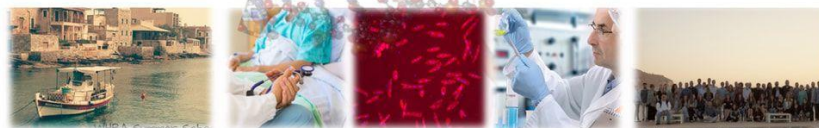




World  
Hellenic  
Biomedical  
Association  
WHBA, Inc.

## 10th International Summer School in Medical Biosciences Research & Management May 15-21, 2022

[www.whba1990.org](http://www.whba1990.org)



Under the auspices of



HELLENIC REPUBLIC  
MINISTRY OF FOREIGN AFFAIRS  
GENERAL SECRETARIAT FOR GREEKS ABROAD AND  
PUBLIC DIPLOMACY

### Organizing Committee

#### Co-chairs

**Petros Grivas** (University of Washington, USA)

**Thales Papagiannakopoulos** (New York University, USA)

#### Junior members

**Despoina Eugenia Kiouisi** (WHBA Summer School Class of 2020)

Currently: PhD Candidate, Democritus University of Thrace

**Angelos Kollias** (WHBA Summer School Class of 2021)

Currently: Master's Student, National and Kapodistrian University of Athens

**Christos Lisgaras** (WHBA Summer School Class of 2014 & 2015)

Currently: Post-doctoral Fellow, New York University Langone Health

**Marilena Melas** (WHBA Summer School Class of 2020)

Currently: Assistant Clinical Lab Director, New York Genome Center

**Christina Niavi** (WHBA summer school 2019)

Currently: PhD candidate, Emory University

**Efrosini Tsouko** (WHBA Summer School Class of 2014)

Currently: Post-doctoral research associate, Baylor college of Medicine

## Sunday May 15, 2022

6:30 – 8:00 pm **OPENING CEREMONY**

Welcoming Remarks by the Organizing Committee, the President of the WHBA Executive Board, **Eleftheria Ledaki**, and the Secretary General for Greeks Abroad & Public Diplomacy, **John Chrysoulakis**

### “The Roy & Diana Vagelos Opening Lecture”

**Dr. Elisa Konofagou (Columbia University, USA), VIRTUAL**

**Harnessing the best of ultrasound - imaging, theranostics and therapeutics**

Introduction by: Christos Lisgaras

8:00 pm

**DINNER sponsored by WHBA**

## Monday May 16, 2022

8:00 – 8:30 am “Introduction to Grant Writing”

8:30 – 10:00 **Immunology seen by different lenses**  
**The promises and challenges of personalized neoantigen vaccines for cancer**  
Peter Katsikis, Erasmus University Medical Center,  
**Linking genotype, phenotype and function of immune repertoires**  
Alexander Yermanos, ETH Zurich & University of Geneva

10:30 – 12:00 **Innovative immunotherapeutic applications**  
**The Epitranscriptome - RNA modifications in health and disease**  
F Nina Papavasiliou, University of Heidelberg  
**Immune regulation in infectious disease and cancer**  
Filippos Porichis, EMD Serono-Merck KGaA

12:00 – 2:00 pm LUNCH/NETWORKING

2:00 – 3:30 **Immune Tolerance in Health and Disease**  
Panagiotis Verginis, University of Crete  
**MicroRNAs as therapeutics**  
Erietta Stelekati  
University of Miami, **VIRTUAL**

4:00 – 4:45 **Principles of neural computation and navigation**  
Dora Angelaki, New York University, **VIRTUAL**

4:45 – 5:30 **Structural Biology in the AlphaFold era: understanding mechanisms and designing new pharmaceuticals**  
Anastasis Perrakis, Netherlands Cancer Institute and Utrecht University, **VIRTUAL**

5:30 – 6:00 QUIZ

6:30 – 8:00 MEET THE PROFESSORS

8:00 – 10:00 DINNER/NETWORKING

## Tuesday May 17, 2022

8:00 – 10:00 am **Precision Oncology/Laboratory Genomics**  
Florentia Fostira, NCSR “Demokritos”  
**Molecular profiling of solid tumors in the era of NGS**  
George Nasioulas, CSO, GeneKor MSA

10:30 – 12:00 **Journey in Science (challenges, conflicts, difficult situations)**  
For Physicians  
For Biomedical scientists

12:00 – 2:00 pm LUNCH/NETWORKING

2:00 – 3:30 **Precision medicine approaches to target cancer metabolism**  
Thales Papagiannakopoulos, New York University  
**Metabolism in hematopoiesis and leukemia**  
Michalis Agathokleous, University of Texas Southwestern  
Medical Center, **VIRTUAL**

4:00 – 4:45 **Epigenetics, 3D Genome Organization,**  
Aristotelis Tsigos, NYU Langone Health

4:45 -5:30 **Illuminating Hsp90's Selection Shadow**  
Georgios Karras, MD Anderson Cancer Center

