td>
<td>Genomic Data Integration using Sparse Matrix Decomposition Methods</td>
<td>Aeilko H Zwinderman (Netherlands)</td>
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<tr>
<td>11:00</td>
<td></td>
<td>A general framework for sparse matrix decomposition techniques</td>
<td>Daniela Witten (University of Washington, US)</td>
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<td>11:30</td>
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<td>Genetic control of genome wide expression in brain cancer tissue: nonlinear sparse CCA</td>
<td>Sandra Waaijenborg (University Medical Center Utrecht, The Netherlands)</td>
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<td>12:00</td>
<td></td>
<td>Unravelling omics datasets with sparse PLS</td>
<td>Kim-Anh Le Cao (University of Queensland, Australia)</td>
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<tr>
<td>12:30</td>
<td></td>
<td>Discussant</td>
<td>Paul Eilers (Erasmus University Rotterdam, The Netherlands)</td>
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<td>12:45</td>
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<td>Lunch</td>
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<tr>
<td>14:00</td>
<td>Contributed Oral 2</td>
<td>Epidemiological Methods I</td>
<td>Stijn Vansteelandt (Ghent University, Belgium)</td>
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<tr>
<td>14:00</td>
<td></td>
<td>Genetic Modifiers of Menopausal Hormone Therapy associated Breast Cancer Risk - A Meta-Analysis of Four Genome-Wide Association Studies</td>
<td>Jenny Chang-Claude, Rebecca Hein, Lars Beckmann, German Cancer Res Ctr; Kamilia Czene, Per Hall, Karolinska Instt; Sara Lindstrom, Harvard Sch of Public Health; Jianjun Liu, Genome Inst of Singapore; Hei Nevalinna, Helsinki Univ Central Hosp; Yuqing Li, Genome Inst of Singapore; Dieter Flesch-Janys, Univ Medical Ctr Hamburg-Eppendorf</td>
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<tr>
<td>14:17</td>
<td></td>
<td>Epidemiological Model Using Cellular Automata</td>
<td>Rosana Massahud, Izraet Charret, Univ of Lavras</td>
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<tr>
<td>14:35</td>
<td></td>
<td>Checking a semiparametric model for doubly truncated data</td>
<td>Carla Moreira, Jacobo de Uña-Alvarez, Univ of Vigo</td>
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<tr>
<td>14:52</td>
<td></td>
<td>Analysing covariates with spike at zero: conceptual issues and properties of a fractional polynomial procedure</td>
<td>Heiko Becher, Eva Lorenz, Univ of Heidelberg; Patrick Royston, MRC Clinical Trials Unit and Univ Coll; Willi Sauerbrei, Univ of Freiburg</td>
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<tr>
<td>15:10</td>
<td></td>
<td>Propensity scores and estimators of the odds ratio</td>
<td>Christiana Drake, Travis Loux, Univ of California, Davis</td>
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<tr>
<td>15:27</td>
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<td>Choice of estimators based on different observations: Modified AIC and LCV criteria</td>
<td>Benoit Liquet, Daniel Commenges, INSERM U897 Bordeaux</td>
</tr>
</tbody>
</table>
Monday, 6 December 2010: 14:00 – 15:45 (cont.)

14:00 Contributed Oral 2: Genomics
Chair: Guilherme J.M. Rosa (University of Wisconsin, US)

14:00 Biodiversity estimation: unraveling the T-cell receptor repertoire in the body’s cellular ecosystem
Nuno Sepuveda, Insto Gulbenkian de Ciencia; Carlos Daniel Paulino, Insto Superior Tecnico/ UTL, Lisbon; Michele Guindani, Univ of New Mexico; Peter Muller, M. D. Anderson Cancer Ctr; Jorge Carneiro, Insto Gulbenkian de Ciência

14:17 Application of the Equi-Energy sampler to mixture models
Denys Pommeret, Mathematical Inst of Luminy; Melli Baragatti, Ispogen and Mathematical Inst of Luminy

14:35 A Poisson Hurdle Model for Homopolymer Base-Calling of 454 Sequencing Data
Kristof De Beuf, Lieven Clement, Olivier Thas, Ghent Univ

14:52 On the glog-SMN distribution and its application to a gene expression problem
Mariana Rodrigues-Motta, Filidor Edifonso Vilca Labra, Univ de Campinas - UNICAMP

15:10 Characteristics of dna methylation array data
Sally Galbraith, The Univ of New South Wales

15:27 A generalized additive model framework for underdispersed count data with an application to miRNA qPCR data
Lieven Clement, Peter Pipelers, Olivier Thas, Jean-Pierre Ottoy, Ghent Univ

14:00 Contributed Oral 2: Social Research
Chair: Cristian Meza (Universidad de Valparaíso, Chile)

14:00 Exposure to road shows is associated with more knowledge, and positive beliefs, attitudes and social norms regarding exclusive breastfeeding among men and other community members in rural Zimbabwe
Bernard Chasekwa, Zvimba Project

14:17 Height and union formation in India
Jeroen Smits, Radboud Univ Nijmegen; Christiaan Monden, Oxford Univ

14:35 Disability, Health, Poverty and Hardship: a longitudinal analysis
Said Shahtahmasebi, WINTEC

14:52 Bayesian hierarchical dynamic models for cortisol stress response on preschoolers: cross culture emotion regulation
Niko Kaciroti, Univ of Michigan

15:10 Perceptions about self-care ability of the elderly users of the gerontogeriatric nursing program of fluminense federal university
Dirley Santos, Univ Federal Fluminense; Marcia Andrade, Pontificia Univ Católica; Selma Sá, Univ Federal Fluminense; Carlos Coimbra, Museu de Astronomia e Ciências Afins

15:27 Design-Based Random Permutation Models With Auxiliary Information
Wenjun Li, Univ of Massachusetts Medical Sch; Edward J. Stanek III, Univ of Massachusetts; Julio M. Singer, Univ de São Paulo

14:00 Invited Session 3: Efficient dose finding in drug development
Chair: José Pinheiro (Johnson & Johnson PRD, US)

14:00 The Challenge of Improving Dose Selection in Drug Development: Recommendations from the Adaptive Dose-Ranging Studies Working Group
Chyi-Hung Hsu (Novartis)

14:25 Model-based Adaptive Designs for Dose-ranging Studies
Vlad Dragalin (Wyeth Pharmaceuticals, US)

14:50 Recent Developments in Designing Experiments for Dose Finding Studies
Christine Kiss (Bochum University, Germany)

15:15 Discussant
Ekkehard Glimm (Novartis)

14:00 Invited Session 4: Statistical ecology and conservation
Chair: Byron J Morgan (Univ of Kent, Canterbury, United Kingdom)

14:00 Genotype Uncertainty: Accounting for genotyping error in mark-recapture-type studies using low copy number DNA
Richard Barker (University of Otago, New Zealand)

14:30 The 2010 biodiversity target: are biodiversity monitoring programmes fit for purpose?
Stephen T. Buckland (University of St. Andrews, Scotland)

15:00 Model discrimination and goodness-of-fit techniques for complex ecological models
Rachel McCrea (University of Kent, Canterbury, UK)

15:30 Discussant
Tore Schweder (University of Oslo, Norway)
Wake up coffee break

Monday, 6 December 2010: 16:15 – 18:00

16:15 Contributed Oral 3: Agriculture I
Room 9C
Chair: Sue Welham (Rothamsted Research, UK)

16:15 Mixed models with splines in an agricultural application: nitrate leaching as affected by tillage and winter cover crop management
Esther Meenken, Patricia Fraser, Mike Beare, Denis Curtin, Frank Table, Tina Harrison-Kirk, New Zealand Inst for Plant and Food Res

16:32 An alternative methodology for imputing missing data in trials with genotype-by-environment interaction
Sergio Arciniegas Alarcón, Marisol Garcia Peña, Univ Nacional de Colombia

16:50 Strategies for screening interactions between many factors
Susan Lewis, Univ of Southampton

17:07 SNP genotyping of tetraploid potato cultivars: a comparison of mixture models
Gerrit Gort, Roeland Voorrips, Fred van Eeuwijk, Wageningen Univ; Paul Eilers, Erasmus medical center

17:25 Modelling bunch yield stability in oil palm using different stability statistics
Maxwell Okoye, Nigerian Inst for Oil Palm Res (NIFOR)

17:42 Structuring genotype x environment interaction by curvilinear regression
Stanislaw Mejza, Iwona Mejza, Poznan Univ of Life Sciences

16:15 Contributed Oral 3: Experimental Design in Clinical Trials
Room 9A-B
Chair: Jane Hutton (Warwick University, UK)

16:15 Optimal allocation of patients in the two-stage randomised clinical trial design
Stephen Walter, McMaster Univ

16:32 Sample size determination in clinical trials with multiple co-primary endpoints including mixed continuous and binary variables
Takashi Sozu, Kyoto Univ; Tomoyuki Sugimoto, Toshimitsu Hamasaki, Osaka Univ

16:50 Three-arm non-inferiority trials with a prespecified margin for binary endpoints
Eisuke Hida, Natl Inst of Public Health; Toshiro Tango, Ctr for Medical Statistics

17:07 A comparison of methods for the statistical analysis of clustered data
Sally Galbraith, The Univ of New South Wales; James Daniel, Children’s Medical Res Inst; Bryce Vissel, Garvan Inst of Medical Res

17:25 Genotype-stratified phase I trials in oncology
Motomi Mori, Yiyi Chen, Byung Park, Joshi Alumkal, Oregon Health & Science Univ

16:15 Contributed Oral 3: High Dimensional Data I
Room 9D
Chair: Harald Binder (University Medical Center, Freiburg, Germany)

16:15 Assessing multiple micronutrient deficiencies in undernourished populations through the plasma nutriproteome
Ingo Ruczinski, Johns Hopkins Univ

16:32 A General Method to Identify Genes that have a Biologically Meaningful Pattern of Association with Multiple Related Phenotypes
Stan Pounds, St. Jude Children’s Res Hosp

16:50 Disease mapping with long study periods and changing census boundaries
Patrick Brown, Cancer Care Ontario; Lennon Li, Steve Fan, James Stafford, Univ of Toronto

17:07 A simple method for detecting gene-gene interactions from genome-wide SNP data
Masaru Ushijima, Minoru Isomura, Yoshio Miki, Masaaki Matsuura, Japanese Fndn for Cancer Res

17:25 Evaluation of four discrimination rules for the assignment of metabolic functions of proteins of lactococcus lactis using phylogenetic profiles
Liliana López Kleine, Nicolas Molano Gonzalez, Univ Nacional de Colombia

17:42 Constrained Ordination Analysis in Metagenomics Microbial Diversity Studies
Olivier Thas, Ghent Univ
Monday, 6 December 2010: 16:15 – 18:00 (cont.)

16:15 | Contributed Oral 3: Regression Methods
Reitoria Auditorium

- On calculating confidence intervals when using inverse probability weighting
  **Hendrik Boshuizen**, Natl Inst of Public Health and the Environment

- Modified Wald residuals in generalized linear models with non canonical link
  **Mariana Urbano**, Clarice Demétrio, ENSAQL, Gauss Cordeiro, UFRPE

- Joint Method in Model Regression
  **Hope Mbachu**, Imo State Polytechnic Umuagwo Owerri Imo State Nigeria

17:07 | On the recoding of continuous and bounded health indexes to a binomial form: An application to quality of life scores
**Inmaculada Arostegui**, Vicente Núñez-Antón, Univ of the Basque Country (UPV/EHU)

Monday, 6 December 2010: 18:00 – 19:30

18:00 | Poster Session 1
Conference Venue Hall

**Session: Agricultural, Plant and Animal Sciences**

- **M1** Modeling Underdispersed Longitudinal Counts
  **Eduardo Davila, Luis Alberto López**, Univ Nacional de Colombia

- **M2** Multiple factorial analysis apply to the interpretation of genotype by environment interactions
  **Maria Gabriela Cendoya, Gabriela Paola Zapico, Juan Manuel De Santa Eduviges**, Facultad de Ciencias Agrarias

- **M3** Comparison between models of hipsometric relationship with and without a spatial component for Pinus sp
  **Júlio Pereira**, Débora Mourão, Verônica Scalet, Carlos Souza, UFSCAR

- **M4** A Frailty Modeling Approach for Parental Effects in Animal Breeding
  **Suely Giolo**, Federal Univ of Parana; Clarice Demétrio, Univ of Sao Paulo

- **M5** Common bean cropping regionalization in Rio Grande do Sul state, Brazil, based on genotype x environment interaction
  **Clause Fátima de Brum Piana, João Gilberto Corrêa da Silva**, Univ Federal de Pelotas; Irajá Ferreira Antunes, Embrapa Clima Temperado

- **M6** Sampling methods and sample size to evaluate the maturation state of the Niagara Rosada grape
  **Elton Araújo**, Federal Univ of Mato Grosso do Sul

- **M7** Incorporating Soft Data in the Kriging Equations
  **Megan Liedtke, Dr. David Marx, Dr. Stephen Kachman**, Univ of Nebraska-Lincoln

- **M8** Bayesian multiple comparisons with skew-normal error
  **Marcos Oliveira, UFSJ; Daniel Ferreira**, UFLA

- **M9** Grazing Spatial and Temporal Distribution of Domestic Animals
  **Maria Gabriela Cendoya, Estanislao Díaz Falú, Miguel A. Brizuela, Silvia Cid**, Facultad de Ciencias Agrarias

- **M10** Spatio-temporal analysis of transmission of Avi Flu outbreak in Nigeria
  **Oyelola Adegbeye**, The American university of Afghanistan

- **M11** Bayesian and non-Bayesian analysis of germinations curves using a nonlinear model
  **Terezinha Guedes, Robson Rossi, Clédina Acorsi, Sebastião Gazola**, Univ Estadual de Maringá

- **M12** Schemes of optimal sampling in maps estimated by kriging
  **Gener Pereira**, Univ Estadual Paulista
M13 Determination of a point sufficiently close to the asymptote in nonlinear growth functions
Lídia Carvalho, Univ Estadual Paulista

M14 Effect of spatial autocorrelation on accuracy estimates in land use maps derived from remote sensing
Teresa Boco, INTA

M15 Influence Ratio Method: an alternative approach to cluster analysis
Silvia Maria De Freitas, Federal University of Ceará

M16 Selecting the best sugarcane families based on Regression trees
Diego Palva Bernardes, Luis Alexandre Peternelli, Suelen Cristina Alves, Univ Federal de Viçosa

M17 Biplot and joint plot graphics to study the triple interaction
Lucio Araujo, Federal Univ of Uberlândia; Mario Varela, INCA; Mirian Araujo, Federal Univ of Uberlândia; Carlos Dias, Univ of São Paulo

M18 The trait measured affects experimental design efficiency in a barley variety trials
Maria Inês Berro, Laura Nalbarte, Lucia Gutierrez, Univ de la Republica del Uruguay

M19 The Log-Generalized Modified Weibull Regression Model
Edwin Ortega, Univ de São Paulo; Gauss Cordeiro, Univ Federal de Pernambuco; Jalmir Carrazza, Univ de São Paulo

M20 Statistical models for QTL mapping associated to counting data
Fabyano Silva, Univ Federal de Viçosa; Karen Pallota Tunin, ESALQ-USP; Guilherme J.M. Rosa, Univ of Wisconsin

M21 R functions for analyzing split-plot schemes
Eric Ferreira, Pártya Cavalcanti, Univ Federal de Alfenas

M22 A Conceptual Basis for the Experimental Research
João Gilberto da Silva, Univ Federal de Pelotas

M23 Some statistical approaches in estimating lambing rates with merino ewes
Mario D’Antuono, Dept of Agriculture and Food, Govt of Western Australia

M24 Extension to multiple covariates in the estimation of instantaneous risk function of the Aalen additive model
Luciane Giarola, UFSI - Univ Federal de São João del Rei; Mario Vivanco, Marcelo Cirillo, UFLA - Univ Federal de Lavras

M25 Comparison of confidence intervals methods for the size of a population under a binomial mark capture-recapture sampling
Luís Salasar, José Galvão, UFSCar

M26 Exploration of Bayesian estimation of sensitivity and specificity in the absense of a golden standard
Wim Swart, Harold van der Heijden, GD Animal Health Service, Deventer, Netherlands; Arjan Stegeman, Faculty of Veterinary Med, Univ of Utrecht, the Netherlands

M27 QTL detection for growth traits in swine outbred populations by Random Regression models using free softwares
Valéria Pinheiro, Fabyano Silva, Guilherme Rosa, Paulo Lopes, Simone Guimarães, Cosme Cruz, Univ Federal De Viçosa (UFV)

M28 Censored zero-inflated gamma distribution. Estimation methods and a simulation study
Vanderly Janeiro, Univ Estadual de Maringá, Silvio Sandoval Zochi, Universidade de São Paulo

M29 Sample size determination for estimating distributions of fruit diameters using simulation
Maria del Carmen Romero, Univ Nacional del Ctr de la Provincia de Buenos Aires; Pablo Daniel Reeb, Univ Nacional del Comahue; Julio Alejandro Di Rienzo, Univ Nacional de Córdoba

M30 Geostatistics analysis for distribution of the vector leafhopper and the disease CVC
Valéria Pereira, Edison Ramos, Marcello de Mello, Adrilayne Araujo, Silvia Almeida, Univ Federal do Pará

M31 Spatial distribution of the Azteca Barbifex in the production of citrus from geostatistics
Valéria Pereira, Edison Ramos, Marcello de Mello, Adrilayne Araujo, Silvia Almeida, Univ Federal do Pará

M32 A Study of the impact of the hygienic practices of milking on the total amount of milk produced in the milk through MLG
Idemauro de Lara, Jeanele Moreira, Univ Federal do Rio Grande do Norte; Angela Gracindo, EMATER -RN; Genildo Pereira, EMATER-RN

M33 Statistical tests in logistic regression under separation condition
Andre Oliveira Souza, Sebastiao Martins Filho, Univ Federal de Viçosa; Enrico Antonio Colosimo, Univ Federal de Minas Gerais; Fabyano Fonseca Silva, Univ Federal de Viçosa

M34 Comparison between classical anova and ANOVA-AR in agronomic field trials, with spatial dependence, by simulation
Cristtian Paixão, Diogo Rossoni, Renato Lima, Univ Federal de Lavras

