

30 September - 02 October 2010
Nomikos Conference Center, Thira, Santorini
Greece

5th SANTORINI CONFERENCE

Functional Genomics towards Personalized Health Care

Oral presentation
Posters Sessions



Nancy-Université



Inserm



AACC

Thursday 30 September Morning

8:15 a.m **OPENING**

Gérard SIEST, University Henri Poincaré, France

Catherine HAMMETT STABLER, American Association of Clinical Chemistry (AACC), USA

Hong SHANG, Chinese Society of Laboratory Medicine (CSLM), China

SATELLITE MEETING:

GENOME WIDE ASSOCIATION STUDIES (GWAS)

Organization and chairs: -Sophie VISVIKIS-SIEST, Nancy, France
-Philippe FROGUEL, Lille, France

8:30 a.m

> **GWAs in common diseases: a stage report**

8:30 a.m **John P.A IOANNIDIS**, Clinical Trials and Evidence-Based Medicine Unit, University of Ioannina, Greece
Genome-wide Association Studies, fiels of synopsis and the development of the knowledge based on genetic variation and human diseases

9:00 a.m **Philippe FROGUEL**, CNRS and Pasteur Institute, Lille, France
Diabetes/obesity: What did it change?

9:30 a.m **Sophie VISVIKIS-SIEST**, Université Henri Poincaré, EA 4373 Cardiovascular Genetics, Nancy, France
Cardiovascular diseases and related quantitative traits

9:50 a.m **Martin SEIFERT**, Genomatix Software GmbH, Munchen Germany
Next generation sequencing enabling new perspectives for Personalized Medicine

10:10 a.m **Carsten ROSENOW**, Illumina, Cambridge, United Kingdom
Next generation genotyping studies: bringing the power of recent discoveries to your research

10:30 a.m **BREAK - POSTERS VISIT**

11:00 a.m

> **Post GWAs of common disorders: new insights and hopes**
Chairs:

11:00 a.m **Heather J. CORDELL**, Institute of Human Genetics, Newcastle University, United Kingdom
Investigation of maternal effects, maternal-foetal interactions and parent-of-origin effects (imprinting) in genome-wide association studies

11:30 a.m **Allen ROSES**, Deane Drug Discovery Institute, Durham, USA
Genetics factors that impact the risk of Alzheimer's disease

12:00 a.m **Christopher BELL**, UCL Cancer Institute, University College of London, United Kingdom
Integration of GWAs and DNA methylation epigenetic data in type 2 diabetes

12:20 a.m **Marcus DROEGE**, Roche Diagnostics, Penzberg, Germany
Sequencing of disease associated regions using the Genome Sequencer FLX System
Examples of Alzheimer disease and colon cancer

12:40 a.m **Eleftheria ZEGGINI**, Wellcome Trust Sanger Institute, Cambridge, United Kingdom
Rare variant analysis in large-scale association and sequencing studies

1:00 p.m **LUNCH - POSTERS VISIT**

Thursday 30 September Afternoon

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2:30 p.m > **FROM GENOME WIDE SCAN TO SYSTEM BIOLOGY**
4:30 p.m **Chairs:**

2:30 p.m **Andreas PAPASSOTIROPOULOS**, Basel, Switzerland
From Genome-Wide survey of human memory to drug identification and personalized medicine: Opportunities and pitfalls

3:00 p.m **Bruno DOMON**, Luxembourg Clinical Proteomics Initiative, Public Research Center of Health, Luxembourg
Proteomics and system biology

3:30 p.m **Giulio SUPERTI-FURGA**, Research Center For Medicine, Austrian Academy of Sciences, Vienna, Austria
Molecular Networks and the mechanism of action of drugs

4:00 p.m **Randy JIRTLE**, Duke University Medical Center, Durham, USA
Environmental epigenetics and human disorders

4:30 p.m **POSTERS VISIT BY THE POSTER COMMITTEE I**

5:15 p.m > **INFECTIOUS DISEASES, GENETICS AND NEW BIOMARKERS**
6:45 p.m **Chairs:**

5:15 p.m **Erwin SCHURR**, McGill Centre for Study of Host Resistance, McGill University, Montréal, Canada
Genetic of susceptibility to infection diseases

5:45 p.m **Hong SHANG**, China Medical University, Shenyang, China
Genetic and epidemiologic characterization of human immunodeficiency virus type 1 infection in Liaoning Province, China

6:05 p.m **Gerd MICHEL**, Foundation for innovative New Diagnostics, Geneva, Switzerland
Novel biomarkers for tuberculosis

6:25 p.m **Martin CROCKARD**, Randox Laboratories LTD, Crumlin, UK
6:45 p.m Multiplex PCR coupled to Biochip Array Technology for the simultaneous detection of 10 sexually transmitted infections

