26th International Conference on Laboratory Medicine and Pathobiology: An Expert forum on Innovation in Clinical and Laboratory Medical Sciences

July 7-12, 2023, Sitia, Ag. Nikolaos, Crete Island, Greece

ISE 2023

Under the auspices of the: International Society for Enzymology
CONTENTS

Scientific Programme

Invited Speakers’ Abstracts

Poster Abstracts
Friday, 7th July 2023

15:00 - 17:00. Registration – Information

17:00 – 20:00. Poster Section (Viewing and Discussion)
Saturday, 8th July 2023

Opening Ceremonies: 17:00 - 17:15

Session I: Coordinators:
Andreas Scorilas & George Yousef

17:15 - 17:30. The Other Side
Eleftherios Diamandis
Toronto, Canada

17:30 - 18:00. Predictive genomic medicine and very precocious early diagnosis should be the new pathways to ameliorate medical care: a revolutionary proposal.
Francesco Salvatore
Naples, Italy

18:00 - 18:30 BREAK

Session II: Coordinators:
Andreas Scorilas & Michael Oellerich

18:30 - 19:00. The introduction of Hemoglobin A1c, HbA1c caused an increase in mortality rate in Danish diabetes 2 patients
Ivan Brandslund
Vejle, Denmark

19:00 - 19:30. Natural killer cells and cancer treatment
Torben Frøstrup Hansen
Vejle, Denmark

19:30 - 20:00. Questions & Discussion
Session III: Coordinators: George Yousef & Torben Frøstrup Hansen

10:00-10:30. Liquid biopsy in cancer and transplantation
Michael Oellerich
Gottingen, Germany

10:30-11:00. Amyloidosis: how proteomics can make a difference in clinical practice
Julie Courraud
Athens, Greece

11:00 - 11:30 Questions & Discussion

11:30 -12:00 BREAK (e-poster viewing)

Session IV: Coordinators: Ivan Brandslund & Mirette Hanna

Margaret Fahnestock
Hamilton, Canada

12:30 -12:50. Epitranscriptomics: A novel regulatory layer of gene expression in breast cancer
Panagiotis Tsiakanikas
Athens, Greece

Panagiotis Adamopoulos
Athens, Greece

13:15-13:35. Identification of SARS-CoV-2 variants using a high throughput sequencing approach

Marios A. Diamantopoulos
Athens, Greece

13:35 - 14:00 Questions & Discussion

14:00 - 15:00 (Poster viewing)
Session V: Coordinators: 
Margaret Fahnestock & Panagiotis Adamopoulos

10:00 - 10:30. Computational Pathology: Learning to Surf the Waves. 
George Yousef 
Toronto, Canada

10:30-11:00. Pediatric Transfusion - Dependent Thalassemia Patients: What Can We Do Better? 
Mirette Hanna 
Toronto, Canada

11:00 - 11:30. Questions & Discussion

11:30 -12:00 BREAK

Session VI: Coordinators: 
Francesco Salvatore & Andreas Scorilas

12:00-12:30. Tissue organoids as a tool for cancer precision medicine. 
Federica Di Maggio 
Naples, Italy

12:30-12:50. Unveiling the transcriptional profile of tumour suppressor PTEN gene in human malignancies through a Hybrid-seq approach 
Michaela Boti 
Athens, Greece

12:50 - 13:15. Questions & Discussion

13:15 -15:30 BREAK
Session VII: Coordinators:
Andreas Scorilas & Panagiotis Adamopoulos

15:30-16:00 Intratumour Heterogeneity as a Biomarker for Breast Cancer Progression
Susan J. Done
Toronto, Canada

16:00 -18:00 ISE workshop (onsite and online)
Recent advances in massive parallel sequencing technologies.

Konstantina Athanasopoulou
Tuesday, 11th July 2023

**Session VIII:** Coordinators:  
Andreas Scorilas & Panagiotis Adamopoulos

**10:00-10:30.** Validation of new personalized cancer biomarkers.  
**Ioannis Prassas**  
Toronto, Canada

**10:30-11:00.** Copy number alteration in cell-free DNA: analysis in bladder cancer PDXs and patients’ cohorts.  
**Margaritis Avgeris**  
Athens, Greece

**11:00 - 11:30.** Questions & Discussion

**11:30 -12:00 BREAK**

**Session IX:** Coordinators:  
Margaritis Avgeris & Marios A. Diamantopoulos

**12:00-12:30.** Nanopore sequencing unveils novel circular transcripts of apoptosis-related genes in human leukemic cells.  
**Christos Kontos**  
Athens, Greece

**12:30-12:55.** Exploring the differential effects of GS32 compound from Olea europaea on gene expression and pathway modulation in tumor vs. normal human cells  
**Paraskevi Karousi**  
Athens, Greece
Katerina Pilala  
Athens, Greece

13:20-13:45. Harnessing pre-operative cell-free DNA (cfDNA) levels clinical utility in bladder cancer prognosis  
Marilia Papadimitriou  
Athens, Greece

13:45 - 14:15. Questions & Discussion

14:15 - 17:00 Poster Viewing and Poster Discussion
Session X: Coordinators:
Andreas Scorilas, George Yousef, Ioannis Prassas & Eleftherios Diamandis

10:00-10:30. Closing Remarks of the ISE2023 – the ISE2024 meeting

10:30-11:00. Questions & Discussion

11:00 - 13:00. Poster viewing and discussion

13:00-16:00. ISE Board meeting