M35 Crossover Designs: AB/BA
Daniele Rodrigues, UFV; Carla Vivacqua, UFRN; Antônio Carneiro, UFV

M36 Identify of regression models and parameters equality applied in the seeds germination of Jatropha curcas L
Rafael Dalvi Nunes, Sebastiao Martins Filho, Adair José Regazzi, Marcio Dias Pereira, Univ Federal de Viçosa

M37 A classification rule involving two multivariate normal populations with estimated parameters when one population is singular
Mbanofo Madukafje, Univ of Nigeria Nsukka
M38  Fouling mechanism study on the microfiltration of passion fruit juice  
Ricardo Oliveira, Sueli Barros, Diego de Paulo, Robson Rossi, Univ Estadual de Maringá

M39  Multivariate classification of growth models for beef lambs genetic groups  
Fernanda Silveira, Univ Federal de Lavras; Fabiano Fonseca e Silva, Univ Federal de Viçosa

M40  Bayesian inference for association of molecular markers (SNP) with weaning weight in Nellore cattle using different models  
Diego de Córado Cucco, USP; Luís Varona, UNIZAR; José Bento Sterman Ferraz, Fernanda Marcondes de Rezende, Elisângela Chicaroni de Mattos, Joann Pereira Eler, USP

M41  Sunflower yield: adjustment of data means by the combination of anova and regression models  
Maria Neves de Oliveira, César Castro, Fábio Oliveira, Embrapa Soja

M42  The description of new peccary species from northernmost brazilian amazonia through multivariate analysis  
Nathália Silva, Hélio Souza-Júnior, Marcelo Luna-Júnior, Antonio Pontes, Francisco Cysneiros, UFPE

M43  Evaluation of pattern synchrony among climatic variables using Cross Sample Entropy  
José Rodrigo Silva, Lázaro de Souto Araújo, Vinícius Pereira do Sacramento, Manoel Rivelino Oliveira, Paula José Duarte-Neto, Tatijana Stosic, Borko Stosic, Univ Federal Rural de Pernambuco

M44  Variability of the multiple imputation method under different percentages of missing data  
Melissa Carvalho, Luiz Alexandre Peternelli, Mariane Alves, Univ Federal de Viçosa

M45  Evaluation of the experimental variation’s coefficient for fruit peppers characters  
Anderson Rodrigo da Silva, Universidade Federal de Viçosa; Elizanilda Ramalho do Rêgo, Universidade Federal da Paraíba; Paula Roberto Cecon, Moyzes Nascimento, Rafael Oliveira, Elisangela Oliveira, Luciane da Silva Oliveira, Universidade Federal de Viçosa

M46  Approach Classical and Bayesian in symmetric models processed applied to estimate growth in Eucalyptus urophylla in Gypsum Pole of Ararípe – PE  
Kleber Barros, José Antônio Silva, Patrícia Barros, Univ Federal Rural de Pernambuco

M47  Bayesian analysis of growth curve of Nellore beef cattle  
Fabiane Silva, Elizabeth Hashimoto, ESALQ/USP; Mauricio Alencar, Embrapa Pecuária Sudeste; Alfredo R. de Freitas, Gerson B Mourao, CNPq’s scholarship

M48  Multivariate analysis of variance for a group of variables analyzed to characterize the soil in a randomized complete blocks design  
Simone Sartorio, Marina Maestre, Sônia Piedade, Univ de São Paulo - ESALQ; César Lima, Univ de São Paulo - FZEA; Cláudio Marciano, Univ Estadual do Norte Fluminense - Ctr de Ciências e Tecnologias Agropecuárias; Fernando Oliveira, Biossolo Agricultura & Ambiente Ltda

M49  Seed Stress Analysis via Zero-inflated Proportion Data Models  
Afranio Vieira, Univ de Brasilia; Joseane da Silva, Juliana Pádua, Brazilian Agricultural Res Corp – EMBRAPA

M50  Analysis of temporal correlations of drought severity in Brazil  
Gabriel Melo, Carlos Souza, Dennis Souza, Tatijana Stosic, Borko Stosic, Univ Federal Rural de Pernambuco

M51  Optimization of the velocity-area method for river discharge measurement  
José Rodrigo Silva, Borko Stosic, Moacir Cunha Filho, Jose Ramon Barros Cantalice, Univ Federal Rural de Pernambuco

M52  Statistical analysis of family selection in sugar cane: a comparison between REML/BLUP and bayesian approaches  
Luiz Peternelli, Marcio Barbosa, Fabiano Silva, Univ Federal de Viçosa; Guilherme Rosa, Univ of Wisconsin

M53  Use of spatial analysis and corrected F-tests in unreplicated trials  
Francisco Babinec, EEA Anguil

M54  Assessment of reproducibility of animal behaviour measures  
Francisco Babinec; Mariano Alende, Gabriela Volpi Lagreca, EEA Anguil

M55  Analyses of nonlinear mixed-effects models with scale mixtures of normal distributions  
Cibele Russo, Univ de São Paulo; Victor Hugo Lachos, Univ Estadual de Campinas; Reiko Aoki, Gilberto Paula, Univ de São Paulo

M56  Optimization of fitness function in Evolutionary Computation System applied to the forecasting of time-series  
David Silva, Tiago Ferreira, Paulo Neto, Federal Rural Univ of Pernambuco

M57  Fitting the compound Poisson model to a mass egg data set  
Lucimary Santos, Renata Alcarde, Vanderly Janeiro, Greice Erler, Clarice Demétrio, Sônia Piedade, Octávio Nakano, ESALQ/USP

M58  Multivariate techniques in the study of genetic diversit  
Elisângela Oliveira, Paula Cecon, Luciane Oliveira, Fernando Finger, Univ Federal de Viçosa; Priscila Faria, Escola Superior de Agricultura Luiz de Queiroz; Fabiano Silva, Anderson Silva, Univ Federal de Viçosa

M59  Non linear models fitting for balanced and unbalanced data  
Liliane Cordeiro, Diana Campos, Antônio Policarpo, UFV

M60  Use of geostatistics for optimization sampling of forestry inventory  
Rogério Santana, Nerlison Terra, UFV
M61 Aplicação de modelos de crescimento não lineares em tubarão-junteiro (Carcharhinus porosus)
David Silva, Cicero Brito, José Antonio Aleixo, Rinaldo Ferreira, Eufrazio Santos, Gabriel Rivas, Univ Federal Rural de Pernambuco

M62 Using the UPGMA method in studies of Genetic Diversity
Luciane Oliveira, Paulo Ceccon, Elisângela Oliveira, Anderson Silva, Fabiano Silva, Fernando Finger, Univ Federal de Viçosa

M63 Aplicação de modelos de crescimento não lineares em leucena [Leucaena leucocephala (Lam) de Wit]
David Silva, Cicero Brito, José Antonio Aleixo, Rinaldo Ferreira, Eufrazio Santos, Univ Federal Rural de Pernambuco

M64 Aplicação de modelos matemáticos na estimativa do crescimento de eucaliptos Eucalyptus tereticornis
David Silva, Cicero Brito, José Antonio Aleixo, Rinaldo Ferreira, Gabriel Rivas, Univ Federal Rural de Pernambuco

M65 Study of different approaches for genetic parameter estimation of visual scores in Nellore cattle
Diego de Córdova Cucco, USP / FSEA; Luis Varona, UNIZAR; José Bento Stemman Ferraz, Rachel Santos Bueno, Elisângela Chicarioni de Mattos, Joarim Pereira Eler, USP / FSEA

M66 Bayesian model selection using the sparse effects, hierarchy and heredity principles
Guilherme Biz, Silvio Zocchi, Roseli Leandro, ESALQ-USP

M67 Validation of a model to simulate changes of soil organic carbon stock in the arable layer
María Monterubbianesi, Guillermo Studdert, Germán Domínguez, Univ Nacional de Mar del Plata

M68 Geostatistical modelling and analysis for compositional data
Ana Martins, Univ Estadual de Maringá; Paulo Ribeiro Jr, Wagner Bonnat, Univ Federal do Paraná; Antônio Gonçalves, Univ Estadual de Maringá

M69 Measuring the Rectangularization of Life Tables Using the Gompertz Distribution
Peter Pflaumer, Technical Univ of Dortmund

M70 Dunnet’s modified test and a study of the efficiency of some multiple comparison tests
Clarice Demétrio, ESALQ/USP; Armando Conagin, IAC; Décio Barbin, ESALQ/USP

Tuesday, 7 December 2010: 08:15 – 10:00

08:15 Contributed Oral 4: Epidemiological Methods II
Room 9C
Chair: Adriana Perez (The Univ of Texas Health Science Center at Houston, US)

08:15 Effect of population stratification on quantitative trait locus association analyses
Saurabh Ghosh, Tanushree Haldar, Indian Statistical Institute

08:32 An ascertainment-adjusted score test for gene-environment interactions in family-based association studies
Tasha Fingerlin, Weiming Zhang, Gary Grunwald, Univ of Colorado Denver; Carl Langefeld, Wake Forest Univ

08:50 Inference for a common odds ratio in stratified studies
Ionut Bebu, Christopher Loffredo, George Luta, Georgetown Univ

09:07 Poisson Regression Used to Correct Noisy Variability in the Logistic Regression: an Application to Evaluate the Survival Immediate After Cardiac Arrest in the CODE Register (Cardiac arrest Outcomes Date Evaluation)
Mariana T. Carballo, Helio P. Guimarães, HCor; Álvaro Avezum, Dante Pazzanezi; Helder Jose de Lima Reis, Hosp de Clínicas Gaspar Viana; Jose Antonio Manetta, Hosp Albert Sabin; Ligia N. Laranjeira, Otavio Berwanger, HCor; on behalf of CODE investigators, Res Div-Dante Pazzanez Inst of Cardiology

09:25 Uncovering selection bias in case-control studies using Bayesian poststratification
Sara Geneletti, London Sch of Economics and Political Science; Nicola Best, Sylvia Richardson, Mireille Toledano, Paul Elliott, Imperial Coll London

09:42 Shared frailty models and the estimation of heterogeneities in transmission
Paddy Farrington, Steffen Unkel, Open Univ

08:15 Contributed Oral 4: Experimental Design
Reitoria Auditorium
Chair: Sally Galbraith (The University of New South Wales, Australia)

08:15 Dose finding designs for responses of mixed types: the model based approach
Valerii Fedorov, GlaxoSmithKline

08:32 Optimal Designs for Generalised Linear Mixed Models
David Woods, Univ of Southampton

08:50 D-optimal designs for the two-variable binary logistic model without interaction
Gaetan Kabera, Medical Res Council, South Africa; Principal Ndlovu, Univ of South Africa; Linda M. Haines, Univ of Cape Town

09:07 Bayes factors and experimental design for genome-wide association studies
Roderick Ball, Scion (NZ Forest Res Inst Limited)

09:25 Conflicts between optimality criteria for block designs with low replication
R. Bailey, Queen Mary, Univ of London

09:42 Evaluation of central composite designs as an optimization method for crop production technologies under field experimentation conditions
Dariusz Zaluski, Janusz Golaszewski, Aneta Stawiana-Kosiorek, Anna Imiolek, Univ of Warmia and Mazury in Olsztyn
Tuesday, 7 December 2010: 08:15 – 10:00 (cont.)

08:15 Contributed Oral 4: Mixed Models
Room 9A-B
Chair: Thomas Kneib (Carl von Ossietzky Universität, Germany)

The gradient function as an exploratory goodness-of-fit assessment of the random-effects distribution in mixed models
Geert Verbeke, Geert Molenberghs, I-Biostat, K.U.Leuven and U.Hasselt

Random effects in cumulative mortality models
John Hinde, NUI Galway

New challenges in Semiparametric Nonlinear Mixed-Effects Models Estimation
Ana Arribas-Gil, Univ Carlos III de Madrid; Cristian Meza, Univ de Valparaiso

Approximate inference in generalized linear mixed models with flexible random effects densities
Georgios Papageorgiou, John Hinde, Natl Univ of Ireland, Galway

Prediction with measurement errors: do we really understand the BLUP?
Julio Singer, Univ de Sao Paulo; Edward Stanek, Univ of Massachusetts; Viviana Lencina, Univ Nacional de Tucuman; Luz Mery Gonzalez, Univ Nacional de Colombia; Wenjun Li, Univ of Massachusetts-Worcester; Silvina San Martin, Univ Nacional de Mar del Plata

The special features of multivariate regression chains
Nanny Wermuth, Chalmers/Gothenburg Univ

08:15 Contributed Oral 4: Survival Models
Room 9D
Chair: Francisco Louzada Neto (Universidade federal de Sao Carlos, Brazil)

Evaluating discrimination abilities of joint models for time-to-event and longitudinal marker
Hélène Jacqmin-Gadda, Inserm

Estimation of treatment effect based on possibly misspecified cox regression
Satoshi Hattori, Kurume Univ; Masayuki Henmi, The Inst of Statistical Mathematics

Comparing flexible Bayesian survival models in health economic evaluations
Christopher Jackson, Linda Sharples, Simon Thompson, MRC Biostatistics Unit, Cambridge

A Log-linear Regression Model for the Beta-Weibull Distribution
Edwin Ortega, Universidade de São Paulo; Gauss M. Cordeiro, Universidade Federal Rural de Pernambuco, Elizabeth M. Hashimoto, Universidade de Sao Paulo

Analysis of data from the MESS trial through the joint modelling of pre-randomisation event rates and multiple post-randomisation survival times with cure rates
Jennifer Rogers, Jane Hutton, Univ of Warwick

Mixture regression models of the residual life with a event-free fraction for censored data
Wei-Hwa Chang, Taiwan Suicide Prevention Ctr; Chen-Hsin Chen, Academia Sinica; Y. Q. Chen, Fred Hutchinson Cancer Res Ctr

08:15 Invited Session 5: Processing and analysis of Genomic array data
Garapuvu Auditorium
Chair: Ingo Ruczinski (Johns Hopkins Univ, Baltimore, MD)

Simple models for microarray data
Matthew Ritchie (The Walter and Eliza Hall Institute of Medical Research, Australia)

Multivariate mixture models for scoring copy number variation in genetic association studies
Vincent Plagnol (University of Cambridge, UK)

Statistical assessment of chromosomal aberrations at the cohort level
Franck Picard (Laboratoire Biometrie et Biologie Evolutive, France)

Statistical models for calling genotypes and copy number in high throughput genotyping platforms: principles and software
Rob Scharpf (Johns Hopkins University, US)