7:00 p.m **OPENING RECEPTION**
Franco's bar on the Caldera

Friday 01 October Morning

8:30 a.m. > INFLAMMATION AS A COMMON DENOMINATOR OF CHRONIC AND INFECTIOUS DISEASES

Chairs:

- 8:30 a.m. Claudia MONACO Kennedy Institute of Rheumatology, London, United Kingdom
The inextricable link between atherosclerosis and inflammatory chronic disease
- 9:00 a.m. Wei CUI Peking Union Medical College Hospital, Beijing, China
Novel biomarkers for better diagnosis of sepsis
- 9:20 a.m. Jean-Yves BONNEFOY Transgene, Strasbourg, France
Inflammation and targeted immunotherapy
- 9:40 a.m. Aksam MERCHED INSERM U828- Pessac, France, Baylor College of Medicine, Houston, USA
Bioactive lipid mediators for the control of inflammatory homeostasis and the resolution of vascular inflammation
- 10:00 a.m. Ndeye Coumba NDIAYE, EA 4373- Genetic Cardiovascular-Université de Nancy, France
Genetics of Haptoglobin and relationships with lipid metabolism
- 10:15 a.m. Majid GHAYOUR-MOBARHAN Mashhad University of Medical Science, Iran
The potential role of heat shock proteins in cardiovascular disease: From basic to clinical implication

10:30 a.m. BREAK - POSTERS VISIT - GROUP PICTURE

> CARDIOVASCULAR DISEASES AND GENE ENVIRONMENT

Chairs:

- 10:30 a.m. Steve HUMPHRIES British Heart Foundation Laboratories, London, UK
Exploring the Genetic architecture of plasma lipids traits using the 50k cardiometabolic chip
- 11:10 a.m. Mike TSAI Biochemical Genetics Laboratory, University of Minnesota Medical School, USA
Interaction of lipoygenase polymorphisms with omega3 fatty acids and subclinical measurements of CAD
- 11:40 a.m. Danielle HOF Institute for Clinical Chemistry, University Hospital Zurich, Switzerland
Use of phase display screening for biomarkers discovery
- 12:20 a.m. Philippa TALMUD Centre of cardiovascular Genetics, University College London, UK
Using genetic and non-genetic risk factors to predict type 2 diabetes: The Whitehall II Study
- 12:40 a.m. Michel KREMPEF University of Nantes, France
Intestinal absorption of cholesterol: role of natural sterols

1:00 p.m. LUNCH

Friday 01 October Afternoon

2:00 p.m. POSTERS VISIT BY THE POSTER COMMITTEE II

3:00 p.m. > NUTRIGENOMICS EPIGENETICS

Chairs:

- 3:00 p.m. Martin KUSSMANN Nestlé Research Center, Lausanne, Switzerland
Nutrigenomics - About mechanism, efficacy, disposition and programming
- 3:30 p.m. Hannelore DANIEL University of Munich, Germany
Phenotyping approaches and omics applications in nutrition research
- 4:00 p.m. Edgar DELVIN Department of Biochemistry, CHU Ste Justine, Montréal, Canada
Diet and environment long term influence on gene expression - The Barker hypothesis
- 4:20 p.m. Jean-Louis GUEANT INSERM U 724 «Genetic nutrition and exposition to environment risk» Nancy, France
Nutrigenomic mechanisms of the deficiency in methyl donors: experimental based evidences and population studies
- 4:40 p.m. Nabila BOUATIA-NAJI CNRS and Pasteur Institute, Lille, France
Nutrigenetics in the GWAs era

5:00 p.m. BREAK - POSTERS VISIT

> NUTRIGENOMICS: GENES INTERACTIONS STUDIES

Chairs:

- 5:30 p.m. George DEDOUSSIS University of Harokopio, Athens, Greece
Self-reported zinc and zinc intake x genetic loci interactions on health status and age-related diseases
- 5:45 p.m. Iwona RUDKOWSKA Institute of Nutraceuticals and Functional Food (INAF), Quebec city Canada
Validation of the use of peripheral blood monocyte cells as surrogate markers for skeletal muscle tissue in nutrigenomic studies
- 6:00 p.m. Nikolaos YIANNAKOURIS University of Harokopio, Athens, Greece
Genetic variants near IRS1 and their association with type 2 diabetes, hyperinsulinemia and insulin resistance in UK population-based cohorts and type 2 diabetic patients
- 6:15 p.m. Chao-Qiang LAI Tufts University, Boston, USA
Adaptive genetic variants and their implications in metabolic syndrome and heart disease risk

8:30 p.m. EVENING: GALA DINNER - AWARDS PRESENTATIONS

Saturday **02** October Morning

8:30 a.m. > **FUNDAMENTAL PHARMACOGENOMICS**

10:30 a.m.

