23th ISE International Conference on Laboratory Medicine and Pathobiology

An Expert forum on Innovation in Clinical and Laboratory Medical Sciences

June 29 – July 3, 2019
Chios Island, Greece

ISE 2019

Under the auspices of the:

International Society for Enzymology

International Federation of Clinical Chemistry and Laboratory Medicine

National and Kapodistrian University of Athens
Acknowledgements:

- Special Account for Research Grants, National and Kapodistrian University of Athens.
Organizing Committee:
Diamandis E.P, Scorilas A

Local:
Scorilas A, Avgeris M, Kontos C.K,
Adamopoulos P.G, Diamantopoulos M, Panoutsopoulou K,
Papachristopoulou G, Tsiakanikas P.

International Scientific Committee:
Adeli K. (Toronto, Canada)
Acan L. N. (Ankara, Turkey)
Boyages S.C. (Sydney, Australia)
Brandslund I. (Vejle, Denmark)
Diamandis E.P. (Toronto, Canada)
Fahnestock M. (Hamilton, Canada)
Garbis S. (Caltech, Pasadena, CA, USA)
Jarolim P. (Boston, USA)
Oellerich M. (Gottingen, Germany)
Plebani M. (Padova, Italy)
Prassas I. (Toronto, Canada)
Salvatore F. (Naples, Italy)
Scorilas A. (Athens, Greece)
Yousef G.M. (Toronto, Canada)
Dear Colleagues

Following the successful International Society for Enzymology Annual Conference 2018 in the island of Naxos, Greece, we are now announcing the next ISE Annual Conference, entitled "The 23th ISE International Conference on Laboratory Medicine and Pathobiology: An Expert forum on Innovation in Clinical and Laboratory Medical Sciences". The conference will take place in the nice island of Chios, Greece, between the dates Saturday June 29 - Wednesday July 3, 2019. Chios Island is a very beautiful and interesting place with exceptional beaches, medieval villages and long history. The conference will be held at the Golden Sand Hotel on the Karfas beach.

As usual, the guiding principles of this Annual Conference are: Top science related to all aspects of laboratory medicine, in a wonderful location, with a limited number of participants. The ISE2019 conference will cover a wide range of themes including, but not limited to: New biomarkers for cancer and other diseases, informatics, automation, genomics, proteomics, epigenomics, transcriptomics, other omics, enzymes in health and disease, theranostics, micro RNAs, long non-coding RNAs, quality assurance, patient safety and harmonization. Presentations on specific diseases are also welcome.

As last year, the meeting will be restricted to a maximum of 50 registrants, on a first-come-first served basis. All participants will be responsible for their expenses and will be invited to present on a topic of their choice, if they wish, as time permits. The meeting expenses will be covered from the registration fees. Spouses and other family members are also welcome.

Please take time to visit the old city of Chios and its surroundings as well as some of the island’s wonderful beaches and villages. You may also combine your trip with a stop in Athens.

We are looking forward to seeing you, your colleagues and your families in Chios for a wonderful scientific meeting and an overall enjoyable experience.

Information:  http://ise.biol.uoa.gr

With best wishes
Sincerely,
The Organizers:

Dr. Eleftherios P. Diamandis
Dr. Andreas Scorilas
CONTENTS

Scientific Programme

Invited Speakers’ Abstracts

Poster Abstracts
Day 1-Saturday, 29th June 2019

15:00 - 17:30 Registration

17:30 - 18:00 Opening Ceremonies
Eleftherios P. Diamandis & Andreas Scorilas

18:00 - 18:30 History of Chios Island (I. Prassas)

18:30 - 19:00 Rock and Roll Game Quiz (E.P Diamandis)

19:00 - 19:30 Opening Mixer
Day 2-Sunday, 30th June 2019

**Session I:** Coordinators:
Andreas Scorilas & George Yousef

09:30 - 09:50. *Cancer Immunotherapy biomarkers*
Eleftherios P. Diamandis

09:50 - 10:10. *Artificial Intelligence meets robotics*
Ivan Brandslund

10:10 - 10:50 Questions & Discussion

10:50 - 11:30 BREAK (e-poster viewing)

**Session II:** Coordinators:
Ivan Brandslund & Maria Valeria Esposito

11:30 - 11:50. *The changing paradigm between ageing and diseases*
Francesco Salvatore

11:50 - 12:10. *Value proposition for advanced molecular diagnostics in cancer*
Michael Oellerich

12:10 - 13:00 Questions & Discussion

13:00 - 16:00 Lunch
Day 3-Monday, 1st July 2019

Session IV: Coordinators: Petr Jarolim & Spiros Garbis

09:30-09:50. Cardiac biomarkers: from diagnosis to risk prediction
   Mario Plebani

09:50-10:10. Retrograde axonal transport of neurotrophins in aging and Alzheimer’s disease
   Margaret Fahnestock

10:10 - 10:50 Questions & Discussion

10:50 -11:30 BREAK (e-poster viewing)

Session V: Coordinators: Mario Plebani & Margaritis Avgeris

11:30-11:50. High sensitivity cardiac troponin assays in the clinical laboratories
   Petr Jarolim

11:50-12:10. Quantitative Phosphoproteomics Dereplicates Pharmacology of Leucettine analogue L41 on the correction of cognitive deficits in Down Syndrome mouse models
   Spiros D. Garbis
Day 3-Monday, 1st July 2019

12:10-12:30 Looking away from the PSA: The proteomics quest for precision biomarkers in prostate cancer.

Nina Fanaropoulou

12:30-13:00 Questions & Discussion

13:00 – Free afternoon
Day 4-Tuesday, 2nd July 2019

**Session VI:** Coordinators: George Yousef & Ioannis Prassas

09:30 - 09:50. The Beetroot, the Camel and the Prius: A Modern Understanding of Diabesity  
**Steven Boyages**

09:50 - 10:10. Postprandial Dyslipidemia: A Major Complication of Obese and Diabetic States  
Translational Studies in Healthy and Obese Adolescents  
**Khosrow Adeli**

10:10 - 10:50. Questions & Discussion

10:50 - 11:30 BREAK (e-poster viewing)

**Session VII:** Coordinators: Francesco Salvatore & Panagiotis Adamopoulos

11:30-11:50. History of cancer immunotherapy  
**Naciye Leyla Acan**

**Margaritis Avgeris**

12:10 - 13:00. Questions & Discussion

13:00 - 16:00 BREAK (e-poster viewing)
Session VIII: Coordinators: Khosrow Adeli & Steven Boyages

16:00-16:20. Translational Laboratory Medicine
George Yousef

Panagiotis Adamopoulos

16:40-17:00. Developing novel KLK-based skin therapeutics
Ioannis Prassas

17:00 - 17:30 Questions & Discussion
**Session IX**: Coordinators:
Andreas Scorilas & Eleftherios Diamandis

09:30-10:00. Closing Remarks of the ISE2019 – the ISE2020 meeting

10:00-10:30. Questions & Discussion

10:30-13:00. ISE Board meeting