10:00 Coffee Break
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Contributed Oral 5: <strong>Bayesian Methods II</strong></td>
<td>Chair: Carlos Daniel Paulino (University of Lisboa, Portugal)</td>
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<tr>
<td>10:30</td>
<td></td>
<td>Bayesian Hierarchical Model for Mapping Multiple QTL considering a F2 Population</td>
<td>Renato Pereira, Roseli Leandro, ESALQ/USP</td>
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<td>10:47</td>
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<td>Association mapping of malting quality traits in barley and model selection</td>
<td>Lucia Gutierrez, Univ de la Republica del Uruguay</td>
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<td>11:05</td>
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<td>Applications of approximate Bayesian inference for latent Gaussian spatio-temporal models</td>
<td>Wagner Bonat, Paulo Ribeiro Jr, UFPR</td>
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<td>11:22</td>
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<td>Hierarchical bayesian model to integrate individual data on ecological regression analysis</td>
<td>Laura Grisotto, Dolores Catelan, Annibale Biggeri, Dept of Statistics “G.Parenty” Univ of Florence</td>
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<td>11:40</td>
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<td>Bayesian analysis on 3 parameter IRT models for admission exams in UFLA, years 2006 to 2009</td>
<td>Maria Bragon, Univ Federal de Lavras</td>
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<td>11:57</td>
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<td>Assessing the Spatial Distribution of Mussel Seed Using Structured Additive Regression Models for Zero-inflated Count Data</td>
<td>Maria P. Pata, Univ of Santiago de Compostela</td>
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<td>10:30</td>
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<td>Contributed Oral 5: <strong>Bioinformatics</strong></td>
<td>Chair: Andrew Mead (Warwick University, UK)</td>
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<td>10:30</td>
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<td>Using statistical model to correct genomic wave in high density oligo arrays</td>
<td>Jiqiu Cheng, Katholieke Univ Leuven; Bernard Thienpont, Babraham Inst, Cambridge; Peter Konings, Evelyne Vanneste, Thierry Voet, Joris Robert Vermeesch, Yves Moreau, Katholieke Univ Leuven</td>
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<td>10:47</td>
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<td>Statistical methodology for the analysis of multi-sample ChIP-chip experiments</td>
<td>Tristan Mary-Huard, AgroParisTech / INRA; Marie-Laure Martin-Magniette, Caroline Berard, Stephane Robin, INRA</td>
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<td>11:05</td>
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<td>Treating dependent data as independent: a composite likelihood method and its applications to population genetics, phylogenetics and forensic genetics</td>
<td>Arindam RoyChoudhury, Columbia Univ</td>
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<td>11:22</td>
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<td>The Mathematical Modeling of Gene Regulatory Networks and the detection of interacting QTLs using Regularization Paths</td>
<td>Martin Boer, Cajo ter Braak, Fred van Eeuwijk, WUR</td>
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<td>11:40</td>
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<td>Association tests for X-chromosomal markers -- A comparison of different test statistics</td>
<td>Christina Loley, Inke König, Andreas Ziegler, Univ zu Lübeck</td>
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<td>11:57</td>
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<td>Case-Parent Triad Studies of Genetic Association and Gene-Gene Interaction in the Presence of Missing Data</td>
<td>Tracy Bergemann, Univ of Minnesota; Matthew Deyo-Svendsen, Univ of Minnesota Medical Sch -- Duluth Campus</td>
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<td>10:30</td>
<td>Contributed Oral 5: <strong>Missing Data Methods</strong></td>
<td>Chair: Mike Kenward (London School of Hygiene &amp; Tropical Medicine, UK)</td>
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<td>10:30</td>
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<td>Doubly Robust Pseudo-likelihood estimation for incomplete data</td>
<td>Geert Molenberghs, Univ Hasselt; Geert Verbeke, Katholieke Univ Leuven; Michael Kenward, London Sch of Hygiene and Tropical Med; Birhanu Teshome Ayele, Univ Hasselt</td>
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<td>10:47</td>
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<td>Formalising the use of causal diagrams in missing data problems</td>
<td>Rhian M. Daniel, Michael G. Kenward, Simon N. Cousens, Blanca L. De Stavola, London Sch of Hygiene and Tropical Med</td>
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<td>11:05</td>
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<td>Comparing Diagnostic Tests with Missing Data</td>
<td>Frederico Poletto, Julio Singer, Univ of Sao Paulo; Carlos Daniel Paulino, Technical Univ of Lisbon</td>
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<td>11:22</td>
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<td>The Impact of Dropouts on the Analysis of Dose-Finding Studies with Recurrent Event Data</td>
<td>Mouna Akacha, Univ of Warwick; Norbert Benda, Federal Inst for Drugs and Medical Devices (BFArM)</td>
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<td>11:40</td>
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<td>A semi-parametric, time-varying means model approach to pattern mixture models</td>
<td>Samantha MacWhinney, Colorado Sch of Public Health; Jeri Harwood, Univ of Colorado Denver, Sch of Med</td>
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<td>10:30</td>
<td>Contributed Oral 5</td>
<td>High Dimensional Data II</td>
<td>Lizzy De Lobel, Ugent; Lutgarde Thijs, Tatiana Kouznetsova, Jan Staessen, KU Leuven; Kristel Van Steen, Univ de Liège</td>
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<td>10:47</td>
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<td>An interactive multidimensional analysis tool based on radial visualization</td>
<td>Carmelo A. Ávila Zarza, Moisés Inestroza, Roberto Theron, Univ of Salamanca</td>
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<td>11:05</td>
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<td>A detailed view on Model-Based Multifactor Dimensionality Reduction with quantitative traits for detecting gene-gene interactions: different ways of adjusting for lower-order effects</td>
<td>Jestinah Mahachie John, Univ of Liege</td>
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<td>11:22</td>
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<td>Discriminant analysis of principal components: a new approach for the analysis of genetically structured populations</td>
<td>Thibaut Jombart, Imperial Coll London</td>
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<td>11:40</td>
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<td>Predicting Multitrait Phenotypes from Genomic and Genetic data via Gaussian Markov Random Fields and L1 Penalties</td>
<td>Patricia Menendez, Martin Boer, Cajo ter Braak, Fred van Eeuwijk, Biometris; Paul Eilers, Erasmus medical center</td>
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<td>10:30</td>
<td>Invited Session 6</td>
<td>Spatial methods for tropical disease epidemiology</td>
<td>Peter J Diggle (United Kingdom)</td>
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<td>10:30</td>
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<td>Spatio-temporal modelling of meningitis incidence in sub-Saharan Africa</td>
<td>Michelle Stanton (Lancaster University, UK)</td>
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<td>11:00</td>
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<td>The IRI data-library: a resource for tropical disease epidemiology</td>
<td>Madeleine Thomson (Columbia University, US)</td>
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<td>11:30</td>
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<td>Risk-factors for Leptospirosis in tropical Brazil</td>
<td>Marília Sa Carvalho (Fiocruz, Brazil)</td>
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<td>12:15</td>
<td>Lunch</td>
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<td>10:30</td>
<td>Posters</td>
<td>Genetics and Genomics; Clinical Trials and Cancer Research</td>
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<td>12:15</td>
<td>Poster Session 2</td>
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<td>M71</td>
<td>Study of statistical properties of adaptive walks on correlated adaptation landscapes</td>
<td>Jose Filho, Viviane Oliveira, Universidade Federal Rural de Pernambuco</td>
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<td>M72</td>
<td>Identifying variables associated with classification of genotypes using molecular markers and morphological traits: A Biplot representation based on Procrustes rotation</td>
<td>Johnny R Demey, Insto de Estudios Avanzados; Maria Purificación Galindo-Villardón, Univ de Salamanca; Asia Yusely Zambrano, Rodríguez, Francis Fuenmayor, Insto Nacional de Investigaciones Agrícolas; José Luis Vicente-Villardón, Univ de Salamanca</td>
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<td>M73</td>
<td>The Allelic Penetrance Approach: a new statistical modeling framework for genetic analysis</td>
<td>Nuno Sepúlveda, Insto Gulbenkian de Ciencia; César Correia, Carlos Daniel Paulino, Insto Superior Tecnico; Carlos Penha-Gonçalves, Insto Gulbenkian de Ciencia</td>
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<td>M74</td>
<td>MCMC simulation methods applied to genetic mapping</td>
<td>Moysés Nascimento, Ana Carolina Campana, Luiz Alexandre Peternell, Univ Federal de Viçosa; Adésio Ferreira, Univ Federal do Espírito Santo; Cosme Cruz, Paula Cecon, Univ Federal de Viçosa</td>
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<td>M75</td>
<td>Association between responses of two methods for adaptability and stability of genotypes</td>
<td>Moysés Nascimento, Ana Carolina Campana, Luiz Alexandre Peternell, Univ Federal de Viçosa; Marcelo Cirillo, Univ Federal de Lavras; Adésio Ferreira, Univ Federal do Espírito Santo; Reinaldo de Paula, Embrapa Pecuária Sudeste</td>
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<td>M76</td>
<td>Skew normal additive mixed models for gene expression data</td>
<td>Daniela Oliveira, UFES; Fábio Corrêa, Júlio Bueno Filho, UFAL</td>
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<td>M77</td>
<td>Analysis of Microarray Data using Mixed Effects Models</td>
<td>Luo Dongwen, Agres Ltd</td>
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<td>M78</td>
<td>First order autoregressive panel data model applied to microarray time series analysis: a bayesian framework</td>
<td>Gilson Rocha, Fabiano Silva, Moysés Nascimento, Telma Morais, Univ Federal de Viçosa; Thelma Sáfadi, Univ Federal de Lavras</td>
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<td>M79</td>
<td>Clustering Electroencephalography Data Using Density Estimation</td>
<td>George von Barries, Gilson Matos, Univ de Brasília; Ricardo von Barries, Univ of Texas at El Paso</td>
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<td>M80</td>
<td>Bayesian estimation of redundancy measures in EST from cDNA library</td>
<td>Fernanda Paula, Fabiano Silva, Moysés Nascimento, Simone Guimarães, Sebastião Filho, Universidade Federal de Viçosa</td>
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<td>M81</td>
<td>Multistage strategy in the genetic mapping in family studies using SNP data</td>
<td>Mirian Souza, IME-USP; Suely Ruiz Gioia, UFPR; Julia Maria Pavan Soler, IME-USP</td>
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<td>M82</td>
<td>Using mixed models with a mixture of normal distributions for the random residual effect leads to a fast and powerful genomewide association test</td>
<td>Tom Cattaert, Univ of Liege; Lizzy De Label, Ghent Univ; Kristel Van Steen, Univ of Liege</td>
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<td>M83</td>
<td>Comparison of partitional and hierarchical clustering in protein data</td>
<td>Juliana Cespedes, Federal Univ of Itajubá</td>
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<td>M84</td>
<td>Path analysis for yield components on selection of sugarcane families selection</td>
<td>Deiciana Espósito, Luiz Peterelli, Univ Federal de Viçosa</td>
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<td>M85</td>
<td>Genetic Diversity among Pepper accessions using Tocher Method</td>
<td>Filipe Sávio, Priscila Fario, Escola Superior de Agricultura Luiz de Queiroz – USP; Paulo Cecon, Fernando Finger, Univ Federal de Viçosa; José Pinheiro, Escola Superior de Agricultura Luiz de Queiroz – USP</td>
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<td>M86</td>
<td>Incomplete Steiner Triple Systems over balanced square lattices to diallel analysis</td>
<td>Rosânia Alves, Júlio Bueno Filho, Univ Federal de Lavras</td>
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<td>M87</td>
<td>A two-step multiloci strategy in case-parent trio data</td>
<td>Maria Batista, Federal Univ of Ceará; Júlia Soler, Univ of São Paulo; Alexandre Pereira, Univ of São Paulo - Heart Inst (InCor)</td>
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<td>M88</td>
<td>Classification of alleles of a multiallelic locus in the study of genetic association with the development of diseases</td>
<td>Marcela Alicia Juliarena, Edgardo Rodriguez, Carolina Ceriani, Silvina Gutierrez, Eduardo Nestor Esteban, Facultad de Ciencias Veterinarias</td>
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<td>M89</td>
<td>Comparative study of methods of three-way data analysis for characterization of plant genetic resources evaluated in different environments</td>
<td>Sergio Bramardi, Andrea Lavalie, Marta Marticorena, Pablo Reeb, Univ Nacional del Comahue; Raquel Defacio, INTA; Cecilia Gonzalez, Univ Nacional de La Plata</td>
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<tr>
<td>M91</td>
<td>Comparison of Estimation Methods Under Incomplete Samples: An Application to the Hardy-Weinberg Balance</td>
<td>Allan Robert da Silva, Carlos Raphael Daniel, Luiz Henrique Dore, Univ Federal de Sergipe</td>
<td></td>
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<tr>
<td>M92</td>
<td>Analyzing Gene Expression Data through Quantitative and Categorical Approaches in Congenic Rat Strains</td>
<td>Júlia Soler, Inst of Mathematics and Statistics</td>
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<tr>
<td>M93</td>
<td>FLIM - Free Interface for Microarray Analysis using Bioconductor</td>
<td>Luciane Oliveira, Otávio Brustolini, Paulo Cecon, Fabyano Silva, Univ Federal de Viçosa</td>
<td></td>
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<tr>
<td>M94</td>
<td>Hidden Markov chain on the Location of homogeneous regions in DNA sequences</td>
<td>Luciano Souza, Kleber Barros, Kleber Santoro, Univ Federal Rural de Pernambuco</td>
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<tr>
<td>M95</td>
<td>Marginal (GEE) Regression Model to evaluate multiple components in Cancer-Specific Geriatric Assessment (C-SGA)</td>
<td>Soe Soe Thwin, VA-Boston Healthcare System</td>
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<tr>
<td>M96</td>
<td>Quantile calculus and censored regression</td>
<td>Yijian Huang, Emory Univ</td>
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<tr>
<td>M98</td>
<td>Minimum-norm estimation for a bi-exponential survival model</td>
<td>Yuval Nov, Univ of Haifa</td>
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<tr>
<td>M99</td>
<td>Fitting Poisson models sequentially to explore cancer mortality trends in Argentina</td>
<td>Camila Niclis, Sonia Pou, Univ Nacional de Córdoba; Alberto Osella, Istituto Nazionale di Ricovero e Cura a Carattere Scientifico; María del Pilar Díaz, Univ Nacional de Córdoba</td>
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<tr>
<td>M100</td>
<td>The Negative Binomial-Generalized Gamma Regression Model With Cure Rate</td>
<td>Gladys Barriga, Univ Estadual Paulista; Edwin Ortega, Elizabeth Hashimoto, Univ de São Paulo; Vicente Cancho, Univ Estadual Paulista</td>
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<tr>
<td>M101</td>
<td>Interactive Effects of Alcohol and Tobacco on Head and Neck Cancer, A Visualization using Bivariate Splines</td>
<td>Jennifer Clark, Andrew Olshan, Amy Herring, Univ of North Carolina, Chapel Hill</td>
<td></td>
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<tr>
<td>M102</td>
<td>Estimators for the bivariate distribution function of censored gap times</td>
<td>Luís Machado, Univ of Minho</td>
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<tr>
<td>M103</td>
<td>Modeling geographic and temporal variations in cancer mortality: environmental factor effects through multilevel approach</td>
<td>Sonia Pou, Univ of Córdoba; Alberto Osella, Istituto Nazionale di Ricovero e Cura a Carattere Scientifico “Saverio de Bellis”; María del Pilar Díaz, Univ of Córdoba</td>
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</tbody>
</table>
M104 Vertical modeling: analysis of competing risks data with missing causes of failure
Mioara Alina Nicolaie, Leiden Universitair Medical Ctr; Hans C. van Houwelingen, Leiden Universitair Medical Ctr; Hein Putter, Leiden Universitair Medical Ctr

M105 Consequences of Dichotomization
Frank Mannino, Valerii Fedorov, GlaxoSmithKline

M106 Time Varying Survival Curves
Urania Dafni, Univ of Athens; Dimitris Karlis, Athens Univ of Economics

M107 Mixed response models for bladder cancer in Cordoba, Argentina
Maria del Pilar Diaz, Maria Dolores Roman, Florencia Ines Roque, Alicia Navarro, Univ of Cordoba; Alberto R Osella, Lab of Epidemiology and Biostatistics, RCCS Saveria de Bellis

M108 A generalized modified Weibull distribution for lifetime modeling
Jalmar Carrasco, Edwin Ortega, Univ de São Paulo; Gauss Cordeiro, Univ Federal de Pernambuco

M109 Longitudinal count data model with heterogeneity in the intra-patient variation
Hideaki Uehara, Tsumura & Co.; Masako Nishikawa, Kunihiko Takahashi, Eisuke Hido, Kazue Yamaoka, Natl Inst of Public Health; Toshiro Tango, Ctr for Medical Statistics

M110 Assessment biostatistics cardiovascular risk in individuals in the city of Belém, from the framingham score concomitant with their independent variables
Cássio Pinho dos Reis, Jasson Cardoso Morais, Silvia dos Santos de Almeida, Univ Federal do Pará

M111 Nutritional profile of elderly cardiac patients at a university hospital in Belém, PA
Cássio Pinho dos Reis, Ana Carla Moreira da Silva, Silvia dos Santos de Almeida, Univ Federal do Pará

M112 Construction of Exact Optimal Designs for the Michaelis-Menten and Hill Models
Iuri Ferreira, Luzia Trinca, Cláudia Ferreira, IBB-UNESP

M113 Sequential factorial design for the formulation of a culture media to optimize the biomass and bacteriocin production of lactobacillus salivarius subsp. Salivarius CRL 1328
Elena Bru, Maria Silvina Juárez Tomás, Ctr de Referencia para Lactobacilos; Birgitt Wiese, Medische Hochschule Hannover; Maria Elena F. Nader-Macias, Ctr de Referencia para Lactobacilos

M114 The statistical and clinical interplay in dose-finding experiments with combination therapies
Mauro Gasparini, Politecnico di Torino; Stuart Bailey, Beat Neuenschwander, Novartis Pharma AG

M115 Designing Experiments for a Pharmacokinetic Model with Correlated Errors
Mauricio Santos, Bioinse; Luzia Trinca, UNESP

M116 Longitudinal, bounded health scores modelled by censored skew-normal distributions
Jane Hutton, Univ of Warwick; Elena Stanghellini, Univ of Perugia; Rosa Capobianco, Univ of Roma Tre

M117 Alcohol and colorectal cancer risk: a modeling strategy for consumption and non-consumption
Maria del Pilar Diaz, Sonia Alejandra Pou, Univ of Córdoba; José Eduardo Corrente, Inst de Biociencias. Univ do Estado de Sao Paulo (UNESP). Campus de Botucatu

M118 Comparing methods of analysis for cluster cross-over randomized trials with binary response
Marta Quaglino, Leandro Kovalevski, Valeria Milanes, Facultad de Ciencias Económicas y Estadistica - Univ Nacional de Rosario

M119 Spatial Analysis Strategies to Study Cancer Incidence Distribution in Córdoba, Argentina
Nancy Stanecka, Patricia Caro, Margarita Diaz, Maria del Pilar Diaz, Univ Nacional de Córdoba

M120 Association Of the C Reactive Protein with the Metabolic Syndrome in Students of the Federal University of Viçosa
Daniele Rodrigues, Mariane Silva, Kiriaque Barbosa, Antônio Policarpo, Josefina Bressan, UFV

M121 A full Bayesian semiparametric approach for modeling survival data with cure fraction
Fabio Demarqui, UFMG; Dipak Dey, UCONN; Rosangela Loschi, Enrico Colosimo, UFMG

M122 Kernels Techniques for Testing In Vitro “Similarity” of Drug Dissolution Profiles
Denis Enachescu, Cornelia Enachescu, Acad of Romania

M123 Cured Fraction Bayesian Estimating on heart failure patients waiting for a transplant
Paulo Junior, UFMG; Maria Regina Tavares, UPPA

M124 Bayesian Analysis for a Model for Survival Data with a Cure Rate: Estimation and Case Influence Diagnostics
Alessandra Sibim, Vicente Cancho, Univ de São Paulo – USP

M125 The new Kum-Log-logistics distribution applied to survival data
Tiago Santana, UNICAMP; Marcelino A. R. de Pascoa, Univ de Sao Paulo

M126 The Hjort-Poisson lifetime distribution
M. Aparecida Franco, Estela Bereta, Francisco Louzada Neto, Univ Federal de São Carlos

M127 Efficiency of Designs for Longitudinal Recurrent Event Studies with Missing Data
Elizabeth Juarez-Colunga, Simon Fraser Univ

M128 The generalized time dependent logistic family with Frailty
Eder Milani, Vera Tomazella, Teresa Cristina Dias, UFSCar
M129 Comparative study between two Bayesian approaches in QTL mapping
Andrea Meyer, Univ Estadual Paulista; Renato Nunes Pereira, Univ de São Paulo; Roseli Aparecida Leandro, Univs de São Paulo; Adhemar Sanches, Univ Estadual Paulista

M130 Modeling Bayesian partition for survival data of long-term
Jhon Franky, Universidade Federal de São Carlos

M131 Efficiency of the use of information a priori in analysis of adaptability and stability of genotypes
Mayes Nascimento, Fabiana Silva, Univ Federal de Viçosa; Thelma Sáfadi, Univ Federal de Lavras; Ana Carolina Campana, Univ Federal de Viçosa; Reinaldo Ferreira, Embrapa Pecuária Sudeste

M132 Grouping data from dominant markers using supervised pattern classification
Pedro Ramos Cerqueira, Roseli Aparecida Leandro, ESALQ-USP; Juliana Garcia Cespedes, UNIFEI–Itajubá

M133 Bayesian reference analysis of the Hardy-Weinberg equilibrium
Vera Lucia Tomazella, Univ Federal de São Carlos

M134 Test, estimation and model comparison for the meiosis I non-disjunction fraction in trisomies
Vanessa Silva, Rosangela Loschi, Univ Federal de Minas Gerais

