


SAVE THE DATEwww.santoriniconference.org

The 9th Santorini Conference

SYSTEMS MEDICINE AND PERSONALISED HEALTH & THERAPY
« The Odyssey from Hope to Practice »

30 September - 3 October 2018

Nomikos Conference Center, Thira-Santorini / Greece



SPECIAL FOCUS ON CARDIO - METABOLIC DISEASES AND CANCER

STEERING COMMITTEE (SC) & SCIENTIFIC ADVISORY BOARD (SAB)

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* **SC & SAB***Under the auspices of:*

SCIENTIFIC & GENERAL INFORMATION

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With the participation of:



WELCOME / Message from Sofia Siest

Dear colleagues, Dear friends,

It is now time to save the date for our next Conference, **The 9th Santorini Conference**, to be held from **30 September to 3 October 2018** in Santorini, Greece.

Together with a Steering Committee (SC) and a Scientific Advisory Board (SAB) with members across academia, clinics and industry, the 9th Santorini Conference aims to facilitate scientific exchange between basic research, industrial research and medical areas and create more interactions between disciplines around a scientific content towards an effective 'roadmap' for personalised health and therapy.

The title is dealing with Greek mythology in the spirit of the island and of our thematic obstacles to resolve and overcome: ***Systems Medicine, Personalised Health & Therapy. "The Odyssey from Hope to Practice"*** with a special focus on "cardio-metabolic diseases and cancer".

The scientific programme includes 1 session for young researchers' lectures. Two selected posters will be granted with "Gerard Siest" awards: 1 in "-omics" biomarkers and 1 in Pharmacogenomics.

The 9th Conference aims to answer:

- Can genetic screening help identify individuals at greatest risk for cardio-metabolic diseases and cancer?
- What is the greatest clinical need with regard to diagnosis, prediction and patient stratification for these pathologies and how this is/can be addressed?
- Does a genetic risk score identify patients at highest risk and is its use justified in clinical practice?
- What are the challenges of the current clinical trials?
- What about comorbidities with aging?
- What is the impact of pharmacogenomics on:
 - Deliverance of more predictable responses to drug therapy
 - Minimisation of the occurrence and severity of adverse drug reactions
 - Conduction of more cost-effective clinical trials
 - Drug discovery and the drug development process
- Do the existing diagnostic tools answer the needs of pharmacogenomics?

For more information about registration and abstracts' submission please visit the website: www.santoriniconference.org.

We count on you for sending us abstracts for oral or poster presentations and for being with us in Santorini in 2018 under a nice sun and warm weather that fosters an even more creative atmosphere!

Sofia Siest
President of the Santorini Conference series

SCIENTIFIC PROGRAMME

Sunday 30, September

04:00 pm – 06:00 pm – REGISTRATION

06:00 pm – 06:15 pm - WELCOME - [Sofia Siest](#), Nancy, France

06:15 pm – 07:15 pm - KEYNOTE LECTURE

The journey to personalised medicine – landmarks and challenges
Eric Boerwinkle, *Houston, USA*

WELCOME RECEPTION

Monday 1st, October – 09:00 am to 02:00 pm

*09:00 am – 11:00 am - **SESSION I***

‘-OMICS’ BIOMARKERS COMMONALITY IN CARDIO-METABOLIC DISEASES AND CANCER – CAN SEQUENCING OFFER A DIAGNOSIS?

Chairs: [Panagiotis Deloukas](#), London, United Kingdom /

- Metabolomics applied to novel cardiometabolic disease mechanisms and therapeutic targets
Christopher B. Newgard, *Houston, USA*
- The 100,000 Genomes Project- transforming genomics in healthcare
Mark Caulfield, *London, UK*
- The International Cancer Genome project
(TBA)
- Personalised biomarkers in cancer
Eleftherios Diamandis, *Toronto, Canada*

11:00 -12:00 – Coffee Break

11:00 pm – 12:00 pm – COMMITTEE POSTERS VISIT

*12:00 am – 02:00 pm – **SESSION II***

UNMET CLINICAL NEEDS IN THE PREVENTION AND TREATMENT OF CARDIO-METABOLIC DISEASES AND CANCER – COMORBIDITIES

Chairs: [Athanase Benetos](#), Nancy, France /

- Epigenetics of Cardiovascular Diseases and co-morbidities
Manuel Rosa Garrido, *Los Angeles, USA*
- Telomere length and the Cancer/Atherosclerosis trade off
Abraham Aviv, *New Jersey, USA*
- Predicting the risk of Cardiovascular co-morbidities in adult cancer survivors
Winson Y. Cheung, *Vancouver, Canada (TBC)*
- Heart failure, aging and co-morbidities: New therapeutic approaches
Athanase Benetos, *Nancy, France*

02:00 pm – 05:00 pm – FREE TIME

03:00 pm – 05:00 pm – CLOSED MEETING – MAST4HEALTH

04:00 pm – 05:00 pm – COMMITTEE POSTERS VISIT

Monday 1 October – 05:00 pm to 08:00 pm

05:00 pm – 07:00 pm – **SESSION III**

PIPELINE CHALLENGES IN PRECISION MEDICINE – FROM PATIENT SAMPLING TO A CLINICAL REPORT

Chairs: George Dagher, Paris, France /

- From Patient sampling to clinical report – The Austrian experience
Markus Paulmichl, Salzburg, Austria
- Standardized improved pre-analytical workflows: the bridge to good quality samples for reliable analytical test results
Uwe Oelmueller, Hilden, Germany
- Using tissue samples for quantitative protein and phosphoprotein analysis – critical considerations
Karl Friedrich Becker, Munich, Germany
- Challenges in using liquid biopsies for precision medicine
Maria G. Daidone, Milan, Italy

