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5th SANTORINI CONFERENCE

Functional Genomics towards Personalized Health Care

Preliminary Scientific Programme

30 September – 2 October 2010

Nomikos Conference Center, Thira, Santorini, Greece

Main Sponsors



Thursday 30 September
Morning

8:15 a.m. - OPENING

G rard SIEST, University Henri Poincar , Nancy, France
Catherine HAMMETT STABLER, American Association of Clinical Chemistry (AACC), USA
Hong SHANG, Chinese Society of Laboratory Medicine (CSLM), China

Chairs: Ph. Froguel / S. Visvikis-Siest

**Satellite Meeting: GENOME WIDE ASSOCIATION Studies
(GWAs)**

► **GWAs in common diseases: a stage report - 8:30 a.m. - 10:30 a.m.**

8:30 a.m. – 9:00 a.m.

John P.A. IOANNIDIS, Clinical Trials and Evidence-Based Medicine Unit, University of Ioannina, Greece

Genome-Wide Association Studies, Field of synopses and the development of the knowledge based on genetic variation and human diseases

9:00 a.m. – 9:30 a.m.

Philippe FROGUEL, CNRS and Institut Pasteur, Lille, France

Diabetes/obesity: what did it change?

9:30 a.m. – 9:50 a.m.

Sophie VISVIKIS-SIEST, University Henri Poincar , Cardiovascular Genetics Unit, Nancy, France
Cardiovascular diseases and related quantitative traits

9:50 a.m. – 10:10 a.m.

Martin SEIFERT, Genomatix Software GmbH, Munchen Germany

Next generation sequencing enabling new perspectives for Personalized Medicine

10:10 a.m. – 10:30 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. – 11:00 a.m. – BREAK – POSTERS VISIT

► **Post GWAs of common disorders: new insights and hopes - 11:00 a.m. - 1:00 p.m.**

► *Chairs:*

11:00 a.m. – 11:30 a.m.

Heather J. CORDELL, Institute of Human Genetics, Newcastle University, United Kingdom

Maternal effects, maternal-foetal interactions and parent-of-origin effects in genome-wide association studies

11:30 a.m. – 12:00 a.m.

Myles BROWN, Dana Farber, Boston, USA

GWAs and cancer

12:00 a.m. – 12:20 p.m.

Marcus DROEGE, Roche Diagnostics, Penzberg, Germany

Sequencing of disease associated regions using the Genome Sequencer FLX System. Exemples of Alzheimer disease and colon cancer

12:20 p.m. – 12:40 p.m.

Richard DEAN HOCKETT, Affymetrix, Santa Clara, USA

12:40 p.m. - 1:00 p.m. - ORAL SELECTED PRESENTATIONS

1:00 p.m. – 2:30 p.m. – LUNCH - POSTERS VISIT

Thursday 30 September

Afternoon

► **From Genome Wide Scan to systems biology - 2:30 p.m. - 4:30 p.m.**

► *Chair:*

2:30 p.m. - 3:00 p.m.

Andreas PAPANASTASIIOPOULOS, Basel, Switzerland

From Genome-Wide survey of human memory to drug identification and personalized medicine:
Opportunities and pitfalls

3:00 p.m. - 3:30 p.m.

Bruno DOMON, Luxembourg Clinical Proteomics Initiative, Public Research Center for Health,
Luxembourg
Proteomics and system biology

3:30 p.m. - 4:00 p.m.

Giulio SUPERTI-FURGA, Research Center for Molecular Medicine, Austrian Academy of Sciences,
Vienna, Austria
Molecular networks and the mechanism of action of drugs

4:00 p.m. - 4:30 p.m.

Randy JIRTLE, Duke University Medical Center, Durham, USA
Environmental epigenetics and human disorders

4:30 p.m. – 5:15 p.m. – BREAK – Posters visit by the poster committee

► **Infectious diseases, genetics and new biomarkers - 5:00 p.m. - 6:50 p.m.**

► *Chair:*

5:15 p.m. - 5:45 p.m.