M135 Handling missing data from high-throughput protein abundance experiments
Kevin Chang, Bioinformatics Inst, Sch of Biological Sciences, Univ of Auckland, New Zealand; Richard G. Jarrett, CSIRO Mathematics, Informatics and Statistics, Adelaide, Australia; Katya Ruggiero, Sch of Biological Sciences, Univ of Auckland, New Zealand

M136 Selecting an exponential random graph model for complex brain networks
Sean Simpson, Satoru Hayasaka, Paul Laurienti, Wake Forest Univ Sch of Med

M137 Sample Size Calculations for Comparing Two Proportions in Clinical Research
Arminda Siqueira, Wilson Oliveira, Kleber Barros, Univ Federal Rural de Pernambuco; Adenilton Silva, Univ Federal de Pernambuco

Tuesday, 7 December 2010: 14:00 – 15:45

14:00 On comparison of clustering methods for pharmacoepidemiological data
Lise Bellanger, Fanny Feuillet, Jean-benoit Hardouin, Véronique Sébille, Univ de Nantes

14:17 Diffusion of Surgical Innovation in Kidney Cancer Patients Using Trees
Mousumi Banerjee, Univ of Michigan

14:35 Clustering Based on Adherence Data
Sylvinio Muyingo, Univ of Tampere

14:52 Mixture model cluster analysis for medical diagnosis under different covariance structures using information complexity
Bahar Erar, Hamparsum Bozdogan, The Univ of Tennesseee

15:10 Semi-Supervised Recursively Partitioned Mixture Models for Identifying Cancer Subtypes
Devin Koestler, Brown Univ

15:27 A statistical method for the partial area under the ROC curve based on a boosting procedure
Osamu Komori, Shinto Eguchi, The institute of Statistical Mathematics

14:00 Contributed Oral 6: Longitudinal Data
Chair: Raúl Macchiavelli (University of Puerto Rico)

14:00 Semiparametric varying coefficient model proposals for longitudinal data
Vicente Núñez-Anton, Susan Orbe-Mandaluniz, Univ del País Vasco (UPV/EHU); Juan M. Rodriguez-Poo, Univ de Cantabria

14:17 Modelling the Rate of Change in a Longitudinal Study with Missing Data, Adjusting for Contact Attempts
Mouna Akacha, Jane L. Hutton, Univ of Warwick

14:35 Joint Modeling of Longitudinal Measurements and Interval-censored Competing Risk Data
Ralph Aue, Robert Rosenheck, Haikun Lin, Yale Univ

14:52 Outcome dependent sampling for continuous longitudinal response data
Jonathan Schildcrout, Vanderbilt Univ

15:10 Competing regression models for longitudinal data
Airlane Alencar, Julio Singer, Insto de Matemática e Estatística; Francisco Marcelo Rocha, Insto de Psicologia

15:27 A longitudinal model for repeated interval-observed data
Amita Manatunga, Emory Univ; Huichao Chen, Ctr for Biostatistics in AIDS Res; Robert Iyles, Limin Peng, Michele Marcus, Emory Univ
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>14:00</td>
<td><strong>Contributed Oral 6: Stochastic Processes</strong></td>
<td>Estimation of periodic autoregressive processes: A frequency domain approach</td>
<td>Alessandro José Sarnaglia, Univ Federal de Minas Gerais; Valderio Anselmo Reisen, Univ Federal do Espírito Santo; Céline Lévy-Leduc, Télécom ParisTech</td>
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<tr>
<td>14:35</td>
<td><strong>Contributed Oral 6: Stochastic Processes</strong></td>
<td>The stochastic system approach to life-course epidemiology</td>
<td>Daniel Commenges, INSERM; Anne Gégout-Petit, Univ Bordeaux 2</td>
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<tr>
<td>14:52</td>
<td><strong>Contributed Oral 6: Stochastic Processes</strong></td>
<td>Random walk modeling of fishing vessel trajectories</td>
<td>Rocio Joo, Sophie Bertrand, Inst de Recherche pour le Développement (IRD); Jean-Michel Marin, Univ Montpellier II; Ricardo Oliveros, Insto del Mar del Perú</td>
</tr>
<tr>
<td>15:10</td>
<td><strong>Contributed Oral 6: Stochastic Processes</strong></td>
<td>Improving the Prediction of Non-Linear Time Series with Hybrid Methods Using the Correct Statistical Measure</td>
<td>Aranildo Lima Junior, David Silva, Univ Federal Rural de Pernambuco; Paulo Mattos Neto, Univ Federal de Pernambuco; Tiago Ferreira, Univ Federal Rural de Pernambuco</td>
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<tr>
<td>14:00</td>
<td><strong>Contributed Oral 6: Survival Data III</strong></td>
<td>A New Estimator of Survival When Death Is Reported with Delay</td>
<td>T. Charles Casper, Univ of Utah; Thomas Cook, Univ of Wisconsin-Madison</td>
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<td>14:17</td>
<td><strong>Contributed Oral 6: Survival Data III</strong></td>
<td>Islet Transplantation in Diabetes</td>
<td>Jawahar Tiwari, FDA</td>
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<tr>
<td>14:52</td>
<td><strong>Contributed Oral 6: Survival Data III</strong></td>
<td>'Designing' Observational Studies</td>
<td>Cara Dooley, Natl Univ of Ireland, Galway</td>
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<tr>
<td>15:10</td>
<td><strong>Contributed Oral 6: Survival Data III</strong></td>
<td>Lorenz curves, concentration, and treatment-covariate interactions in survival analysis</td>
<td>Marco Bonetti, Bocconi Univ</td>
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<td>15:27</td>
<td><strong>Contributed Oral 6: Survival Data III</strong></td>
<td>Competing risks models with unobservable failure cause and dependence between failure causes</td>
<td>Rodrigo Tsai, Luiz K. Hotta, UNICAMP</td>
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<tr>
<td>14:00</td>
<td><strong>Jabes Showcase</strong></td>
<td>Presentations of the paper judged as the best publication in JABES in 2008/9 by a member of the IBS, together with presentations of some of the other short-listed papers</td>
<td>Chair: Byron Morgan (University of Kent, England)</td>
</tr>
<tr>
<td>14:00</td>
<td><strong>Jabes Showcase</strong></td>
<td>Mountains, Valleys, and Rivers: The Transmission of Raccoon Rabies over a Heterogeneous Landscape</td>
<td>Lance Waller, David Wheeler, Emory Univ, Atlanta</td>
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<tr>
<td>14:30</td>
<td><strong>Jabes Showcase</strong></td>
<td>Bayesian Spatial Modelling of Data from Avian Point Count Surveys</td>
<td>Raymond Webster, Kenneth Pollock, Theodore Simons, Intl Pacific Halibut Commission, Seattle</td>
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<tr>
<td>14:48</td>
<td><strong>Jabes Showcase</strong></td>
<td>Formulating mixed models for experiments, including longitudinal experiments</td>
<td>Chris Brien, Clarice Demétrio, Univ of South Australia, Australia</td>
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<tr>
<td>15:06</td>
<td><strong>Jabes Showcase</strong></td>
<td>On modeling repeated binary responses and time-dependent missing covariates</td>
<td>Fang Yu, Ming-Hui Chen, Lan Huang, Paul R Neal, Gregory J Anderson, Univ of Nebraska Medical Ctr, Omaha</td>
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<tr>
<td>15:24</td>
<td><strong>Jabes Showcase</strong></td>
<td>Inferences for genotyping error rate in ancestry identification from simple sequence repeat marker profiles</td>
<td>Hongmei Zhang, Hal Stern, Univ of South Carolina, Columbia</td>
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<td>15:45</td>
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<td>Coffee Break</td>
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<td>16:15</td>
<td>Room 9D</td>
<td><strong>Contributed Oral 7: Animal Science</strong></td>
<td>Mario Martínez Araya, Univ of Chile; Reinaldo Arellano-Valle, Pontifical Catholic Univ of Chile</td>
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<tr>
<td>16:32</td>
<td></td>
<td>Bayesian modelling of the mean and covariance matrix in normal nonlinear models</td>
<td>Edilberto Cepeda, Univ Nacional de Colombia; Vicente Núñez-Ántón, Univ del País Vasco</td>
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<tr>
<td>16:50</td>
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<td>QTL mapping for swine carcass traits: a Bayesian factor analysis approach</td>
<td>Fabiano Silva, Univ Federal de Viçosa; Guilherme J.M. Rosa, Univ of Wisconsin; Gustavo dos los Campos, Univ of Alabama; Paulo Sávio Lopes, Simone E. F. Guimarães, Univ Federal de Viçosa</td>
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<td>17:07</td>
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<td>LASSO techniques for predicting complex phenotypes using genetic markers from throughout the genome: A case study with chicken</td>
<td>Júlio Bueno Filho, Univ Federal de Lavras</td>
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<tr>
<td>16:15</td>
<td>Room 9A-B</td>
<td><strong>Contributed Oral 7: Causal Inference</strong></td>
<td>Daniel Commenges (INSERM, University Bordeaux 2, France)</td>
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<td>16:15</td>
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<td>Mediation Analysis of Survival Data</td>
<td>Theis Lange, Dept of Biostatistics, Univ of Copenhagen</td>
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<td>16:50</td>
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<td>On model selection in causal inference</td>
<td>Maarten Bekaert, Stijn Vansteelandt, Ghent Univ; Gerda Claeskens, KU Leuven</td>
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<td>17:07</td>
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<td>The random discontinuity design in epidemiology</td>
<td>Sara Geneletti, London Sch of Economics and Political Science; Gianluca Bai, Univ Coll London</td>
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<td>17:25</td>
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<td>Causal Inference in Randomized Controlled Trials with non-adherence – untestable assumptions vs uninterpretable parameters?</td>
<td>Krista Fischer, MRC Biostatistics Unit; Jack Bowden, MRC Clinical Trials Unit; Ian White, Simon Thompson, MRC Biostatistics Unit</td>
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<td>17:42</td>
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<td>Mendelian randomisation analysis of case-control data using Structural Mean Models</td>
<td>Jack Bowden, MRC Clinical Trials Unit; Stijn Vansteelandt, Ghent Univ</td>
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<td>16:15</td>
<td>Reitoria Auditorium</td>
<td><strong>Contributed Oral 7: Environmental Research I</strong></td>
<td>Robert Harrison and Marcia Ciol (University of Washington, US)</td>
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<tr>
<td>16:15</td>
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<td>A statistical distribution applied to the study of environmental quality in Santiago, Chile</td>
<td>Carolina Marchant, Victor Leiva, Univ de Valparaiso; Antonio Sanhueza, Univ de La Frontera; Fernanda Cavieres, Univ de Valparaiso</td>
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<td>16:32</td>
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<td>Bayesian space-time models for responses in the exponential family: an application to a rainfall data set in Australia</td>
<td>Ana Carolina da Costa, Níncia Hansen, Marina Paez, Flávia Landim, Univ Federal do Rio de Janeiro</td>
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<td>16:50</td>
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<td>Smooth space-time quantile maps based on regularly spaced observations</td>
<td>Dana Draghicescu, Hunter Coll, CUNY</td>
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<td>17:07</td>
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<td>Credibility distributional grade geostatistics for modeling spatial inequalities</td>
<td>Njeri Wabiiri, Human Sciences Res Council</td>
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<td>17:25</td>
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<td>Regression models for exceedance data via the full likelihood</td>
<td>Fernando Nascimento, UFPF; Dan Gamerman, UFRJ; Hedibert Lopes, Univ of Chicago</td>
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<td>17:42</td>
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<td>Improving velocity-area method for river discharge measurement</td>
<td>Vinicius do Sacramento, Borko Stosic, Moacyr Cunha Filho, Jose Ramon Barros Cantalice, UFRPE</td>
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<td><strong>Tuesday, 7 December 2010: 16:15 – 18:00 (cont.)</strong></td>
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<td>16:15</td>
<td>Contributed Oral 7: <strong>Software and Computational Methods</strong></td>
<td>Edmilson Rodrigues Pinto, Leandro Alves Pereira, Federal Univ of Uberlandia</td>
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<td>16:15</td>
<td>Room 9C</td>
<td>Geert Molenberghs (University Hasselt, Belgium)</td>
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<tr>
<td>16:15</td>
<td>Teaching Optimal Design of Experiments Using the Software R</td>
<td>Tamara Slusarenko, Line Harder Clemmensen, Technical Univ of Denmark</td>
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<td>16:32</td>
<td>Canonical correlation analysis in education: associations between student evaluations of courses and instructors</td>
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<td>16:50</td>
<td>Majority vote with bimodal distribution of noise</td>
<td>Aranildo Lima Junior, Tiago Ferreira, Univ Federal Rural de Pernambuco; Francisco Moreira, Univ Federal de Pernambuco</td>
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<tr>
<td>17:07</td>
<td>Power Enhanced, Bootstrapped Multiple Testing</td>
<td>Rajat Mukherjee, Nestle Res Ctr</td>
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<td>17:25</td>
<td>Are descriptive multivariate techniques useful for the determination of protein functions from genomic data?</td>
<td>Liliana López Kleine, Luis Eduardo Ospina Forero, Univ Nacional de Colombia</td>
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<tr>
<td>16:15</td>
<td>Invited Session 7: <strong>Recent developments in estimating and modelling relative survival</strong></td>
<td>Niels Keiding (Denmark)</td>
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<td>16:15</td>
<td>Age-standardisation of the relative survival ratios</td>
<td>Timo Hakulinen (Finnish Cancer Registry, Finland)</td>
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<tr>
<td>16:45</td>
<td>Estimating the crude probabilities of death due to cancer and other causes using flexible parametric relative survival models</td>
<td>Paul Lambert (University of Leicester, UK)</td>
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<td>17:15</td>
<td>Goodness of fit of the relative survival models</td>
<td>Janez Stare (Institute for Biomedical Informatics, Slovenia)</td>
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<td>17:45</td>
<td>Discussant</td>
<td>Paul Dickman (Karolinska Institute, Sweden)</td>
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<td><strong>Tuesday, 7 December 2010: 18:15 – 19:15</strong></td>
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<tr>
<td>18:15</td>
<td>Awards Presentation and Celebration of 25 IBCs</td>
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<td>Garapuvu Auditorium</td>
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<td><strong>Wednesday, 8 December 2010</strong></td>
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<td><strong>Mid-conference Tours</strong></td>
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<td><strong>Thursday, 9 December 2010: 08:15 – 10:00</strong></td>
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<td>08:15</td>
<td>Contributed Oral 8: <strong>Agriculture II</strong></td>
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<td>08:15</td>
<td>Room 9D</td>
<td>Hans-Peter Piepho (Universitat Hohenheim, Germany)</td>
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<tr>
<td>08:15</td>
<td>Confidence intervals for cavalieri sampling</td>
<td>Chris Glasbey, Biomathematics &amp; Statistics Scotland</td>
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<tr>
<td>08:32</td>
<td>Modelling a repeated ordered categorical response with penalised splines using MCEM</td>
<td>Sue Welham, Rothamsted Res; Tu Ho, James Carpenter, London Sch of Hygiene and Tropical Med</td>
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<tr>
<td>08:50</td>
<td>Modeling Multivariate Overdispersed Binomial Data</td>
<td>Eduardo Davila, Luis Alberto López, Univ Nacional de Colombia</td>
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<tr>
<td>09:07</td>
<td>Fractional and factorial designs as components of a research methodology for testing crop production technologies</td>
<td>Janusz Golaszewski, Anna Zaręba, Dariusz Żaluski, Anna Imiolek, Aneta Stawiana-Kosiorek, Krystyna Żuk-Golaszewska, Univ of Warmia and Mazury</td>
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<tr>
<td>09:25</td>
<td>Spatio-Temporal Modelling for Pricing Area Yield Crop Insurance Contracts</td>
<td>Ramiro Ruiz-Cardenas, Federal Univ of Minas Gerais; Elias Teixeira Krainski, Federal Univ of Paraná</td>
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<td>09:42</td>
<td>Size and power properties of some tests in the Birnbaum-Saunders regression model</td>
<td>Artur Lemonte, Silvia Ferrari, Univ of Sao Paulo</td>
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<td>Time</td>
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<td>08:15</td>
<td>Contributed Oral 8: Clustering in Genetics and Genomics</td>
<td>Chair: Elizabeth Thompson (University of Washington, US)</td>
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<td></td>
<td>Analyzing Time-Course Microarray Data using Functional Data Analysis</td>
<td>Norma Coffey, Ntl Univ of Ireland, Galway</td>
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<td></td>
<td>Clustering with exclusion zones: Genomic applications</td>
<td>Mark Segal, Yuanxuan Xiao, Univ of California San Francisco</td>
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<td>Assessing Similarity of DNA Profiles</td>
<td>Graham Hepworth, Ian Gordon, The Univ of Melbourne</td>
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<td>09:07</td>
<td>Improving visualization of interaction effects of expressed genes in microarray studies</td>
<td>Elmer Fernandez, Univ Catolica de Cordoba; Edgardo Salvaterra, Carolina Bizama, Felipe Benavente, Manuel Gidekel, VentureLab; Osvaldo Podhajcer, Insto Ieloir; Monica Balzarini, Univ Nacional de Cordoba</td>
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<td>09:25</td>
<td>QTL Mapping in sugarcane using Composite Interval Mapping considering an integrated genetic map</td>
<td>Rodrigo Gazaffi, Gabriel R. A. Margarido, Marcelo Mollinari, Maria Marta Pastina, ESALQ/USP; Karine Miranda de Oliveira, CTC; Anete Pereira de Souza, UNICAMP; Antonio Augusto Franco Garcia, ESALQ/USP</td>
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<td>09:42</td>
<td>Gene expression profiling of multiple autoimmune diseases</td>
<td>Joaofilis Leon Andrade, Univ de Brasilia</td>
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<tr>
<td>08:15</td>
<td>Contributed Oral 8: Latent Variable Methods</td>
<td>Chair: John Neuhaus (University of California, San Francisco, US)</td>
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<td></td>
<td>On assessing age-varying association in bivariate current status data</td>
<td>Steffen Unkel, C. Paddy Farrington, The Open Univ</td>
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<td>Latent Class Analysis of Millon Adolescents Clinical Inventory (MACI)</td>
<td>Mirta Santana, Marcela D’Urso, Liliana Galindo, Liliana Fracchia, Univ Nacional de Tucumán</td>
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<td>08:50</td>
<td>Bayes PLS: Near optimal prediction from relevant components</td>
<td>Inge Helland, Solve Saebo, Hakon Tjelmeland, Norwegian Univ of Life Sciences</td>
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<tr>
<td>09:07</td>
<td>Latent class model with familial dependence to address heterogeneity in complex diseases: adapting the approach to family-based association studies</td>
<td>Alexandre Bureau, Univ Laval; Jordie Croteau, Ctr de recherche Univ Laval - Robert-Giffard; Aurélie Labbe, McGill Univ; Chantal Mérète, Univ Laval</td>
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<tr>
<td>09:25</td>
<td>Applications of latent variable models in health sciences</td>
<td>Meriç Yavuz Çolak, Korkut Ersoy, Başkent Univ healthcare management department</td>
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<td>09:42</td>
<td>An IRT Probit Model with Skew-normal Latent Traits Distribution: An Application to the Measurement of Depression Levels</td>
<td>Caio Azevedo, Univ of Campinas; Dalton Andrade, Federal Univ of Santa Catarina; Heleno Wolfarine, Univ of Sao Paulo</td>
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<td>08:15</td>
<td>Contributed Oral 8: Miscellaneous</td>
<td>Chairs: Víctor Leiva (Universidad de Valparaíso, Chile) and Antonio Sanhueza (Universidad de la Frontera, Chile)</td>
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<td>Time-varying coefficient model component estimation through generalized estimation equations</td>
<td>Juan Sosa, Luis Díaz, Natl Univ of Colombia</td>
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<td>Can compositional constraints on 'omics' data lead analyses astray?</td>
<td>Warren Muller et al, CSIRO Mathematics, Informatics and Statistics</td>
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<td>A cluster analysis based on vital statistics and its characterization in latin american countries</td>
<td>Claudia Castro-Kuriss, Buenos Aires Inst of Technology</td>
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<tr>
<td>08:50</td>
<td>Application of neural networks in archaeological data</td>
<td>Paulo Oliveira, Casimiro Munita, Ipen-Cnen-Sp</td>
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<td>09:07</td>
<td>A Bayesian Model Using Non-Proportionally Sampled Survival Data</td>
<td>Samuel Manda, South African Medical Res Council</td>
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<td>09:42</td>
<td>An analysis of the excess mortality from dengue in epidemic periods</td>
<td>Camila Resende, Dani Gamerman, Univ Federal do Rio de Janeiro</td>
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<tr>
<td>08:15</td>
<td>Invited Session 8: Epidemiological surveillance: space-time approaches and multiple testing problems</td>
<td>Chair: Annibale Biggeri (Italy)</td>
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<td>Approaches to Space-time Surveillance</td>
<td>Renato Martins Assunção (Universidade Federal de Minas Gerais, Brazil)</td>
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<td>Hierarchical Bayesian modelling of False Discovery Rate in Disease Mapping</td>
<td>Dolores Catelan (University of Florence, Italy)</td>
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<td>Point process based infectious disease surveillance</td>
<td>Michael Höhle (Ludwig-Maximilians Universitat, Germany)</td>
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<td>09:45</td>
<td>Discussant</td>
<td>Paulo Justiniiano Ribeiro Jr. (Universidade Federal do Paraná, Brazil)</td>
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### Thursday, 9 December 2010: 08:15 – 10:00 (cont.)