07:00 pm – 08:00 pm – **SESSION IV**

PGX - REGULATORY PERSPECTIVES AND FUTURE TECHNICAL/ANALYTICAL DEVELOPMENTS

Chairs: Markus Paulmichl, Salzburg, Austria / Lynn Webster, Salt Lake City, United States

- EMA Good Pharmacogenomic Practice (GPP) group EMA: Pharmacogenomics Working Party: Relevant new Guidelines
Markus Paulmichl, Salzburg, Austria
- Upcoming Challenges in PGx - Plasmonic biosensing for liquid biopsy applications: the ULTRAPLACAD platform
Giuseppe Spoto, Catania, Italy

9:00 pm – GALA DINNER



Tuesday 2 October – 09:30 am to 02:00 pm

09:30 am – 11:30 am – SESSION V

GENE-ENVIRONMENT INTERACTIONS IN CARDIO-METABOLIC DISEASES AND CANCER

Chairs: Robert Barouki, Paris, France /

- Gene-environment interactions in cardio-vascular diseases: ‘-omics’ and systems biology
Myriam Fornage, *Houston, US*
- A perspective on interaction effects in genetic association studies - Variation in Predictive Ability of Common Genetic Variants by Established Strata: The Example of Breast Cancer and Age
Hugues Aschard, *Paris, France*
- Nutrigenetics in Non-Alcoholic Fatty Liver Disease
Georges Dedoussis, *Athens, Greece*
- Exposome/epigenomics and clinical application
Robert Barouki, *Paris, France*

11:30 am - 12:00 am – Coffee Break

12:00 am – 02:00 pm - SESSION VI

WHAT CAN WE LEARN FROM ELECTRONIC HEALTH RECORDS?

Chairs: Panagiotis Deloukas, London, United Kingdom /

- Using Big Data to interpret genomes to accelerate drug discovery
Rong Chen, *Mount Sinai, US*
- Linking HER to genetic data
Harry Hemingway *London, UK*
- Primary health data in a cohort of over 20,000 people in East London
Richard Trembath, *London, UK*
- Linking genetic data to risk of recurrent cardiovascular events through hospital records
Panagiotis Deloukas, *London, UK*

02:00 pm – 04:00 pm – FREE TIME

Tuesday 2 October - 05:00 pm to 07:00 pm

05:00 pm – 07:00 pm - SESSION VII

PAIN MANAGEMENT - A ‘JOURNEY’ FROM ‘CLINICAL TRIAL’ VIA ‘POST- MARKETING PHARMACOVIGILANCE / RISK MANAGEMENT’ TO ‘SUCCESS STORY’

Chairs: Michael Marschler, Mannheim, Germany / Lynn Webster, Salt Lake City, USA

- The journey starts with “Genetic biomarkers as common denominators for specific pain disorders”
Lynn Webster, *Salt Lake City, USA*
- 1st stop over: “Opioid pharmacogenomics”
Laure Elens, *Brussels, Belgium*
- 2nd stop over: “Pharmacogenomics in Post-Marketing Pharmacovigilance”
Marta Armogida, *Mannheim, Germany*
- End of the journey: “The adoption of Pharmacogenomics leading to patient benefit” **Andrew Purchase**, *Swansea, UK*

07:00 pm – 08:00 pm - YOUNG INVESTIGATORS LECTURES

- 6 x 10 min oral presentations

Wednesday 3 October - 09:00 am to 02:00 pm

09:00 am – 11:00 am - SESSION VIII

PHARMACOGENOMICS: CHALLENGES OF CLINICAL TRANSLATION

Chairs: Urs Meyer, Basel, Switzerland / Charity Nofziger, Salzburg, Austria

- Safety of drug treatment in oncology: A genomic perspective
Federico Innocenti, Chapel Hill, USA
- Technical Challenges in CYP2D6 analysis
Charity Nofziger, Salzburg, Austria
- Pharmacogenomics – A paradigm for digital medicine
Urs A. Meyer, Basel, Switzerland
- Taking biomarkers from discovery to implementation in clinical practice
Munir Pirmohamed, Liverpool, UK

11:00 am - 11:30 am – Coffee Break

11:30 am – 01:30 pm - SESSION IX

LATEST INSIGHTS IN STROKE: CLINICAL TRIALS AND APPLICABILITY OF ‘-OMICS’ DATA IN PATIENT’S STRATIFICATION

Chairs: John Lamont, Belfast, United Kingdom /

- Genetics of cerebrovascular disease
Stéphanie Debette, Bordeaux, France
- ‘-Omics’ determinants of subclinical stroke events
Sudha Seshadri, Boston, US
- Stroke and pharmacogenomic's
Guillaume Pare, Hamilton, Ontario, Canada
- Protein Biomarkers and diagnosis of ischemic stroke
Konstantinos Makris, Athens, Greece

01:30 pm – 02:00 pm

CONCLUSIONS & PERSPECTIVES REMARKS

by **Sofia Siest**, Nancy, France and **Urs Meyer**, Basel, Switzerland



Location

Petros Nomikos Center – Thira - Greece



Souvenirs Santorini conference 2016





Ithaca – Konstantinos Kavafis (1863 – 1933)

When you set out on your journey to Ithaca,

pray that the road is...

full of adventure, full of knowledge...

That the summer mornings are many, when,

with such pleasure, with such joy you will enter ports seen for the first time...

Always keep Ithaca in your mind.

To arrive there is your ultimate goal...