5:30 – 6:00 QUIZ

6:30 – 8:00 MEET THE PROFESSORS

8:00 – 10:00 DINNER/NETWORKING

## Wednesday May 18, 2022

- 8:00 – 10:00 am **Grant writing Mentoring Sessions**
- 10:30 – 12:00 **Sex Differences in Neurobiology and Disease**  
Christina Dalla, University of Athens  
**Towards Precision Psychiatry in Serious Mental Illness,**  
Panos Roussos, Mount Sinai
- 12:00 – 2:00 pm LUNCH/NETWORKING
- 2:00 – 4:00 **Normal aging and Neurodegeneration**  
**Neurovascular Interactions: Mechanisms, Imaging,**  
**Therapeutics**  
Katerina Akassoglou, UCSF  
**SuperAging: Youthful Brains in Aging**  
Alexandra Touroutoglou, Harvard Medical School
- 4:00 – 6:00 **WHBA Alumni Science Forum**  
*Hear about the latest science that WHBA Alumni are doing!*  
*Highlighting career opportunities in academia and outside*  
*academia.*  
**Closed-loop optogenetics in Epilepsy and Alzheimer's**  
**Disease**  
Christos Lisgaras, New York University Langone Health, **VIRTUAL**  
Christina Niavi, Emory University and Emory Vaccine center  
Marilena Mela, New York Genome Center  
Maria Aivalioti, Regeneron, **VIRTUAL**  
**Chronic Stress Induces Microglial-Mediated Inflammatory**  
**Responses and Compromises the Oligodendroglial &**  
**Neuronal Homeostasis Leading to Depression**  
Alexandros Kokkosis, Regeneron
- 6:30 – 7:00 QUIZ
- 7:30 – 9:00 MEET THE PROFESSORS
- 9:00 – 11:00 DINNER/NETWORKING

## Thursday May 19, 2022

- 8:00 – 10:00 am **How to excel in interviews, CV/Personal statement**  
**writing**
- 10:00 – 12:00 **Computational Biomedicine**  
**Understanding the structure of data: a self-**  
**organised journey in data science and AI**  
Dimitris Agrafiotis, Pfizer  
**Single-cell dissection of human disease circuitry**  
Manolis Kellis, MIT
- 12:00 – 2:00 pm LUNCH/NETWORKING
- 2:00 – 3:30 **Drug Discovery/Design**  
**Discovery, inhibition, and resistance mechanisms**  
**of antivirals targeting HIV and SARS-CoV-2**  
Stefan Sarafianos, Emory University School of  
Medicine  
**Leveraging AI to transform delivery of**  
**cardiovascular care: real life experience from a**  
**single Center**  
Efsthathia Andrikopoulou, UAB Medicine, **VIRTUAL**
- 4:00 - 5:00 **Targeted cancer therapies: from resistance**  
**mechanisms to next generation strategies**  
Poulikos Poulikakos, Mount Sinai  
**Targeting cell death for novel therapeutics**  
**development**  
Evriss Gavathiotis, Albert Einstein College of Medicine
- 5:00 - 5:30 **Rapid selection, characterization and clinical**  
**development of fully-human antibodies against**  
**emerging infectious diseases**  
Christos Kyratsous, Regeneron, **VIRTUAL**
- 6:00 – 6:30 QUIZ
- 7:00 – 8:30 MEET THE PROFESSORS
- 8:30 – 10:30 DINNER/NETWORKING

## Friday May 20, 2022

8:30 – 10:00 am **Tumor & Host Biomarkers and Therapeutics of Genitourinary Cancers**  
**Biomarkers and the pursuit of patient selection for the treatment of patients with urothelial cancer**  
Petros Grivas, University of Washington  
**Biomarkers and the pursuit of patient selection for the treatment of patients with early stage urothelial and prostate cancer**  
John Sfakianos, MD, Icahn School of medicine at Mount Sinai

10:30 – 12:00 **Grant writing (1 page) - Presentations**

12:00 – 2:00 pm LUNCH/NETWORKING

2:00 – 3:30 **Tumor microenvironment, Microbiome**  
**Engineering the tumor microenvironment**  
Ioannis Zervantonakis, University of Pittsburgh, **VIRTUAL**  
**Understanding how commensals shape immunity**  
Michael Constantinides, Scripps Research

4:00 – 5:30 **Imaging Session**  
**Fast 3D tissue Clearing in Age Related Memory Loss and other disciplines**  
Stylianos Kosmidis, Columbia University

6:00 – 7:30 **Cardiovascular session**  
**Understanding the molecular causes of NAFLD using animal models and transcriptomics**  
Dimitris Kardassis, University of Crete  
**Cardiac and systemic metabolic regulation**  
Costas Drosatos, University of Cincinnati

7:30 – 8:00 QUIZ

8:00 – 9:30 **“Distinguished Lecture”**  
Elias Mossialos, London School of Economics, **VIRTUAL**

**Closing Keynote Lecture**  
**George Gaitanaris**, Omeros Corporation, **VIRTUAL**  
**Roberto Ciccocioppo**, University of Camerino

Introduction: Petros Grivas

## Saturday May 21, 2022

8:00 – 9:00 am **How to make science better (DEI, Advocacy, Communication)**

9:00 – 10:00 CLOSING SESSION

### STUDENTS AWARDS

*presented by John Chrysoulakis, Secretary General for Greeks Abroad & Public Diplomacy*

### GROUP PHOTO