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<th>Time</th>
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<th>Presenters</th>
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<tr>
<td>08:15</td>
<td>Invited Session 9: Statistical issues in vaccine studies</td>
<td>Tsai-Lien Lin (MD)</td>
<td>A. Dale Horne (FDA/CBER, US)</td>
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<tr>
<td>08:40</td>
<td>Statistical issues for non-inferiority analysis in multi-valent vaccine trials</td>
<td>Frank Guanghan Liu (Merck Research Laboratories, US)</td>
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<td>09:05</td>
<td>How to handle safety analyses in vaccine randomized clinical studies</td>
<td>Brigitte Cheuvart (GSK Biologicals, Belgium)</td>
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<td>09:30</td>
<td>New statistical methods for assessing vaccine safety in the field</td>
<td>Paddy Farrington (The Open University, UK)</td>
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**Coffee Break**

### Thursday, 9 December 2010: 10:20 – 12:05

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Chair</th>
<th>Presenters</th>
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<tr>
<td>10:20</td>
<td>Contributed Oral 9: Disease Mapping</td>
<td>Dolores Catelan (University of Florence, Italy)</td>
<td>M Gloria Icaza, Loreto Núñez, Univ de Talca; Francisco Torres Avilés, Univ de Santiago de Chile; Nora Díaz Sanzana, Univ de Talca; José Emilio Villarroel de la Sota, Dept de Epidemiología, Ministerio de Salud de Chile</td>
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<tr>
<td>10:37</td>
<td>Spatio-temporal modelling of dengue risk sensitivity to climate variability in Brazil</td>
<td>Rachel Lowe, Trevor Bailey, David Stephenson, Univ of Exeter</td>
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<tr>
<td>10:55</td>
<td>Inferring the neighborhood structure in Bayesian spatial model</td>
<td>Erica Rodrigues, Renato Martins Assunção, UFMG</td>
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<tr>
<td>11:12</td>
<td>Estimating the prevalence and the force of infection of Parvovirus B19 in Belgium using hierarchical Bayesian mixture models</td>
<td>Emanuele Del Fava, Hasselt Univ</td>
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<tr>
<td>11:30</td>
<td>Covariace Matrices in Space-Time Bayesian Models</td>
<td>Renato Assunção, Univ Federal de Minas Gerais</td>
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**Contributed Oral 9: Environmental Research II**

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Chair: Mihoko Minami (The Institute of Statistical Mathematics, Japan)</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>10:20</td>
<td>Prediction Models and Estimation Bias of Forest Above Ground Biomass: the Case of a Atlantic Forest in Espíritu Santo, Brazil</td>
<td>Jaime Felipe Medina Sotomayor, Edgar De Souza Vismara, Hilton Thadeu Zarate De Couto, João Luis Ferreira Batista, Univ Of Sao Paulo</td>
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<tr>
<td>10:37</td>
<td>A proposal to model tied survival observations in the comparison of Cox and Weibull Proportional Hazard Models: an application in medicine</td>
<td>Luis Grajales, Universidad Nacional De Colombia</td>
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<tr>
<td>10:55</td>
<td>Assessing the Impact of Changes in Land-Use on Biodiversity and other Ecosystem Services</td>
<td>Andrew Mead, Dave Skirvin, Carole Wright, Univ of Warwick</td>
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<td>11:12</td>
<td>A paired-tree approach to predict response of douglas-fir plantations to nitrogen fertilization</td>
<td>Robert Harrison, Kim Littke, David Briggs, Eric Turnblom, Univ of Washington; Scott Holub, Weyerhaeuser NR</td>
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<td>11:30</td>
<td>Modeling soil water availability for neotropical forest trees</td>
<td>Fabien Wagner, Bruno Herault, Univ Antilles Guyane, UMR Ecofog; Damien Bonal, INRA Nancy, UMR EEF; Vivien Rossi, Cirad, UMR Ecofog</td>
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<td>11:47</td>
<td>Error propagation through a Bayesian network for biomass estimation in neotropical forests</td>
<td>Quentin Molto, UAG - UMR EcoFog; Vivien Rossi, Lilian Blanc, CIRAD - UMR EcoFog</td>
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Thursday, 9 December 2010: 10:20 – 12:05 (cont.)

**Contributed Oral 9: High Dimensional Data III**
- 10:20
  - Room 9C
  - Statistical challenges in systems biology studies
    - Liliana López Kleine, Univ Nacional de Colombia
  - Improvements on preprocessing of massive microarray datasets
    - Benilton Carvalho, Univ of Cambridge; Robert Scharpf, Johns Hopkins Univ; Matthew Ritchie, The Walter and Eliza Hall Inst of Medical Res; Rafael Irizarry, Johns Hopkins Univ; Simon Tavare, Univ of Cambridge
  - rRF: robust random forest for microarray data sets
    - Erdal Cosgun, Ergun Karaagaoglu, Hacettepe University

**Contributed Oral 9: Times Series Analysis**
- 10:20
  - Room 9D
  - Modified Maximum Likelihood Estimators for Left Censored Bivariate Data Under Non-normality
    - Evrim ORAL, Louisiana State Univ Health Sciences Ctr
  - Comparison of classical and Bayesian approaches for intervention analysis in structural models
    - Glaura Franco, UFMG; Dani Gamerman, UFRJ; Thia go Santos, UFMG
  - A Temporal Bayesian model with discrete response: An Application in Epidemiology
    - Francisco Torres-Avilés, Nelly González, Univ de Santiago de Chile; Elena Carrasco, Univ de Chile
  - Using Cox processes to model the pulse generating mechanism underlying time series of pulsatile hormone data
    - Nichole Carlson, Gary Grunwald, Univ of Colorado Denver; Timothy Johnson, Univ of Michigan

**Invited Session 10: Missing data in clinical trials: The way forward**
- 10:20
  - Garapuvu Auditorium
  - Conceptual Considerations Regarding Choice of endpoints, Hypotheses, and Analyses In Longitudinal Clinical Trials
    - Craig Mallinckrodt (Eli Lilly and Company, US)
  - United States committee on national statistics report 'The prevention and treatment of missing data in clinical trials' - a game changer?
    - James Carpenter (London School of Hygiene and Tropical Medicine, UK)
  - Methods for handling dropout in clinical trials
    - Michael G. Kenward (London School of Hygiene and Tropical Medicine, UK)
  - Discussant
    - Geert Molenberghs (Universiteit Hasselt and Katholieke Universiteit Leuven, Belgium)

**Poster Session 3**
- 12:05
  - Conference Venue Hall
  - Session: Ecological and Environmental Research; Epidemiology and Infectious Diseases
  - A distribution-dependent vegetation survey method
    - Masae Shiyomi, Ibaraki Univ
  - Sensitivity of resistance risk estimates to parameter input distributions
    - Aline Maia, Embrapa Meio Ambiente; Durval Dourado-Neto, Esalq/Univ de São Paulo
  - Discrete choice model in the random selection resource the habitat selection of the owl spotted (Strix occidentalis)
    - Sandra Vergara Cardozo, Natl Univ; Carlos Tadeu Dos Santos Dias, Univ de Sao Paulo USP/ESALQ; Bryan Frederick John Manly, Western EcoSystemsTechnology, Inc.; Luis Alberto Lopez Perez, Natl Univ
Organised by the Brazilian Region and Argentinean Region of the International Biometric Society

T4 Bayesian Analysis to Correct False-negative Errors in Capture-recapture Photo-id Abundance Estimates
Cibele da Silva, Univ de Brasilia-UnB

T5 Analysis on differentials in health self-awareness levels among the adult population of Brazil according to PNAD 2003
José Rodrigo de Moraes, Univ Federal Fluminense

T6 Using wavelets to compare PM10 time series in São Paulo, Brazil
Thelma Safadi, Federal Univ of Lavras

T7 Comparing methods for developing water quality criteria for lakes in Puerto Rico
Raul Macchiavelli, Alexander Martinez, Univ of Puerto Rico; Jonny Demey, Insto de Estudios Avanzados; Gustavo Martinez, David Satomayor, Univ of Puerto Rico

T8 Symmetric Analysis of k pairs of ecological tables
Nelida Winzer, Univ Nacional del Sur; Claudia Marinelli, Univ Nacional del Ctr de la Provincia de Buenos Aires; Rosana Cepeda, Univ Nacional del Ctr de la Prov. de Buenos Aires

T9 The effect of disturbance on the adaptation of a community in a competition model
Agota Drégely-Kiss, Obuda Univ; Levente Hufnagel, „Adaptation to Climate Change” Res Group of the Hungarian Acad of Sciences

T10 Lag structure estimation of particulate air pollution and hospital admissions in amazon region
Cleber do Carmo, Mariane Alves, Univ Federal do Rio de Janeiro; Sandra Hacson, Fundação Oswaldo Cruz

T11 Using the TGLM to model species-area relationship
Marinho Andrade, USP; Katiane Conceição, UFSCar; Werner Ulrich, Nicolaus Copernicus Univ

T12 Analyzing the Sexual Cycle of Anemone Viridis (Forskal, 1775) in the Nw Coast of Spain Through Use of Categorial Additive Regression Models
Vicente Lustres-Pérez, Univ de Santiago de Compostela

T13 Passive participants? Role of biometricians in climate change research
Elias Obudho, Univ of Nairobi; Vincent Oeba, Kenya Forestry Res Inst; Elizabeth Muthiani, Joseph Ndungu, Univ of Nairobi

T14 Evaluation of Attitudes of European Citizens Towards The Environment by Joint Correspondence Analysis
Zerrin AŞAN, Anadolu Univ

T15 Mixed linear model for improving height-diameter relationship modelling in Eucalyptus grandis plantations
Samuel Carvalho, João Batista, Edgar Vismara, Marcos Nicoletti, Tito Castro, Univ of São Paulo

T16 Outliers in rainfall time series: a study of the San Francisco Basin
Alyne Silva, Nerílson Santos, Fernando Pruski, Univ Federal de Viçosa

T17 Relative Contributions of Crown and Phenological Traits to Growth of a Pseudo-Backcross Family (P.elliottii x P. taeda) x P. elliottii) and the Open-Pollinated Families of its Pure Species Progenitors
Patricio Munoz, Dudley Huber, Timothy Martin, Univ of Florida

T18 The problem of the estimation in models of linear calibration involving amazon forest trees
Cássio Pinho dos Reis, Silvia dos Santos de Almeida, Edson Marcos Leal Soares Ramos, Univ Federal do Pará

T19 Multifractal analysis of time series of hotspots in Brazil
Rosilda Souza, Tatjana Stosic, Univ Federal Rural de Pernambuco

T20 Multifractal analysis of temporal series of precipitation in Piracicaba, Brazil
Antonio Samuel Silva, Univ Federal Rural do Pernambuco; Rosilda Benício, Dâmocles Aurélio Silva, Tatjana Stosic, Univ Federal Rural de Pernambuco

T21 A new method for Spatial Proximity Matrix
Gérson Santos, João Louzada, Marcelo Oliveira, Univ Federal de Lavras

T22 A Bayesian Aproach for Nonlinear Models For Longitudinal Data
Evetron Rocha, Roseli Leandro, Univ de São Paulo

T23 Time series analysis applied to average velocity of winds in São João do Cariri, Brazil
Silvio Fernando Júnior, Felipe Gusmão, Cintia Ferreira, Tiago Ferreira, UFRPE

T24 Spatially Varying Autoregressive Processes
Aline Nobre, Fundação Oswaldo Cruz; Bruno Sansó, Univ of California Santa Cruz; Alexandra Schmidt, Federal Univ de Rio de Janeiro

T25 Wind shear coefficients for São João do Cariri, Brazil
Diego Ferreira, Anderson Araújo, Djalma Farias, Milton Melo, Borko Stosic, Tatjana Stosic, UFRPE

T26 General additive models to analyse urban thermal comfort in Curitiba, Brazil
Peter Bröde, Leibniz Res Ctr for Working Environment and Human Factors (IfADo); Eduardo Kruger, Univ Tecnológica Federal do Paraná – UTFPR

T27 Cokriging and multivariable functional spatial prediction
Ramón Giraldo, Univ Nacional de Colombia; Pedro Delicado, Univ Politècnica de Catalunya; Jorge Mateu, Univ Jaume I

T28 Bootstrap hypothesis testing in generalized additive models for comparing curves of treatments in longitudinal studies
María Laura Noreis, Daniel Wunderlin, Maria del Pilar Díaz, Univ Nacional de Córdoba
T29  Ecological Risk Assessment Modelling for offshore oil and gas drilling wells  
Leticia Falcão Veiga, PETROBRAS - Ctr de Pesquisas e Desenvolvimento - CENPES; Fernando Hepp Pulgati, Jandyra M.G. Fachel, UFRGS - Univ Federal do Rio Grande do Sul

T30  Leptospirosis Incidence Study Using Spatial-Longitudinal Models  
Wagner Tassinneri, UFRJ

T31  Regression Models for Analysis of Truncated Count Data  
Nivea da Silva, Unicamp; Leila O. Amorim, Rosemeire L. Fiaccone, UFBA; Vanessa Morato, ISC - UFBA; Márcio Pires, ISC- UFBA

Leilo Amorim, Rosemeire Fiaccone, Lia Moroas, Ana Clara Campos, Ana Marluiza Assis, Univ Federal da Bahia; Nelson Oliveira, Univ Estadual de Feira de Santana

T33  Comparison of Estimation Procedures for Longitudinal Count Data  
Rosemeire Fiaccone, Leila Denise A. F. Amorim, Federal Univ of Bahia; Nivea Silva, State Univ of Campinas; Jackson S. Conceição, Federal Univ of Bahia

T34  Simple dependence analysis  
José Cordeiro, Sch of Med of S. J. Rio Preto

T35  Multiple dependence analysis  
José Cordeiro, Sch of Med of S. J. Rio Preto

T36  Corrected Hellinger distance test for independence in 2x2 frequencies tables  
José Cordeiro, Sch of Med of S. J. Rio Preto

Marilyn Agranovik, Hosp de Clinicas de Porto Alegre; Marcelo Goldani, Suzi Alves Camey, Hosp de Clinicas de Porto Alegre / Univ Federal do Rio Grande do Sul

T38  Elaboration and standardization of a questionnaire for the assessment of knowledge about mouth cancer validated by the Item Response Theory  
Maria Lucia Sundfeld, Marco Aurélio Borella Rodrigues, Univ of São Paulo State; Dalton Francisco Andrade, Federal Univ of Santa Catarina

T39  Evaluation of statistical methods in food intake data analysis  
Eloisa Elena Paschoalnitte, Jose Eduardo Corrente, Univ Estadual Paulista Julio de Mesquita Filho

T40  The contraceptive methods among adolescents attending public schools in Santiago Island, Cape Verde  
Carlos Tavares, Neia Schor, Ivan França Junior, Claudia Barros, Faculdade de Saúde Pública-USP

T41  Efficiency of the Scott-Wild estimator for generalised case-control studies under general misspecification  
Jennifer Wilcock, Alan Lee, Univ of Auckland