Erwin SCHURR, McGill Centre for the study of Host Resistance, McGill University, Montréal,
Québec, Canada
Genetic of susceptibility to infection diseases

5:45 p.m. - 6:05 p.m.

Hong SHANG, China Medical University, Shenyang, China
Viral infections and genetics

6:05 p.m. - 6:25 p.m.

Gerd MICHEL, Foundation for Innovative New Diagnostics, Geneva, Switzerland
Novel biomarkers for tuberculosis

6:25 p.m. - 6:45 p.m.

Martin CROCKARD, Randox Laboratories LTD, Crumlin co Antrim, United Kingdom
Multiplex PCR coupled to Biochip Array Technology for the simultaneous detection of 10 Sexually
Transmitted Infections

7:00 p.m. - OPENING RECEPTION

Friday 1 October

Morning

► Inflammation as a common denominator of chronic and infectious diseases

8:30 a.m. - 10:30 a.m.

◆ Chair:

8:30 a.m. – 9:00 a.m.

Claudia MONACO, Kennedy Institute of Rheumatology London, United Kingdom
The inextricable link between atherosclerosis and prototypical inflammatory diseases

9:00 a.m. - 9:20 a.m.

Wei CUI, Peking Union Medical College Hospital in Beijing, China
Improved diagnostic markers for sepsis

9:20 a.m. - 9:40 a.m.

Jean-Yves BONNEFOY, Transgène, Strasbourg, France
Inflammation and targeted immunotherapy

9:40 a.m. - 10:00 a.m.

Aksam MERCHED, INSERM U 828 - Adaptation Cardiovasculaire à l'Ischémie, Pessac, France
Novel lipid mediators for the resolution of vascular inflammation

10:00 a.m. - 10:30 a.m. – ORAL SELECTED PRESENTATIONS

10:30 a.m. - 11:00 a.m. - BREAK - Posters visit– Group picture

► Cardiovascular diseases and gene-environment interactions –

11:00 a.m. - 1:00 p.m.

◆ Chair:

11:00 a.m. - 11:30 a.m.

Steve HUMPHRIES, British Heart Foundation Laboratories, London, UK
Exploring the Genetic architecture of plasma Lipid traits using the 50K cardiometabolic chip

11:30 a.m. – 11:50 p.m.

Mike TSAI, Biochemical Genetics Laboratory, University of Minnesota Medical School, USA
Interaction of lipoxygenase polymorphisms with omega 3 fatty acids and subclinical measurements of CAD

11:50 p.m. – 12:10 p.m.

Danielle HOF, Institute for Clinical Chemistry, University Hospital Zurich, Switzerland
Use of phage display screening for biomarker discovery

12:10 p.m. – 12:30 p.m.

Philippa TALMUD, Centre of Cardiovascular Genetics, University College London, United Kingdom
Utility of genetic and non-genetic risk factors in the prediction of type 2 diabetes: the Whitehall II prospective Cohort Study

12:30 p.m. – 12:50 p.m.

Michel KREMPF, University of Nantes, France
Intestinal absorption of cholesterol: role of natural sterols

1:00 p.m. - 2:00 p.m. - LUNCH

2:00 p.m. - 3:00 p.m. - Posters visit by the poster committee

Afternoon

▶ **Nutrigenomics – Epigenetics - 3:00 p.m. - 5:00 p.m.**

➤ *Chair:*

3:00 p.m. - 3:30 p.m.

Martin KUSSMANN, Nestlé, Lausanne, Switzerland

Nutrigenomics - about mechanisms, efficacy, disposition and programming

3:30 p.m. - 4:00 p.m.

Hannelore DANIEL, University of Munich, Germany

Phenotyping approaches and omics applications in nutrition research

4:00 p.m. - 4:20 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. - 4:40 p.m.