Chairs:

- 8:30 a.m. Urs A MEYER, Biozentrum, University of Basel, Switzerland
From drug metabolism to pharmacogenomics
- 9:00 a.m. Wolfgang SADEE The Ohio State University, Columbus, USA
Polymorphisms affecting gene transcription in pharmacogenetic candidate genes :
Detection through Allelic Expression Imbalance
- 9:30 a.m. George P. PATRINOS School of Health Science, University of Patras, Greece
Transcriptional regulation and pharmacogenetics
- 9:50 a.m. Peter MEIER-ABT University of Basel, Switzerland
Relevance of drugs transporter polymorphism for pharmacotherapy
- 10:10 a.m. Winfried SIFFERT Institute of Pharmacogenetics, University Hospital Essen, Germany
Single nucleotide polymorphisms in genes encoding G proteins in pharmacogenetics

10:30 a.m. **BREAK - LAST POSTERS VISIT**

11:00 a.m. > **PHARMACOGENOMICS TRANSLATIONAL ASPECTS**

12:30 a.m.

Chairs:

- 11:00 a.m. Richard DEAN HOCKETT Affymetrix, Santa Clara, USA
Translation of genetic technologies into clinical practice
- 11:20 a.m. Lars VERSCHUREN TNO quality of life, Zeist, The Netherlands
System characterization of drug combination therapies in mouse models of metabolic syndrome
- 11:35 a.m. Alessandra C.L. CERVINO TcLand expression, Nantes, France
Meta-analysis of gene expression datasets in rheumatoid arthritis identifies biologically relevant genes predictive of early non response to infliximab treatment
- 11:50a.m. Peter SCHULZ-KNAPPE Protagen AG, Dortmund, Germany
Auto-antibody signatures for disease diagnosis in cancer and autoimmune disease
- 12:05 a.m. Sandra CLOSE KIRKWOOD Eli Lilly and Co, Indianapolis, USA
Thienopyridine genetics
- 12:20 a.m. George LALLAS Zafiropoulos Company, Athens Greece
Theragnostics: mRNA FlowFish - A Novel approach in HIV TROPISM detection - A valuable tool on the decision over CCR5 blocers

12:35 a.m. **LUNCH**

Saturday **02** October Afternoon

2:00 p.m. > **PHARMACOGENOMICS AND PERSONALIZED 5:30 p.m. > **MEDECINE IN CLINICAL PRACTICE****

round table > format: 10min presentation, and panel discussion

Moderators: -Felix FRUEH Medco Health Solutions Inc., Bethesda, USA
-Alain HURIEZ President of the European PErsonalized MEdecine
Diagnostics (EPEMED), Nantes, France

2:00 p.m. > **I. Changing Clinical practice based on evidence generated in real world.** 4:00 p.m. **Comparative effectiveness studies: a series of examples**

- Felix FRUEH Medco Health Solutions Inc., Bethesda, USA
Pharmacogenomics in clinical practice: Example from the Real-World
- Alberto LAZAROWSKI Clinical Biochemistry, Buenos Aires University, Argentina
Impact of ATP-binding-cassette (ABC) transporters in epilepsy and stroke
- Adrian LLERENA Clinical Research Centre, Extremadura University Hospital, Badajoz,
Spain
Application of Pharmacogenetics in psychiatry. Clinical and technical aspects
- Federico INNOCENTI Department of Medicine, University of Chicago, USA
Pharmacogenomics application in cancer
- Jerry YEO Cardiopharmacogenomics application in cancer
Cardiopharmacogenomics : Application of pharmacogenomics in cardiology
- Ron VAN SCHAİK Torax LaboratoryRotterdam, The Netherlands
Pharmacogenetics and transplantation

general discussion

4:00 p.m. > **II. Development and use of theragnostics biomarkers. Needs of guidelines**

5:30 p.m.

- Alain HURIEZ President of the European PErsonalized MEdecine Diagnostics (EPEMED),
CEO Tc land Expression, Nantes, France
- Nikolaos DRAKOULIS University of Athens, Greece
Prognostic and Predictive Genetic Biomarkers as tools in drug response
- Vangelis G. MANOPOULOS Dermocritus University of Thrace, Alexandroupolis,
Greece
Genotype-guided dosing of coumarin derivatives : The EUropean-Pharmacogenetics of
AntiCoagulant Therapy (EU-PACT) Consortium Trial
- Jerry YEO and Steven WONG University of Chicago and Medical College of Wisconsin, USA
Personalized Justice: The promises of translational pharmacogenomics in the justice system
- general discussion with the participation of Shaïd IMRAN (De) and
Adriano HENNEY (IT)