T42  Outline of Adult Patients with SIDA Registered in the State of Pará, from January of 2007 to October of 2009  
Myrlene Campos, Edson Marcos Leal Soares Ramos, Univ Federal do Pará

T43  A model of time series of counts to study the association between air pollution and hospital visits for respiratory  
Alyne Silva, Univ Federal de Viçosa; Valdério Reisen, Univ Federal do Espírito Santo

T44  Panel Data Methodology for Assessment Impact of Shares of Sanitation, Education and Health in Reduce  
Number of Deaths of Children in Brazil: 1993-2005  
Elizangela Broetto, Insto Federal do Espírito Santo; Alyne Silva, Univ Federal de Viçosa; Paulo Sérgio Tafner, Univ Cândido Mendes

T45  A prognostic score for prediction of alzheimer dementia: comparison of Cox regression with classification tree analysis and clustering methods  
Birgitt Wiese, Susanne Steinmann, Jana Prokein, Inst for Biometrics

T46  Nutritional profile of children infected with human immunodeficiency virus(HIV) attending a public hospital in the city of BELÉM – PA  
Cássio Pinho dos Reis, Mônica Francisca Morais Lins, Gisele Rocha da Silva, Ana Carla Moreira da Silva, Ana Lúcia Araújo Sató, Silvia dos Santos de Almeida, Univ Federal do Pará

T47  Comparison of methods estimation kriging and conditional simulation applied of vector Leafhopper  
Ana Cristina Garcez, Univ Federal do Oeste do Pará; Edison Ramos, Marcello de Mello, Adrilayne Araújo, Silvia Almeida, Univ Federal do Pará

T48  The basic reproduction number in SI staged progression model: a probabilistic approach  
Juliana Kodaira, José Raimundo Passos, UNESP

T49  Modeling spatial distribution of cancer incidence in Cordoba, Argentina  
María del Pilar Díaz, Univ of Córdoba; José Eduardo Corrente, Insto de Biociencias. Univ do Estado de Sao Paulo (UNESP). Campus de Botucatu.; Alberto Rubén Osella, Epidemiology and Bioestatistics Lab, IRCCS “Saverio de Bellis”; Sonia Edith Mulloz, Laura Rosana Abalay, Univ de Córdoba

T50  Profile of the premature babies that were born in the foundation santa casa de misericórdia do Pará  
Edson Marcos Leal Soares Ramos, Jaqueline Mateus Furtado, Danielle da Silva Pompeu, Silvia dos Santos de Almeida, Adrilayne dos Reis Araújo, Univ Federal do Pará
T51  Kriging and conditional simulation applied on incidence of larvae of the vector aedes aegypti
Ana Cristina Garçêz, Edson Ramos, Marcello de Mello, Adrilayne Araújo, Silvia Almeida, Univ Federal do Pará

T52  A warning about the use of small samples in logistic regression
Rodrigo Coster, Vanessa Leotti Torman, Sueli Alves Caney, UFRGS

T53  Confidence intervals of prevalences in Argentina national health and nutrition survey
Olga Filippini, Hugo Delfino, Natl Univ of Lujan

T54  Analysis of correlated clustered data from families predisposed for Coronary Artery Disease
Srividya Habbagodi, Thrombosis Research Institute

T55  Models in time series forecast for dengue
Carolina Bicalho, Iraziet Charret, Univ Federal de Lavras

T56  Latent Determinants Of Low Birth Weight Neonates In Sunyani (Brong Ahafo Region), Ghana
Atinuке Adebanji, Kwame Nkrumah University of Science and Technology

T57  Can Dietary Patterns Help to Identify Associations Between Diet and Disease?
Ioannis Bakolis, Imperial Coll London

T58  Analysis of accidental falls and level of physical activity in senior citizens
Cecilia Candolo, Univ Federal de São Carlos; Priscila Carneiro Valim-Rogatto, Univ Federal de Lavras

T59  The effect of cost in add frailty in cure model
Vinicius Calusiavara, Vera Tomazella, Joso Fogo, Univ Federal de São Carlos

T60  General latent and lineal mixed models for obesity in Córdoba Argentina
Laura R Aballay, Biostatistics Unit, Sch of Nutrition, Faculty of Medical Sciences, Univ of Córdoba, Córdob; Alberto R. Osella, Lab of Epidemiology and Biostatistics,IRCCS Saverio de Bellis, Castellana Grotte, Bari, Italy.; Maria del Pilar Diaz, 1Biostatistics Unit, Sch of Nutrition, Faculty of Medical Sciences, Univ of Córdoba, Córdob

T61  Analysis of individuals with tuberculosis diagnosed and confirmed in the urban area of the municipal district of Belem
Edson Marcos Leal Soares Ramos, Eder Martins da Rocha, Silvia dos Santos de Almeida, Adrilayne dos Reis Araújo, Anna Alice Garcia Caldas Nunes, Pâmela Tamiris Cadalsa Serra de Souza, Univ Federal do Pará

T62  Evaluation of association between adherence to HAART and HIV-positive patients’ clinical evolution
Dayse Campos, Marília Carvalho, Luiz Antonio Camacho, Fundação Oswaldo Cruz

T63  Use of non-homogeneous Poisson processes to analyze pollution data: a Bayesian approach
Lorena Vicini, UNICAMP

Thursday, 9 December 2010: 13:35 – 15:20

13:35  Contributed Oral 10: Cancer Research
Chair: Timo Hakulinen (Finnish Cancer Registry, Finland)

13:35  Biostatistical strategies for the identification of “Single Nucleotide Polymorphisms” as predictive markers of response to radiochemotherapy in rectal cancer
Caroline Bascoul-Mollevi, CRLC Val d’Aurelle; Bruno Pereira, CHU Clermont-Ferrand; Evelyne Crapez, Eric Assenat, CRLC Val d’Aurelle; Andrew Kramar, Ctr Oscar Lambret

13:52  Comparing the cumulative false-positive risk of screening mammography programs using a discrete time survival model allowing for non-ignorable drop-out
Rebecca Hubbard, Diana Miglioretti, Group Health Res Inst

14:10  A Hidden Markov Model for Lung Cancer: Estimation of the ‘Force of Exposure’ and of Time to Diagnosis
Marc Chadeau-Hyam, Imperial Coll London; Pascale Tubert-Bitter, Chantal Guillehneuc-Jouyaux, INSERM, U1018, Biostatistic Team; Sandro Galea, Mailman Sch of Public Health, Columbia Univ; Paolo Vineis, Imperial Coll London

14:27  Nutrient-based dietary patterns and the risk of cancer
Valeria Edefonti, Univ degli Studi di Milano; Francesca Bravi, Univ degli Studi di Milano; Istituto di Ricerche Farmacologiche; Monica Ferraroni, Univ degli Studi di Milano; Adriano Decarli, Univ degli Studi di Milano; Istituto Nazionale dei Tumori, Milano

14:45  The Performance of Methods for Correcting Measurement Error in occupational cohort studies
Allodji Rodrigue, Institute For Radiological Protection And Nuclear Safety (Inrs)
### Thursday, 9 December 2010: 13:35 – 15:20 (cont.)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Presentations</th>
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</thead>
</table>
| 13:35 | **Contributed Oral 10: Categorical Data**  | Brigitte Cheuvart (GSK Biologicals, Belgium) | - Statistical methods for analysing ordinal categorical data arising from the clinical trial of drugs from the pharmaceutical industry  
Nazneen Shariff, Edinburgh Univ, Scotland, UK  
- Reliable confidence intervals for the difference of independent binomial proportions  
Stephan Morgenthaler, EPFL  
- Adaptive designs for phase II studies in oncology  
Meinhard Kieser, Stefan Englert, Inst of Medical Biometry and Informatics, Univ of Heidelberg  
- Sample Size Determination for Two Independent Populations when the Binomial Proportions are Small  
Susan Halabi, Bercedis Peterson, Duke Univ  
- Stochastic Curtailed Two-stage Designs with One or Two Endpoints  
Cornelia Ursula Kunz, Meinhard Kieser, Univ of Heidelberg  |
| 13:35 | **Contributed Oral 10: Fisheries Research** | Afranio Vieira (Universidade de Brasilia, Brazil) | - Statistical analysis of the biological effects of man-induced seabed disturbance  
Beth Norris, Martin Ridout, Univ of Kent; Jon Barry, Cefas; Byron Morgan, Univ of Kent  
- Intensity-dependent marking of Cox processes with pairwise interaction  
Kasper Berthelsen, Aalborg Univ  
- Bayesian spatial modelling of coastal fisheries survey data  
Raymond Webster, Intl Pacific Halibut Commission  
- Modelling marine biodiversity with error in covariates  
Hideyasu Shimadzu, Geoscience Australia; Scott Foster, Ross Darnell, CSIRO Mathematics, Informatics and Statistics  
- Estimating patterns of co-occurrence in species abundances using point counts and foraging guilds  
Robert Dorazio, Univ of Florida; Edward Connor, San Francisco State Univ  |
| 13:35 | **Contributed Oral 10: Medical Research**   | Nélida Winzer (Universidad Nacional del Sur, Argentina) | - Drip-Feed Education: Statistics Notes in the British Medical Journal  
John Martin Bland, Univ of York  
- Studentized Modified Maximum Contrast Method for Unequal Sample Sizes in Pharmacogenomics Studies  
Kengo Nagashima, Josai Univ; Yasunori Sato, Harvard Sch of Public Health; Chikuma Hamada, Tokyo Univ of Science  
- Comparison of artificial neural network and logistic regression techniques for prediction of malignant breast lesions from MRI features  
Christine McLaren, Wen-Pin Chen, Ke Nie, Min-ying Su, Univ of California, Irvine  
- Mixed treatment comparisons: combining direct and indirect evidences to compare statin doses  
Patricia Ziegelmann, Federal Univ of Rio Grande do Sul  |
Adriana Dornelles, Janet Rice, Larry Webber, Diego Rose, Tulane Univ  
- Performance evaluation for prediction models with three outcomes: A discrimination index applied for the prediction of pregnancy location  
Ben Van Calster, Katholieke Univ Leuven; Yvonne Vergouwe, Erasmus MC; Vanya Van Belle, Katholieke Univ Leuven; Ewout Steyerberg, Erasmus MC; Tom Bourne, Imperial Coll London; Dirk Timmerman, Univ Hosp Leuven; Sabine Van Huffel, Katholieke Univ Leuven  |

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### Thursday, 9 December 2010: 13:35 – 15:20 (cont.)

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<th>Time</th>
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<tbody>
<tr>
<td>13:35</td>
<td>Modeling heterogeneous variances in linear, generalized linear and non linear mixed models with applications to genetics and biostatistics</td>
<td></td>
<td>Jean-Louis Foulley</td>
</tr>
<tr>
<td>14:05</td>
<td>Analyzing spatial heterogeneity with geo-additive regression models</td>
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<tr>
<td>14:35</td>
<td>Utilizing biological information to model heterogeneous variability and co-expression in microarray experiments</td>
<td></td>
<td>Guilherme J.M. Rosa</td>
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<tr>
<td>15:05</td>
<td>Discussant</td>
<td></td>
<td>Juan P. Steibel</td>
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<tr>
<td>15:20</td>
<td>Coffee Break</td>
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### Thursday, 9 December 2010: 15:40 – 17:25

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<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>15:40</td>
<td>Contributed Oral 11: Biosurveillance and Biosecurity</td>
<td>Room 9C</td>
<td>Renato M. Assuncao</td>
</tr>
<tr>
<td>15:40</td>
<td>Iris Recognition Using Singular Value Decomposition</td>
<td></td>
<td>Prachi Joshi, Vivek Kshirsagar</td>
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<tr>
<td>15:57</td>
<td>The application of biometric information to authorization of vehicle control</td>
<td></td>
<td>Petr Barton, Marek Kalika</td>
</tr>
<tr>
<td>16:15</td>
<td>Statistical models in biological dosimetry</td>
<td></td>
<td>Pedro Puig</td>
</tr>
<tr>
<td>16:32</td>
<td>Dynamic Spatial Bayesian Models for Radioactivity Deposition</td>
<td></td>
<td>Alvaro Faria</td>
</tr>
<tr>
<td>16:50</td>
<td>Statistical applications to the eradication of introduced pests</td>
<td></td>
<td>David Baird, VSN Int'l</td>
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<tr>
<th>Time</th>
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<tr>
<td>15:40</td>
<td>Contributed Oral 11: Ecological Research</td>
<td>Room 9D</td>
<td>Byron Morgan</td>
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<tr>
<td>15:40</td>
<td>Interpretive comparison of functional diversity indices</td>
<td></td>
<td>Laura Pla, Fernando Casanoves</td>
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<tr>
<td>15:57</td>
<td>Biometric study of shea tree (vitellaria paradoxa gaertn.) In nigerian grove ecology</td>
<td></td>
<td>Maxwell Okoye</td>
</tr>
<tr>
<td>16:15</td>
<td>Comparison of multiple imputation methods applied to the imputation of data used to discriminate species of sand flies (diptera: psychodidae, phlebotominae): Lutzomyia Intermedia and L. Neivai</td>
<td></td>
<td>Rafael Eduardo Borges Peña, Daniel Eduardo Paredes Moreno</td>
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<tr>
<td>16:32</td>
<td>Modelling occupancy from detection data collected along transects</td>
<td></td>
<td>Gurutzeta Guillera-Arroita, Martin S. Ridout, Byron J.T. Morgan</td>
</tr>
<tr>
<td>16:50</td>
<td>Inferring evolutionary birth and death rates under different species sampling schemes</td>
<td></td>
<td>Tom Britton, Stockholm Univ</td>
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<tr>
<td>17:07</td>
<td>Distributional Regression Trees: A method for studying spatial-temporal pattern in length-frequency data</td>
<td></td>
<td>Mihoko Minami, Cleridy Lennert-Cody</td>
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</tbody>
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*Organised by the Brazilian Region and Argentinean Region of the International Biometric Society*
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<tr>
<td>15:40</td>
<td>Contributed Oral 11: Epidemiological Methods III</td>
<td>Reitoria Auditorium</td>
<td>Chair: Rebecca Hubbard (Group Health Research Institute, US)</td>
</tr>
<tr>
<td>15:40</td>
<td>Parsimonious evaluation of interactions in epidemiology studies</td>
<td></td>
<td>Jaya Satagopan, Memorial Sloan-Kettering Cancer Ctr; Robert Elston, Case Western Reserve Univ Sch of Med</td>
</tr>
<tr>
<td>15:57</td>
<td>A multi-phase design strategy for dealing with participation bias</td>
<td></td>
<td>Sebastien Haneuse, Group Health Res Inst; Jinbo Chen, Univ of Pennsylvania</td>
</tr>
<tr>
<td>16:15</td>
<td>Multivariate Modeling of Longitudinal Observations with Excess Zeros and Measurement Error</td>
<td></td>
<td>Victor Kipnis, Natl Cancer Inst, USA; Raymond Carroll, Texas A&amp;M Univ; Laurence Freedman, Gernter Inst for Epidemiology and Health Policy Res; Douglas Midthune, Natl Cancer Inst, USA</td>
</tr>
<tr>
<td>16:32</td>
<td>The impact of multivariate measurement error in epidemiologic studies</td>
<td></td>
<td>Anne Thiebaut, Laurence Watier, INSERM, U657; Douglas Midthune, Natl Cancer Inst, Div of Cancer Prevention; Jacques Benichou, INSERM, U657; Arthur Schatzkin, Natl Cancer Inst, Div of Cancer Epidemiology and Genetics; Victor Kipnis, Natl Cancer Inst, Div of Cancer Prevention</td>
</tr>
<tr>
<td>16:50</td>
<td>A nonlinear measurement error model to estimate usual and energy intake for episodically consumed foods</td>
<td></td>
<td>Adriana Perez, The Univ of Texas Health Science Ctr at Houston; Saijuan Zhang, Texas A&amp;M University; Victor Kipnis, National Cancer Institute, US; Laurence S. Freedman, Gertner Institute for Epidemiology &amp; Health Policy Research, Israel; Raymond J. Carroll, Texas A&amp;M Univ</td>
</tr>
<tr>
<td>17:07</td>
<td>Individual patient data meta-analysis with measurement error and missing data: a unified approach through multiple imputation</td>
<td></td>
<td>James Carpenter, Joanna Dobson, Michael Kenward, London Sch of Hygiene &amp; Tropical Med; Harvey Goldstein, Graduate Sch of Education, Univ of Bristol</td>
</tr>
<tr>
<td>15:40</td>
<td>Contributed Oral 11: Survival Data IV</td>
<td>Room 9A-B</td>
<td>Chair: Hans van Houwelingen (Leiden University, The Netherlands)</td>
</tr>
<tr>
<td>15:40</td>
<td>A new method for estimating the average number of recurring interdependent events in survival data analysis</td>
<td></td>
<td>Sudipta Bhattacharya, Frank Fleischer, Erich Bluhrmi, Boehringer Ingelheim Pharma GmbH &amp; Co KG</td>
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<tr>
<td>15:57</td>
<td>The estimation of the force of infection for HCV among Injecting Drug Users using Interval Censored Data</td>
<td></td>
<td>Amparo Castro Sánchez, Ziv Shkedy, Niel Hens, Marc Aerts, Hasselt Univ; Ronald Geskus, Maria Prins, Public Health Service of Amsterdam; Lucas Wiessing, European Monitoring Ctr for Drug and Drug Addiction; Mirjam Kretzchmar, Univ Medical Ctr Utrecht</td>
</tr>
<tr>
<td>16:15</td>
<td>Risk-Adjusted Monitoring of Time to Event</td>
<td></td>
<td>Axel Gandy, Imperial Coll London; Jan Terje Kvaleøy, Univ of Stavanger; Alex Bottle, Fanyin Zhou, Imperial Coll London</td>
</tr>
<tr>
<td>16:32</td>
<td>Estimating and modelling cure within the framework of flexible parametric survival models</td>
<td></td>
<td>Therese Andersson, Sandra Eleoranta, Paul Dickman, Karolinska Instt; Paul Lambert, Univ of Leicester</td>
</tr>
<tr>
<td>16:50</td>
<td>Partitioning of excess mortality associated with a diagnosis of Hodgkin’s Lymphoma using flexible parametric survival models</td>
<td></td>
<td>Sandra Eleoranta, Karolinska Instt; Paul Lambert, Univ of Leicester; Magnus Björkholm, Karolinska Univtssjukhuset, Solna; Therese Andersson, Paul Dickman, Karolinska Instt</td>
</tr>
<tr>
<td>17:07</td>
<td>Modeling bivariate survival data based on copulas: an application on diabetic retinopathy data</td>
<td></td>
<td>Francisco Louzada-Neto, Adriano Suzuki, Univ Federal de São Carlos; Vicente Cancho, Univ de São Paulo</td>
</tr>
<tr>
<td>15:40</td>
<td>Invited Session 12: Statistical challenges and advancements in eQTL mapping studies</td>
<td>Garapuvu Auditorium</td>
<td>Chair: Yuehua Cui (MI)</td>
</tr>
<tr>
<td>15:40</td>
<td>Design of microarray experiments for genetical genomics studies with outbred populations</td>
<td></td>
<td>Guilherme J.M. Rosa (University of Wisconsin, US)</td>
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<tr>
<td>16:05</td>
<td>Hierarchical modeling of clinical and expression quantitative trait loci</td>
<td></td>
<td>Mikko J. Sillanpää (University of Hensinki, Finland)</td>
</tr>
<tr>
<td>16:30</td>
<td>Linear mixed model analysis to identify cis-acting eQTL and candidate genes in crosses between breeds of livestock</td>
<td></td>
<td>Juan P. Steibel (Michigan State University, US)</td>
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<tr>
<td>16:55</td>
<td>Single Feature Polymorphism Detection in Mapping Population and their Application in eQTL Analysis</td>
<td></td>
<td>Xinping Cui (University of California Riverside, US)</td>
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Thursday, 9 December 2010: 20:00 – 01:00