J.L. GUÉANT, INSERM U724 "Genetic nutrition and exposition to environmental risks", Nancy, France

Nutrigenomic mechanisms of the deficiency in methyl donors: experimental based evidences and population studies

4:40 p.m. – 5:00 p.m.

Stephan BECK, University College London, UK

Reverse Phenotyping: Towards an integrated (epi)genomic approach to complex phenotypes and common disease

5:00 p.m. - 5:30 p.m. – **BREAK - Posters visit by the poster committee**

5:30 p.m. - 6:30 p.m. – **FREE COMMUNICATIONS**

George DEDOISSIS, Harokopio University, Athens, Greece

Dietary zinc intake and polymorphisms on fasting blood glucose levels

Evening: GALA DINNER - Awards presentations

Saturday 2 October

Morning

➤ **Fundamental Pharmacogenomics - 8:30 a.m. - 10:30 a.m.**

➤ *Chair:*

8:30 a.m. - 9:00 a.m.

Urs A MEYER, Biozentrum, University of Basel, Switzerland

From drug metabolism to pharmacogenomics

9:00 a.m. - 9:30 a.m.

Wolfgang SADEE, The Ohio State University, Columbus, USA

Regulatory polymorphisms in pharmacogenetic candidate genes: detection through allelic expression imbalance

9:30 a.m. - 9:50 a.m.

George P. PATRINOS, School of Health Sciences, University of Patras, Greece

Transcriptional regulation and pharmacogenomics

9:50 a.m. - 10:10 a.m.

Peter MEIER-ABT, University of Basel, Switzerland

10:10 a.m. - 10:30 a.m.

Winfried SIFFERT, Institute of Pharmacogenetics, University Hospital Essen, Germany
SNPs in genes encoding G Proteins in pharmacogenetics

10:30 a.m. – 11:00 a.m. – BREAK

11:00 a.m. – 12:30 p.m. – FREE COMMUNICATIONS

Afternoon

➔ **Pharmacogenomics in Clinical Practice – Two sessions 2:00 p.m. - 3:45 p.m. and 4:15p.m. - 6:00 p.m.**

- Format: 10 mins presentations, rest of time panel discussion – Round table

➔ **MODERATOR - Felix FRUEH**, Medco Health Solutions, Inc., Bethesda, USA

Changing clinical practice based on evidence generated in real world comparative effectiveness studies: a series of examples

Alberto LAZAROWSKI, Clinical Biochemistry, Buenos Aires University, Argentina
ABC transporters in epilepsy and stroke

Adrian LLERENA, Clinical Research Centre. Extremadura University Hospital and Medical School, 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, University of Chicago, USA
Cardiopharmacogenomics: Applications of Pharmacogenomics in Cardiology

3:45 p.m. - 4:15 p.m. BREAK

➔ **Personalized Medicine and Pharmacogenomics**

MODERATORS

➔ **Alain HURIEZ**, President of the European Personalized Medicine Diagnostics (EPEMED), CEO TcLand Expression, Nantes, France

➔ **Maurizio FERRARI**, President of EUSPM (European Society of Predictive Medicine), Università Vita-Salute San Raffaele, Milan, Italy

Ed ABRAHAMS, The Personalized Medicine Coalition, Washington DC, USA

Nikolaos DRAKOULIS, University of Athens, Greece
Prognostic and Predictive Genetic Biomarkers as tools in drug response

Ron VAN SCHAİK, Rotterdam, The Netherlands
Pharmacogenetics and Transplantation

Vangelis G. MANOLOPOULOS, Democritus University of Thrace, Alexandroupolis, Greece
Genotype-guided dosing of coumarin derivatives: The European Pharmacogenetics of AntiCoagulant Therapy (EU-PACT) Consortium Trial

Steve WONG, Medical College of Wisconsin, Milwaukee, USA
Strengthened the framework of personalized justice for forensic pathology and toxicology