101st OMICS Group Conference

Scientific Program

2nd International Conference and Exhibition on

Biometrics & Biostatistics

June 10-12, 2013 Hilton Chicago/Northbrook, USA



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OMICS Group Conferences

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18:00-19:00 **Registrations** June 09, 2013

Day 1 June 10, 2013

08:00-09:00 **Registrations**

Hickory

09:00-09:30 **Opening Ceremony**

Keynote Forum

Keynote Chair: Richard Charnigo
University of Kentucky, USA

09:30-10:05 **Celebrating the international year of statistics**
Ronald L Wasserstein
American Statistical Association, USA

10:05-10:40 **Advances in EM-test for testing the order of a finite mixture**
Pengfei Li
University of Waterloo, Canada

Coffee Break @ Birch 10:40-11:00

Track 1: Medical and Clinical Biostatistics

Session Introduction

Session Chair: Pengfei Li, University of Waterloo, Canada
Session Co-Chair: Dongfeng Wu, University of Louisville, USA

11:00-11:20 **Assessing reproducibility of proteomic data by the multivariate coefficient of variation**
Adelin Albert, University of Liege, Belgium

11:20-11:40 **Maximin and maximin efficient designs for functional MRI experiments**
Ming-Hung Kao, Arizona State University, USA

11:40-12:00 **Nonparametric tests for ordering in mixed block designs**
Rhonda Magel, North Dakota State University, USA

12:00-12:20 **Inference of long term effects and over-diagnosis in periodic cancer screening**
Dongfeng Wu, University of Louisville, USA

12:20-12:40 **Parametric component detection and variable selection in varying-coefficient partially linear models**
K.B. Kulasekera, University of Louisville, USA

Exhibition & Lunch Break @ Pond view room 12:40-13:40

13:40-14:00 **Predictive accuracy of covariates for survival outcomes**
Li Chen, University of Kentucky, USA

14:00-14:20 **Recent advances in non-contact opto-physiological monitoring techniques for human metrics**
Sijung Hu, Loughborough University, UK

14:20-14:40 **Stochastic modeling of patients recruitment in clinical trials**
Nicolas Savy, University Paul Sabatier, France

14:40-15:00 **A small scale Phase IV clinical study dealing with cardiotoxicity after cancer treatment**
Shesh N Rai, University of Louisville, USA

Panel Discussion

Track 2: Computer Science and Systems Biology

Session Chair: K.B. Kulasekera, University of Louisville, USA

15:00-15:20 **A Mathematical model for a dendritic cell-based vaccine for Mycobacterium tuberculosis infection**
Nothabo Dube, Texas Tech University, USA

15:20-15:40 **Comparing correlated means in the presence of incomplete data using a Permutation Test**
Desale Habtzghi, University of Akron, USA

Track 3: Biostatistics and Bio-Systems Engineering

Session Chair: Joseph S. Verducci, Ohio State University, USA

15:40-16:00 **Estimating the prevalence of a rare disease from incomplete lists: A bayesian approach**
Cecile Chouquet, Universite Paul Sabatier, France

	Coffee Break @ Birch 16:00-16:20
16:20-16:40	**Simultaneous discovery of a gene network and the chemicals to which it reacts: Analysis of hepatocyte expression in the TG-GATEs database** **Joseph S. Verducci,** Ohio State University, USA
16:40-17:00	**Joint modeling multivariate longitudinal healthcare utilization outcomes** **Mulugeta Gebregziabher,** Medical University of South Carolina, USA
17:00-17:20	**Inferring functional interaction and transition patterns via dynamic bayesian variable partition model** **Jing Zhang,** Yale University, USA
17:20-17:40	**Bio-Matrix integration and development of biometrics technologies in a unified platform for Antemortem and Post mortem identification of popultaions** **Victor H. Rocha,** QuarkSoft, Mexico
17:40-18:00	**Linear and quantile mixed-effects models comparison in traumatic brain Injury clinical trials** **Sara Algeri,** Texas A&M University, USA
	Panel Discussion
18:00-19:00	Cocktails @ Birch Sponsored by Journal of Biometrics & Biostatistics

Keynote Forum

09:00-09:35 Perspectives on Human Bias versus Machine Bias: Generalized Linear Models

S. Ejaz Ahmed

Brock University, Canada

Day 2 June 11, 2013

Hickory

Track 4: Statistical Genetics

Session Overview

Session Chair: **David Fardo**, University of Kentucky, USA

09:35-09:55	**Aggregating disparate study designs in genetic sequencing studies** **David Fardo,** University of Kentucky, USA
09:55-10:15	**Alternative direction minimization methods for phenotype prediction and variable selection** **Momiao Xiong,** University of Texas, USA
	Coffee Break @ Birch 10:15-10:35
10:35-10:55	**Gene-environment interaction studies with measurement error application in CODING study** **Taraneh Abarin,** Memorial University, Canada
10:55-11:15	**The phenx toolkit- online catalog of consensus measures for phenotypes and exposures** **Wayne Huggins,** RTI International, USA
11:15-11:35	**The contaminated chi-square model and its application to microarray data analysis** **Richard Charnigo,** University of Kentucky, USA