20:00 **Conference Party**: Praia Mole Eco Village (located between Mole Beach and Conceição Lagoon)
Bus transportation will be provided from official hotels to conference party
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<tr>
<td>08:30</td>
<td>Contributed Oral 12: Epidemiological Methods IV</td>
<td>James Carpenter (London School of Hygiene &amp; Tropical Medicine, UK)</td>
<td>Ana Carolina Mafra, Luciana Bertoldi Nucci, Celso Stephan, Ricardo Cordeiro, State Univ of Campinas - UNICAMP; Liciana Vaz de Arruda Silveira, São Paulo State Univ - UNESP</td>
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<tr>
<td>08:47</td>
<td>Bayesian analysis of the log-binomial model: a comparison with the frequentist approach through simulation</td>
<td>Vanessa Torman, Suzi Alves Camey, UFRGS</td>
<td></td>
</tr>
<tr>
<td>09:05</td>
<td>Use of mixture models with spatial correlation in mapping the risk of lung cancer mortality in Southern Brazil</td>
<td>Márcia Barbian, UFMG</td>
<td>Aloise Pereira de Souza, CEBMEG/UNICAMP; Lia Zangirolani, Celso Stephan, Ricardo Cordeiro, Univ Estadual de Campinas</td>
</tr>
<tr>
<td>08:30</td>
<td>Contributed Oral 12: Genetics in Agriculture</td>
<td>Jean-Louis Fouillet (INRA Jouy-en-Josas, France)</td>
<td>Prem Narain, INSA Honorary Scientist; Marcos Malosetti, Martin Boer, Biometris, Wageningen UR; Ana Casas, CSIC Aula Dei Experimental Station; Jose Luis Molina Cano, Ctr UdL-IRTA; Fred van Eeuwijk, Biometris, Wageningen UR</td>
</tr>
<tr>
<td>08:47</td>
<td>Modelling genetic dependencies in qtl mapping studies by means of mixed models</td>
<td>Marcos Malosetti, Martin Boer, Biometris, Wageningen UR; Ana Casas, CSIC Aula Dei Experimental Station; Jose Luis Molina Cano, Ctr UdL-IRTA; Fred van Eeuwijk, Biometris, Wageningen UR</td>
<td>Maria Marta Pastina, ESALQ/USP; Marcelo Malosetti, Biometris/ WUR; Rodrigo Gazaffi, Marcelo Mollinari, Gabriel Rodrigues Alves Margarido, ESALQ/USP; Karine Miranda Oliveira, CTC; Anete Pereira de Souza, CEBMEG/UNICAMP; Fred van Eeuwijk, Biometris/ WUR; Antonio Augusto Franco Garcia, ESALQ/USP</td>
</tr>
<tr>
<td>09:05</td>
<td>Multi-Harvest-Location QTL Analysis for Sugarcane Using Mixed Models</td>
<td>Maria Marta Pastina, ESALQ/USP; Marcelo Malosetti, Biometris/ WUR; Rodrigo Gazaffi, Marcelo Mollinari, Gabriel Rodrigues Alves Margarido, ESALQ/USP; Karine Miranda Oliveira, CTC; Anete Pereira de Souza, CEBMEG/UNICAMP; Fred van Eeuwijk, Biometris/ WUR; Antonio Augusto Franco Garcia, ESALQ/USP</td>
<td>Maria Marta Pastina, ESALQ/USP; Marcelo Malosetti, Biometris/ WUR; Rodrigo Gazaffi, Marcelo Mollinari, Gabriel Rodrigues Alves Margarido, ESALQ/USP; Karine Miranda Oliveira, CTC; Anete Pereira de Souza, CEBMEG/UNICAMP; Fred van Eeuwijk, Biometris/ WUR; Antonio Augusto Franco Garcia, ESALQ/USP</td>
</tr>
<tr>
<td>09:40</td>
<td>Simulating realistic GxE and QTLxG in pepper using a crop growth model with physiological parameters without GxE</td>
<td>Paulo C Rodrigues, Ep Heuvelink, Marco Bink, Leo Marcelis, Fred van Eeuwijk, Wageningen UR</td>
<td>Sandra Hebbagodi, Rothamsted Research Institute</td>
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| 09:57    | Graphical validation of unidimensionality | Sandra Hebbagodi, Rothamsted Research Institute | Mounir Mesbah, Univ Pierre et Marie Curie, Paris 6
### Friday, 10 December 2010: 08:30 – 10:15 (cont.)

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<td>08:30</td>
<td>Contributed Oral 12: Infectious Diseases</td>
<td>Tje Lin Chung, Inst for Biostatistics and Mathematical Modelling</td>
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<tr>
<td>08:30</td>
<td>Synergy effects of directly acting antiviral therapies for hepatitis C in combination with standard treatment</td>
<td>Maria O. Martins, Insto de Higiene e Medicina Tropical - Univ Nova de Lisboa</td>
</tr>
<tr>
<td>08:47</td>
<td>Poisson mixture regression model to analyse hiv/aids length of stay</td>
<td>Sara S. Dias, Faculdade de Ciências Médicas - Univ Nova de Lisboa; Valeska Andreozzi, Ctr de Estatística e Aplicações da Univ de Lisboa; Maria O. Martins, Insto de Higiene e Medicina Tropical - Univ Nova de Lisboa</td>
</tr>
<tr>
<td>09:05</td>
<td>Impact of Tuberculosis on Mortality among HIV Infected Patients Receiving Antiretroviral Therapy: A Comparison of Propensity Score Methods</td>
<td>Rong Chu, McMaster Univ; Edward Mills, St Paul's Hosp, British Columbia Ctr for Excellence in HIV/AIDS; Joseph Beyene, McMaster Univ; Christine Nabiryo, The AIDS Support Organization (TASO); Lehana Thabane, McMaster Univ</td>
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<tr>
<td>09:22</td>
<td>Methodological challenges for estimating when to start antiretroviral therapy in HIV+ subjects</td>
<td>Liliana Orellana, Univ de Buenos Aires; Andrea Rotnitzky, Univ Torcuato Di Tella - Harvard Univ</td>
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<tr>
<td>09:40</td>
<td>Statistical methods for dealing with missing data due to informative censoring and with time-dependent confounding, when comparing the effect of three nutritional supplementation programs on the well-being of HIV-infected infants</td>
<td>Francesca Little, Univ of Cape Town</td>
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<tr>
<td>09:57</td>
<td>Modeling of Viral Kinetics in Patients Chronically Infected with Hepatitis B and D</td>
<td>Natalie Filmann, Goethe Univ; Heiner Wedemeyer, Ingmar Mederacke, Hannover Medical Sch; Eva Herrmann, Goethe Univ</td>
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<tr>
<td>08:30</td>
<td>Invited Session 13: Multivariable model-building with continuous variables – a comparison of flexible regression approaches</td>
<td>Elia Biganzoli (Italy) and Willi Sauerbrei (Institute of Medical Biometry and Informatics, Freiburg, Germany)</td>
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<tr>
<td>08:30</td>
<td>Comparison of alternative strategies for building a flexible regression-spline based multivariable survival model</td>
<td>Michal Abrahamowicz (McGill University, Canada)</td>
</tr>
<tr>
<td>09:00</td>
<td>Model building with P-splines and fractional polynomials</td>
<td>Paul Eilers (Erasmus University Rotterdam, The Netherlands)</td>
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<tr>
<td>09:30</td>
<td>Comparison of fractional polynomial and spline approaches in simulated and real data based on new measures</td>
<td>Harald Binder (University Medical Centre, Freiburg, Germany)</td>
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<tr>
<td>10:00</td>
<td>Discussant</td>
<td>Christel Faes (Hasselt University, Belgium)</td>
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### Friday, 10 December 2010: 10:45 – 12:30

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<th>Speaker(s)</th>
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<tr>
<td>10:45</td>
<td>Contributed Oral 13: Disease Epidemiology</td>
<td>Patricia Ziegelmann (Federal Univ of Rio Grande do Sul, Brazil)</td>
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<tr>
<td>10:45</td>
<td>Modeling Plague. Nonantola, Italy, 1630: A preliminary analysis</td>
<td>Marco Bonetti, Guido Alfani, Rodolfo Baggio, Bocconi Univ; Pasquale Cirillo, Univ of Bern; Rebecca Graziani, Bocconi Univ</td>
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<tr>
<td>11:02</td>
<td>The effect of sampling interval on the estimation of transmission dynamics of streptococcus pneumoniae</td>
<td>Panu Erästö, Nati institute for health and welfare; Fabian Hoti, Aalto Univ Sch of Science and Technology; Kari Auranen, Nati institute for health and welfare</td>
</tr>
<tr>
<td>11:20</td>
<td>Statistical issues in studying the relative importance of Body Mass Index, Waist Circumference, Waist Hip Ratio and Waist Stature Ratio to predict type 2 diabetes</td>
<td>Narasimha Bhamidipati, Natl Inst of Epidemiology</td>
</tr>
<tr>
<td>11:37</td>
<td>Estimating Vaccination Coverage for the Trivalent Measles-Mumps-Rubella Vaccine</td>
<td>Nele Goeyvaerts, Niel Hens, Hasselt Univ; Heidi Theeten, Univ of Antwerp; Marc Aerts, Hasselt Univ; Pierre Van Damme, Philippe Beutels, Univ of Antwerp</td>
</tr>
<tr>
<td>12:12</td>
<td>Pregnancy-associated breast cancer (PABC) and mortality: the influence of proximity to delivery and time-since-diagnosis</td>
<td>Anna Johansson, Therese Andersson, Karolinska Instt; Sven Cnattingius, Karolinska Instt at Karolinska Univ Hosp Solna; Chung-Cheng Hsieh, Univ of Massachusetts Medical Sch; Mats Lambe, Karolinska Instt</td>
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<tr>
<td>Time</td>
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<td>Speaker(s)</td>
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<tr>
<td>10:45</td>
<td>Contributed Oral 13: Genetics</td>
<td>Birgitt Wiese, Elena Bru, María Silvina Juarez Tomás, Carolina Espeche, Natalia Cecilia Maldonado, Esteban Vera Pingitore, María Elena Fatima Nader-Macías</td>
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<tr>
<td>10:45</td>
<td>Contributed Oral 13: Modelling</td>
<td>Florin Vaida, Kenneth K. Lopiano, Linda J. Young, Carol A. Gotway, David Afshartous, Michael Wolf</td>
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<tr>
<td>10:45</td>
<td>Contributed Oral 13: Multiple Testing</td>
<td>Ekkehard Glimm, David Ashfartous, Ting-Li Su, Hans-Helge Muller, Salvador Gezan</td>
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<tr>
<td>10:45</td>
<td>Invited Session 14: Modern developments in the design and analysis of plant and tree breeding variety trials</td>
<td>Emilyn Williams, Hans-Peter Piepho, Robin Thompson, Salvador Gezan, Mark Cooper</td>
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### Friday, 10 December 2010: 10:45 – 12:30 (cont.)

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<tr>
<td>10:45</td>
<td>Invited Session 15</td>
<td>New directions in interval censored time to event data</td>
<td>Somnath Datta (KY)</td>
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<tr>
<td>10:45</td>
<td>Reitoria Auditorium</td>
<td>Invited Session 15: New directions in interval censored time to event data</td>
<td>Somnath Datta (KY)</td>
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<tr>
<td>10:45</td>
<td></td>
<td>Estimating functions for the analysis of clustered current status data</td>
<td>Richard Cook (University of Waterloo, Canada)</td>
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<td>11:15</td>
<td></td>
<td>Subtyping of tumors at diagnosis: application of current status data methods</td>
<td>Debashis Ghosh (Penn State University, US)</td>
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<tr>
<td>11:45</td>
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<td>Estimation in illness-death models with all transitions interval-censored</td>
<td>Niels Keiding (University of Copenhagen, Denmark)</td>
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<td>12:15</td>
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<td>Discussant</td>
<td>Hans van Houwelingen (Leiden University, The Netherlands)</td>
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### Friday, 10 December 2010: 12:30 – 14:15

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<td>12:30</td>
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<td>Invited Session 4 (Conference Venue Hall)</td>
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<td>12:30</td>
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<td>Session: General applications</td>
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<td>Stated Choice Experiments that Incorporate Position Effects</td>
<td>Stephen Bush, Univ of Technology, Sydney</td>
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<td>On the superposition of overlapping Poisson processes and nonparametric estimation of their intensity function</td>
<td>Gustavo Gilardoni, Univ de Brasília; Enrico Colosimo, Univ Federal de Minas Gerais</td>
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<td>T67</td>
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<td>Random time varying model coefficient estimation through radial basis functions</td>
<td>Juan Sosa, Luis Díaz, Natl Univ of Colombia</td>
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<td>T68</td>
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<td>Risk Trajectories of Locomotor Disability of the Aging Indian</td>
<td>Dilip Nath, Nazrul Islam, Gauhati Univ</td>
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<td>Reference Intervals: Tolerance Estimation versus Quantile Estimation</td>
<td>Karl-Ernst Biebler, Ernst-Moritz-Arndt-Univ</td>
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<td>T70</td>
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<td>Computation of the noncentral gamma distribution, its inverse and noncentrality parameter</td>
<td>Izabela Oliveira, Daniel Furtado Ferreira, Federal Univ of Lavras</td>
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<td>T71</td>
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<td>The effects of lifestyle modification on metabolic syndrome: a multivariate meta-analysis using mets-simulator</td>
<td>Kazue Yamaoka, Natl Inst of Public Health; Makota Zushi, Tsumura &amp; Co, Japan; Eisu Hida, Natl Inst of Public Health; Toshio Tango, Ctr for Medical Statistics</td>
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<td>RUNNER - A New R Interpreter</td>
<td>Julio A. Di Rienzo, Univ Nacional de Córdoba</td>
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<td>Analyzing the time to complete the undergraduate Statistics course at the Federal University of Parana, Brazil</td>
<td>Nelva Sganzerla, Suely Giolo, Federal Univ of Parana</td>
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<td>T74</td>
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<td>The latent class model to evaluate genotype and phenotype clinical predictors of oral potentially malignant disorders and oral cancer</td>
<td>Mabel Brunotto, Univ Nacional de Córdoba</td>
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<td>T75</td>
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<td>A modified approximate cusum chart for monitoring time-series of counts</td>
<td>Giuseppe Rossi, Simone Del Sarto, Natl Res Council - Inst of Clinical Physiology - Unit of Epidemiology and Biostatistics; Marco Marchi, Dept of Statistics, Univ of Florence</td>
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<td>T76</td>
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<td>The Beta Exponentiated Weibull Distribution</td>
<td>Gauss Cordeiro, Univ Federal Rural de Pernambuco; Antonio Gomes, Cibele da Silva, Univ de Brasilia; Edwin Ortega, Escola Superior de Agricultura Luiz de Queiroz - Univ de São Paulo</td>
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<td>T77</td>
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<td>Method of Fieller versus Bootstrap to estimate the variance of LD50 in Dose-Response Models</td>
<td>Silvia Maria de Freitas, Federal University of Ceará</td>
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<td>T78</td>
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<td>Application of the framework for evaluating complex interventions in health care to care pathways</td>
<td>Massimiliano Panella, Lucio Palin, Amedeo Avogadro Univ; Sara Marchisi, Health Authority of Vercelli</td>
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<td>T79</td>
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<td>Extent and Influence of Recreational Drug Use on Men and Women Aged 15 Years and Older in South Africa</td>
<td>Peter Njuiho, Human Sciences Res Council</td>
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<td>T80</td>
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<td>Impact of the REUNI governamental program on rental prices in Alfenas, Brazil</td>
<td>Eric Ferreira, Diego Mequeline, Wander Cipriano, Univ Federal de Alfenas</td>
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<td>T81</td>
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<td>Leverage analysis for linear mixed models</td>
<td>Juvêncio Nobre, Federal Univ of Ceará; Julio Singer, Univ of São Paulo</td>
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Sheila Neves, Marina Paes, UFRJ |
| T83 | Consumption frequency of chocolate products by young people in Alfenas, Brazil  
Eric Ferreira, Rafael Bastos, Marcela Rocha, Nathalia Santos, Vivian Miranda, Univ Federal de Alfenas |
| T84 | Evaluating the occurrence of cycles in quality control charts for pasteurized milk variables  
Eric Ferreira, Rafael Bastos, Univ Federal de Alfenas |
| T85 | Time series with ordinal data  
Maria Silvia Moura, UFSCar |
| T86 | Predicting match outcomes in the english premiership league: what will be the final rank?  
Adriano Suzuki, Francisco Louzada-Neto, Univ Federal de São Carlos |
| T87 | Monitoring of patients reported with aids at the hospital universitário joão de barros barreto via logistic regression  
Adrilayne dos Reis Araújo, Shirlaine Moraes e Souza, Univ Federal do Pará |
| T88 | Survival Analysis of Patients with Diabetes hospitalized at the Hospital Universitário João de Barros Barreto  
Adrilayne dos Reis Araújo, Glizbene Marques da Silva, Univ Federal do Pará |
| T89 | Selecting model using the beta modified Weibull distribution in survival analysis  
Giovana Silva, Valdemiro Vigas, Federal Univ of Bahia |
| T90 | Method for computing the noncentrality parameter of the sample multiple correlation coefficient distribution  
Daniel Ferreira, Univ Federal de Lavras |
| T91 | Linear Mixed Models in Actuary: Diagnostic Methods and Application  
Luis Gustavo Pinho, Juvêncio Nobre, FUC - Federal Univ of Ceará |
| T92 | Statistical methods to assess the self-compiled surveillance tool for communication development used in a Primary Health Care Hospital  
Legesse Kassa Debusho, Univ of Pretoria |
| T93 | Factor Structure of the Multi-item Scale to Evaluate the Application of people management in Small and Medium Enterprises  
Marcelo Tavares, Claudine Carvalho, Évora Naves, Univ Federal de Uberlândia |
| T94 | Prediction of cutaneous and ocular lesions in type 2 diabetic patients  
Flávia Cristina Martins Queiroz Mariano, Renato Ribeiro de Lima, Paulo Borges Rodrigues, Renata Ribeiro Alvarenga, Germano Augusto Jerônimo do Nascimento, Federal Univ of Lavras |
| T95 | Principal components analysis in meta-analysis to obtain prediction equations of energetic values of poultry feedstuffs  
Mário Vivanco, Univ Federal de Lavras |
| T96 | Factors Associated with Mental Disorders in Adolescents Pregnant  
Edson Marcos Leal Soares Ramos, Helen Tatiana Saldanha da Silva Ribeiro, Silvia dos Santos de Almeida, Adri Payne dos Reis Araújo, Priscila Alcantara Figueira, José Messias Fonseca da Silva, Univ Federal do Pará |
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| T98 | Latent Variable Models to assess Relationship between Communication and Information Technology and Socio-economic Development  
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| T99 | Bivariate variable length memory chains applied to linguistics  
Denise Duarte, UFMG |
| T100 | Recommendations of the values of standardized decision interval Tabular Cusum Chart  
Rodrigo Lara, José Ivo Ribeiro Júnior, Univ Federal de Viçosa |
| T101 | Assessment through control chart of collection preventive exams of cervical cancer, held in para june 2006 to march 2009  
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Daniele Rodrigues, Carla Vivaçaqua, Antônio Carneiro, Diana Oliveira, Elisângela Oliveira, UFV |
| T103 | Comparison of non-parametric estimators for survival functions with interval censoring  
Andressa Oliveira, Mário Vivanco, Univ Federal de Lavras |
| T104 | Comparison between the estimator of the population total with replacement in two-stage sampling and the Regression Estimator: Application to real data  
Mayo Polo, Mauricio Rodríguez, Universidad Nacional de Colombia |
T105 Monitoring of Recurring Event for Demographic and Actuarial Information  
Julian Sánchez, Univ Nacional de Colombia

