

**Second International Conference on Cancer Risk  
Assessment  
(ICCRA 2)**

*Mathematical, Statistical and Computational Methods*

**May 25-27, 2007  
Santorini, Greece**

**The International Organizing Committee (IOC)**

Mikhail Nikulin (France)  
Mei-Ling Ting Lee (USA)  
Lutz Edler (Germany),  
Christos Kitsos (Greece)  
Catherine Huber (France)  
Valeri Fedorov (USA)  
Nikolaos Limnios (France)  
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Giovanni Zapponi (Italy)  
Vladimir Bencko (Czech Republic)

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Bas. Basiliadis (Uni. Thrace, Xanthi)  
John Kandarakis (TEI Athens)

# *PROGRAM*

Friday, 25 May 2007

09:00 – 10:00    **Registration**

10:00 – 10:10    **Welcome address**

## *Session 1:      Cancer Risk Assessment*

**Chairman: Dr Lutz Edler**

09:50 - 10:10

**Zapponi, G.**

On the Chernobyl accident

10:10 – 10:30

**Bencko V., J. Rameš, L., Juříčková, M. Brabec, M. Černá**

Risk of Incidence of Selected Malignancies & Human Exposure to Polyhalogenated Hydrocarbons .

10:30 – 10:50

**J. J. Amaral Mendes** and Eric Pluygers

Cancer Mutation Theory VS. Tissue Field Theory

10:50 – 11:10

**Chao Chen**

Analyzing epidemiological cancer data from the view of understanding cessation lag.

11:10 – 11:30

**Edler Lutz**

Safety Assessment or Risk Extrapolation for Cancer Risk Assessment: A controversy?

11:30 – 12:00    **Coffee Break**

## ***Session 2: Life Data Analysis***

**Chair** : Prof. Mei- Ling Ting Lee

**12:00 – 12:20**

**Huber Catherine**, Shulamith Gross  
Multivariate Survival Data With Censoring

**12:20 – 12:40**

**Deborah L. Goldwasser**, Marek Kimmel,  
Excess Risk from Chest Xray Screening: Re-analysis of Mayo Lung Project.

**12:40 – 13:00**

**Zhezhen Jin**  
Least squares estimation of linear model for censored data

**13:00 – 13:20**

**Rompogiannakis Ioannis** and Christos H. Skiadas  
Modeling the Parasite Population Growth by Using the GRM1 Model.

**13:20 – 13:40**

**Caroni C.**  
Two testing problems in the analysis of lifetime data

**13:40 – 14:00**

**Kopytov Eugene**, Diana Santalova  
Investigation of Linear Regression and Single Index Models For Forecasting of the  
Inland Rail Passenger Conveyances

**14:00 – 16:00**    **Light Lunch**

## ***Session 3: Quantitative Methods For Cancer Risk Assessment***

**Organizer: Prof. Christos Kitsos**

**Chairman: Prof Alex Rigas**

**16:00 – 16:20**

**Fiorentino Giuseppe and Alessandra La Spina**

Medical databases: difficulties and diagnosis/prognosis perspectives

**16:20 – 16:40**

**C. P. Kitsos, Chalikias M. S., G. P. Voutsinas**

A quantitative approach to Breast Cancer data.

**16:40 – 17:00**

**Rigas A. G., V.G. Vassiliadis**

A semi-parametric test for comparing the estimated spectra of two stationary point processes: An alternative approach.

**17:00 – 17:20**

**Biebler Karl-Ernst and Bernd Jäger**

Cancer Risk Assessment for the Two Sample Design

**17:20 – 18:00**

**Stellas, D. , Patsavoudi, E.**

The monoclonal antibody, mAb 4C5, against heat shock protein 90 (HSP90) inhibits B16F10 melanoma cell invasion and metastasis in C57BL/6 mice.

**20:30 – 23:00**

**Welcome Drink – Accompanying persons also**

Saturday, 26 May 2007

**Session 4:      *Degration Models and Survival Data  
Analysis in Carcinogenesis***

**Chair : Prof. Catherine Huber**

**09:00 – 09:20**

**Bonaiti-Pellié Catherine**

Cancer risk estimated from family data in hereditary syndromes: interest and properties of the GRL (genotype restricted likelihood).

**09:20 – 09:40**

**Nikulin Mikhail** and Annie J. Sasco

Cancer : a complex disease in need for more flexible models

**09:40 – 10:00**

**Nikulin Mikhail** and Hong-Dar Isaac Wu

Dynamic regression models for clinical trials and follow-up studies.

**10:00 – 10:20**

**Limnios Nikolaos**, Gulati Sneh

Testing for Semi-Markov Processes.

**10:20 – 10:40**

**Rondeau<sup>1</sup>, V.**, Mathoulin-Pelissier, S., Jacqmin-Gadda, h., Brouste, V., Soubeyran,F.

Joint frailty models for recurring events and death using maximum penalized likelihood estimation: application on cancer events.

**10:40 – 11:00**

**Michalski A. I.**, V. K. Ivanov, S. Y. Chekin, M. A. Maksioutov

Heterogeneity adjusted risk estimation in the range of low-dose radiation

**11:00 – 11:30    Coffee Break**

## ***Session 5: Cancer Studies and Clinical Trials***

**Organizer:** Prof. Mei - Ling Ting Lee

**Chair** : Prof. Chrys Caroni

**11:30 - 11:50**

**Segal Mark R.**

Sequence-Based Prediction of CpG Island Methylation.

**11:50 - 12:10**

**Beckett Laurel, Joshua Fenton, Yolanda Hagar**

Colorectal cancer: are we screening our way to risk reduction?

**12:10 - 12:30**

**Mei-Ling Lee Ting**

Threshold Regression Models for Cancer Risk Assessment.

**12:30 - 12:50**

**Chang Mark**

Multiple-Endpoint Adaptive Design.

**12 :50 - 13:00**

**Lagakos Stephen**

Assessing the Role of a Partially-Observed Biomarker on Disease Risk, with Application to Hepatitis B and Liver Cancer.

**20:30**

**Dinner (Participants and Accompanying)**

Sunday, 27 May 2007

09:30 – 10:30 Committee Meeting

*Session 6: Bioinformatics*

**Organizer: Prof. Mei – Ling Ting Lee**

**Chairman : Prof. Mark Segal**

10:30 – 10:50

**Bradley Broom**

Learning Reliable Bayesian Networks from Limited Data.

10:50 – 11:20

**Kim-Anh Do**

Bayesian Mixture Models for Complex High-Dimensional Count  
Data in Phage Display Experiments.

11:20 – 12:00

M. Bernal, **Chalikias, M. S.**, C. P. Kitsos

Analysing data set on Thyroid Cancer.

## ***Session 7: Theoretical Background for Cancer Models***

**Chairman: Prof. Mikhail Nikulin**

**12:00 – 12:20**

**Filus Lidia Z., Jerzy K. Filus**

Construction of New Multivariate Probability Distributions With Some Biomedical Applications.

**12:20 – 12:40**

**Vassiliadis V. G., A.G. Rigas**

A test based on the bispectrum characterizing the behavior of a stochastic system of stationary processes.

**12:40 – 13:00**

**Ch. E. Minder , U. Held , L. Bachmann , A. Kessels**

On the advantage of using the hazard ratio in meta-analyses of randomized clinical Trials.

**13:00 – 13:20**

**Fedorov, V., Liu, T.**

Randomized Discontinuation Trials with Binary Outcomes.

**13:20 – 13:40**

**Haghighi, F.**

Generalization of Weibull Distribution with Application to the Analysis Of Cancer Data

**13:40 -14:00 Closing the meeting - Discussion**