Track 5: Regression Analysis

Session Chair: **Adelin Albert**, University of Liege, Belgium

11:35-11:55	**Instrumental variables estimators to address measurement errors in proteomics** **Gabriela Cohen Freue,** University of British Columbia, USA
11:55-12:15	**On the marginal analysis of correlated data with an improved quadratic inference function approach** **Phillip Westgate,** University of Kentucky, USA
12:15-12:35	**Self-modeling regressions of longitudinal data with authoregressive moving average processes of unknown orders** **Rhonda Szczesniak,** Cincinnati Childrens Hospital, USA
	Panel Discussion
	Exhibition & Lunch Break @ Pond view room 12:35-13:35

13:35-14:35 Exhibition & Poster Presentations @ Birch

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Track 6: Sampling Techniques

Session Chair: **Amandio Vieira**, Simon Fraser University, Canada

14:35-14:55	**Do haplotype tests gain power than collapsing tests in general pedigree-based association studies for detecting rare variants?** **Wei Guo,** National Institute of Mental Health, USA
14:55-15:15	**Transthyretin: Some physiological and pathological aspects** **Amandio Vieira,** Simon Fraser University, Canada
15:15-15:35	**Large-scale risk prediction applied to the mini-exome sequence data** **Gengxin Li,** Wright State University, USA

15:35-15:55	**The logistic regression model with a modified response probability in survival analysis** **Ogoke Uchenna**, University of Port Harcourt, Nigeria
15:55-16:15	**Extended variable selection models for missing data with application to predict median effective dose and maximum effect** **Maiying Kong**, University of Louisville, USA
	Coffee Break @ Birch16:15-16:35
16:35-16:55	**Optimal sample size allocation with financial constraint and maximum effect** **Jiangtao Luo**, University of Nebraska Medical Center, USA
	Panel Discussion
	Student Presentations
Session Chair:	**Richard Charnigo**, University of Kentucky, USA
16:55-17:15	**Recent advance in factor analysis** **Baohua HE**, United International College, China
17:15-17:35	**Effect of core body temperature on semen quality in stallions experimentally infected with equine arteritis virus** **Michael Singleton**, University of Kentucky, USA
17:35-17:55	**A novel method for imputing summary statistics of untyped SNP using the summary information from the neighboring SNPs** **Yadunath Gautam**, Central Michigan University, USA
17:55-18:15	**Modeling the relationship between below ground and above ground biomass of black cohosh** **Gabrielle Ness**, University of Kentucky, USA
	Panel Discussion
	Editorial Board Meeting
18:15-19:15	**Cocktails @ Birch: Journal of Computer Science & Systems Biology : Open Access**

Day 3 June 12, 2013

Hickory

Session Overview

Track 7: Biometrics
Track 8: Multibiometric Systems
Track 9: Current Research Trends in Biometrics and Biostatistics

08:30-08:50	**Empowering India through Unique IDs to 1.2 Billion Indians** **AB Pandey**, Unique Identification Authority of India, India
08:50-09:10	**Empowering India through Unique IDs to 1.2 Billion Indians** **Sujata Chaturvedi**, Unique Identification Authority of India, India
09:10-09:30	**Empowering India through Unique IDs to 1.2 Billion Indians** **Vivek Nangia**, Unique Identification Authority of India, India
09:30-09:50	**Empowering India through Unique IDs to 1.2 Billion Indians** **Prashant Pati Singh**, Unique Identification Authority of India, India
09:50-10:10	**Face recognition in uncontrolled conditions – Can compressive sensing and super-resolution meet requirements of this challenge?** **Sabah A. Jassim**, University of Buckingham, UK
	Coffee Break @ Birch 10:10-10:30
10:30-10:50	**Modeling the onset of a longitudinal data with association to genetic information using a mixture model** **Mengyuan Xu**, National Institute of Mental Health, USA
10:50-11:10	**Bio-ID: Biologically inspired identification and recognition system** **E. O. Nwoye**, University of Lagos, Nigeria
11:10-11:30	**Longitudinal zero-inflated count data with random effects to model Instrumental Activities of Daily Living (IADL-s)** **Ping Yao**, Northern Illinois University, USA
	Workshop
11:30-13:00	**Meta Analysis: Making sense or Folly** **Ejaz Ahmed**, Brock University, Canada
	Panel Discussion
	Award Ceremony
	Lunch Break @ Pond view room 13:00-14:00