T106 Patients’ satisfaction with health care services in Mexico City  
Rebeca Aguirre-Hernandez, Univ Nacional Autonoma de Mexico

T107 Accounting to scaling differences in a TV sensory panel  
Isabel Amorim, Technical Univ of Denmark and Ctr Universitário do Sul de Minas; Per Brockhoff, Technical Univ of Denmark

T108 Statistical study from the diet profile of the Federal University of Pará students  
Vanessa Mayara Pamploa, Edison Ramos, Gesiane Leao, Priscila Figueira, Monique Gomes, Universidade Federal do Para

T109 Statistical measurement of the predictive capacity of classification models in medical data  
Paulo Ferreira da Silva, Francisco Louzada Neto, Univ Federal de São Carlos; Gleici Perdoná, Elisabeth Viera, Univ de São Paulo

T110 A comparative study between conjoint analysis and the constant sum approach to estimate relative importance of factors  
Adriana Dias, Univ Federal de Lavras; Carlos Henrique Osório Silva, Fabiano Fonseca e Silva, Luiz Alexandre Peternelli, Valéria Paula Rodrigues Minim, Univ Federal de Viçosa

T111 Column effects model for HIV/AIDS data  
Serpi Aktaş, Hande Konşuk, Hacettepe Univ

T112 Multivariate normality of data described by linear model  
Zofia Hanusz, Joanna Tarasinska, Univ of Life Sciences

T113 Factor Struture of the CHQ-PF50 Applied to the caregivers of children and adolescents with cerebral palsy  
Rogério Pinto, Nivea Morales, Carlos Silva, Renata Sá, Universidade Federal de Uberlândia

T114 Kumaraswamy Regression Model  
Luiz Henrique Dore, Univ Federal de Sergipe; Lucas G. M. Soares, Neurotech Ltda.; Oscar F. F. Raposo, Univ Federal de Sergipe

T115 SIMEX estimation in a model with heteroscedastic measurement errors with replicated observations  
William Oliveira, Mário de Castro, Insto de Ciências Matemáticas e de Computação, Univ de São Paulo - ICME / USP

T116 Comparison of area of influence and health service market using tuberculosis notification in the city of Rio de Janeiro, Brazil  
Rejane Pinheiro, Marcos Pinheiro, Luis Ivan Valencia, UFRJ; Mônica Magalhães, FIOCRUZ

T117 Proposal and evaluation of the methods: probit up and down and probit isotonic  
Lucas Chaves, Univ Federal de Lavras; Edecarlos Miranda de Souza, Univ Federal do Acre; Joel Augusto Muniz, Univ Federal de Lavras

T118 The misuse of margin of error in election polls  
Yury Silva, Carlos Henrique Silva, Univ Federal de Viçosa; Leila Chagas, Univ Federal Fluminense; Elisângela Oliveira, Univ Federal de Viçosa; Pitás Teodoro, Univ Federal Fluminense

T119 The Complementary Exponential-Geometric Distribution with aleatory terms for Univariate Survival Data  
Mary Roman, Francisco Louzada Neto, Cynthia Tojeiro, UFSCar

T120 Detection of Significant Spatial Clusters for homogeneous and Non-homogeneous Spatial Point Processes  
Marcos Antonio Santos, UFMG

T121 Statistical techniques for the evaluation of new risk markers  
Rodrigo dos Reis, Enrico Colosimo, Maria Nunes, UFMG

T122 Corrected Pearson residuals for simplex regression models  
Lucimary Santos, Clarice Demétrio, ESALQ/USP; Gauss Cordeiro, Univ Federal Rural de Pernambuco; Mariana Urbano, ESALQ/USP

T123 A Bayesian analysis for repeat, overdispersed count data  
Fernanda Rizzato, Clarice Demétrio, Roseli Leandro, ESALQ-USP; Geert Molenberghs, I-BioStat

T124 Bayesian Analysis of Scale Mixtures Log-Binbaum-Saunders Regression Models with Censored Data  
Vicente Cancho, Victor Lachos, Univ de São Paulo; Dipak Dey, Univ of Connecticut

T125 A Bayesian estimation of lag length in distributed lag models  
Carlos Diniz, José Galvão Leite, Camila Furlan, UFSCar

T126 Graphical analysis of the efficiency of single imputation by normal distribution and of multiple imputation  
Luiz Alexandre Peternelli, Melissa Pisanoglo de Carvalho, Univ Federal de Viçosa; Carina de Oliveira Anoni, Escola Superior de Agricultura Luiz de Queiroz; Emmanuel Kennedy da Costa Teixeira, Univ Federal de Viçosa

T127 A worst-case bound approach to missing data problems  
Masayuki Henmi, The Inst of Statistical Mathematics

T128 Crossover designs in bioequivalence studies: theoretical and practical issues  
Armindo Siqueira, Rodolfo Santos, Joyce Rodrigues, Univ Federal de Minas Gerais; Daniela Braga, Agência Nacional de Saúde Suplementar; Paula Chellini, Ctr de Pesquisa em Biotecnologia

T129 Modeling the survival times of patients diagnosed with Chagas disease  
Fabio Demarqui, Rodrigo Reis, Maria Nunes, Enrico Colosimo, UFMG

T130 Overdispersion and Natural Mortality  
Mariana Urbano, Clarice Demétrio, Dept de Ciencias Exatas, ESALQ/USP; John Hinde, NUI Galway
T131  Reference prior in variance components estimation  
Adhemar Sanches, Univ Estadual Paulista – UNESP

T132  Operator BLUP’s characterization in hierarchical linear models  
Fernando Velasco, Mario Ojeda, Univ of Veracruz

Friday, 10 December 2010: 14:15 – 16:00

14:15  Contributed Oral 14: Clinical Trials  
Room 9A-B  
Chair: Julio da Motta Singer (Universidade de Sao Paulo, Brazil)

14:15  Surrogate markers in multiple trials  
Jeremy Taylor, Yun Li, Univ of Michigan

14:32  Non-parametric two-sample tests: tuning of raw data before ranking  
Joachim Moecks, BIOMCON GmbH

14:50  A new location-scale test based on a combination of the Levene and Lepage tests  
Markus Neuhaus, RheinAhrCampus

15:07  Extending recurrence-time models of periodic screening to accommodate time-varying incidence and sensitivity  
Cristina Oancea, Timothy Church, Univ of Minnesota

15:25  Application of Simple Statistical Methods to Evaluated Possible Data Fabrication: an Example Using the ACT TRIAL  
Mariana T. Carballo, Alessandra A. Kodama, Alexandre Biasi Cavalcanti, Anna M. Buehler, Otavio Berwanger, HCor

15:42  Performance of likelihood ratio and score tests for detecting a single outlier under a variance shift outlier model in the linear mixed model  
Freedom Gumedze, Univ of Cape Town

14:15  Contributed Oral 14: Correlated Data Methods  
Room 9C  
Chair: Vicente Núñez-Antón (University of the Basque Country, Spain)

14:15  Joint model for times to tumor progression and overall survival dependence: illustration of the R package FRAILTYPACK  
Virginie Rondeau, INSERM U897 (Biostatistic); Stefan Michiels, Inst Gustave-Roussy; Jean Pierre Pignon, Inst Gustave Roussy

14:32  Estimation of covariate effects in generalized linear mixed models with a misspecified distribution of random intercepts and slopes  
John Neuhaus, Charles McCulloch, Univ of California, San Francisco

14:50  Alternative Solution to Separation for Clustered Binary Data  
José Cortillas Abrahantes, Hasselt Univ

15:07  Semiparametric estimation in the bivariate correlated gamma frailty model  
Diana Pflieger, Andreas Wienke, Univ Halle-Wittenberg

15:25  FRAILTYPACK: An R package for the analysis of correlated survival data  
Virginie Rondeau, Yassin Mazroui, INSERM; Juan Ramon Gonzalez, CREAL

15:42  A Family of Generalized Linear Models for Repeated Measures With Normal and Conjugate Random Effects  
Clarice G.B. Demétrio, ESALQ/USP; Geert Molenberghs, Ctr for Statistics, Hasselt Univ; Geert Verbeke, Katholieke Univ Leuven; Afrânio Vieira, Univ de Brasilia

14:15  Contributed Oral 14: Surveillance and Monitoring  
Room 9D  
Chair: Stephen T. Buckland (University of St. Andrews, Scotland)

14:15  Challenges in adapting sequential designs to observational post-licensure vaccine safety studies  

14:32  Real-time Bayesian Risk Prediction for Epidemic Management  
Chris Jewell, Gareth Roberts, Univ of Warwick

14:50  A maximum scan score-type statistic based on Anscombe’s variance stabilization transformation for disease clustering  
Kunihiko Takahashi, Natl Inst of Public Health; Toshiro Tango, Ctr for Medical Statistics

15:07  Estimating HIV incidence by using data from a virological surveillance of new HIV diagnoses  
Ahmadou Alioum, INSERM U897-Univ Victor Segalen Bordeaux 2; Cecile Sommen, Observatoire Regional de Santé d’Ile-de-France; Daniel Commenges, INSERM U897-Univ Victor Segalen Bordeaux 2

15:25  Space Time Surveillance: A critical reevaluation  
Aline Piroutek, Renato Assunção, Thaís Paiva, Univ Federal de Minas Gerais

15:42  Surveillance to detect emerging space-time clusters  
Thais Correa, Univ Federal de Ouro Preto; Renato Asunção, Univ Federal de Minas Gerais
**Friday, 10 December 2010: 14:15 – 16:00 (cont.)**

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<td>Contributed Oral 14: Survival Data V</td>
<td>Chair: Hélène Jacqmin-Gadda (Université Victor Segalen Bordeaux II, France)</td>
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<td>14:15</td>
<td>Nonparametric and Semiparametric Analysis of Current Status Data Subject to Outcome Misclassification</td>
<td><strong>Victor Sal y Rosas</strong>, James Hughes, Univ of Washington</td>
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<td>14:32</td>
<td>The Log-Beta Generalized Half-Normal Regression Model</td>
<td><strong>Rodrigo Pescim</strong>, Edwin Ortega, ESALQ/USP; Gauss Cordeiro, UFRPE/PE; Clarice Demétrio, ESALQ/USP</td>
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<td>Bivariate recurrent event data with repeated incomplete observation gaps</td>
<td><strong>Jinheum Kim</strong>, Univ of Suwon</td>
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<td>15:07</td>
<td>Inverse probability weighted estimators of survival with censored and truncated data</td>
<td><strong>Ronald Geskus</strong>, Academic Medical Ctr</td>
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<td>15:25</td>
<td>Smoothing survival estimates through pseudo observations</td>
<td><strong>Rodrigo Pescim</strong>, Elia Biganzoli, Patrizia Boracchi, Univ degli Studi di Milano</td>
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<td>15:42</td>
<td>Hybrid Intensity Models with threshold Stress and frailty terms for Univariate Survival Data</td>
<td><strong>Cynthia Tejeiro</strong>, Francisco Louzada Neto, UFSCar</td>
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**Friday, 10 December 2010: 16:30 – 17:30**

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<td>Closing Session</td>
<td>To include the presentation of Conference Awards for the Best Student Oral Presentation and the Best Poster Presentation, and an invitation to attend the next IBC in Japan in 2012</td>
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<td>17:30</td>
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CLINICAL TRIALS

Editor: Steven N Goodman  Johns Hopkins University, USA

Clinical Trials: Journal of the Society for Clinical Trials is an international peer reviewed scholarly journal whose primary aim is the dissemination and development of knowledge about the design, conduct, analysis, synthesis, history, ethics, regulation and clinical or policy impact of all types of clinical trials and related medical research methodologies.

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• The continual reassessment method for dose-finding studies: a tutorial
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• A general inefficacy interim monitoring rule for randomized clinical trials

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Map of UFSC Campus

Legend

1. Tents
2. Reitoria Building (located Reitoria Auditorium)
3. Library
4. CTC (Tecnological Center)
5. CSE (Center for Social and Economic)
6. CDS (Sports Center)
7. CFH (Center for Philosophy and Humanities)
8. Garden
Exhibition, Poster and Floorplan

Guide to Exhibition Stands
1. John Wiley & Sons
2. IBC 2012
3. CRC Press – Taylor & Francis

Rooms and Auditoriums
6: Garapuvu Auditorium
8: Speaker Preview Room
9A, 9B, 9C and 9D: Oral presentations and Invited Sessions
13A, 13B, 13C and 13E: Oral presentations and Committee Meetings

Note: Reitoria Auditorium is located in a building close to the Conference Venue - approximately 100 meters (see legend on Map of UFSC Campus). Additional seatings for lunchtimes and to get together with delegates will be in two tents, located halfway between the Conference Venue and Reitoria building.
XXVIth International Biometric Conference
Organized by the Biometric Society of Japan, Japanese Region of the International Biometric Society

August 26-31, 2012
Kobe International Conference Center Kobe, Japan

Invitation
We are pleased to welcome you to Kobe for the XXVIth IBC in Kobe, Japan. As always, it will bring together participants from all over the world working in academic institutions, government agencies, and industry to exchange ideas on the latest advances in biometry, biostatistics and bioinformatics. It will also be an occasion to meet old and new friends, and the chance to visit historical cities such as Kobe, Kyoto, and Nara.
(Toshio Tango, Chair Local Organizing Committee)

About Kobe
Kobe, located almost in the center of Japan, is known as a city having a unique style with the exotic atmosphere in Japan, which has been affected by the foreign cultures and flourished as the international port since old days. Kobe boasts the Rokko Mountains richly endowed with nature and has flourished as the hot spring street such as Arima since old days. Kobe is also known as the gourmet street (Kobe beef, Nada Japanese sake, wine and sweets), as well as the fashion street with the sophisticated image.

About Conference Venue
IBC 2012 will be held at the Kobe International Conference Center within the Kobe Convention Center Complex, located on Port Island, an artificial island in Kobe. It features a combination of extensive conference facilities, modern and affordable accommodations, and a rapid and efficient transportation system.

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Closest International Airport
Kansai International Airport (KIX)
Bay Shuttle Ferry + Port Liner 40min
Limousine Bus + Port Liner 80min
Shuttle Taxi 80min

Access Via Other Japanese Airports
Tokyo (Narita International Airport) (NRT)
NEX & Shinkansen 60min & 2hr 48min

Conference Organization
Organizing President
Kaye E. Basford, University of Queensland, Australia
International Programme Committee Chair
Christine McLaren, University of California, USA
Local Organizing Committee Chair
Toshio Tango, Center for Medical Statistics, Japan

Scientific Programme
• Opening ceremony and IBS Presidential address
• Full programme of invited oral sessions
• Contributed oral and poster sessions
• Sessions highlighting the society’s publication, Biometrics and JABES
• Pre-conference short courses

Social Programmes
Sunday 26 Welcome gathering at KICC
Monday 27 Civic reception in Kobe City Center
Tuesday 28 Optional evening social activities
Wednesday 29 Range of social excursions (one-day)
Thursday 30 Conference dinner

For constantly updated information, please see the website
http://www.secretariat.ne.jp/ibc2012/