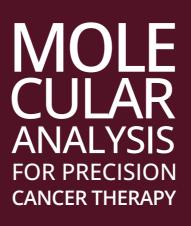
2025

Anticancer Research Support Association (ARSA)



Assays - Challenges in analysis, reporting and interpretation of results-Integration in Clinical practice

21-22 February 2025

LABORATORY of TRANSLATIONAL ONCOLOGY Director : Prol. D. MAVROUDIS



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Professor of Medical Oncology Department of Medical Oncology University General Hospital of Heraklion Laboratory of Translational Oncology, School of Medicine, University of Crete

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Research Assistant Despoina Aggouraki, MSc

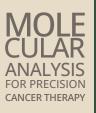
Technicians Georgia Saloustrou

PhD students

Chara Koutoulaki, BSc Konstantinos Vogiatzoglou, MSc Sofia Chatziavraam, BSc



We are delighted to welcome you to the second **Molecular Analysis for Precision Cancer Therapy Workshop 2025**, organized by the Laboratory of Translational Oncology in collaboration with the Department of Medical Oncology at the University General Hospital of Heraklion.



The rapidly advancing field of molecular oncology enabled the identification of novel biomarkers and therapeutic targets and transformed cancer care. In this dynamic landscape, the role of medical oncologists has expanded significantly. Nowadays, oncologists must possess a robust understanding of the molecular mechanisms of disease and of advanced analytical methods to effectively interpret current knowledge into effective cancer treatment plans.

This year's workshop is designed to address these needs, featuring a comprehensive program tailored specifically for young oncologists and researchers. Participants will gain valuable insights into key cancer genetics concepts and tumor profiling approaches while exploring cutting edge methods in biomarker testing and their clinical applications. Additionally, the program will delve into transformative innovations such as tumor-agnostic therapies and antibody-drug conjugates (ADCs), highlighting their critical roles in shaping the evolving landscape of precision oncology.

We look forward to a workshop filled with opportunities for knowledge-sharing and the development of valuable collaborative networks.

Prof. Sofia Agelaki Prof. Dimitrios Mavroudis

The Laboratory of Translational Oncology, has been established at the Faculty of Medicine, University of Crete (UoC) and operates in close collaboration with the Department of Medical Oncology, University General Hospital of Heraklion to bridge translational and clinical research activities.

The Department of Medical Oncology (DMO) is the reference center for patients with cancer for the area of Crete, Greece, since it receives approximately 1.000 new cancer patients per year and follows more than 10.000 cancer patients. The mission of the DMO is to provide clinical care to patients with cancer, to perform basic and clinical research, and to provide education and training to the next generation of scientists who are focused on the biology and treatment of cancer.

In the Laboratory of Translational Oncology (LTO) clinical and translational researchers and clinical oncologists interact, collaborate, and pool their expertise towards advancing cancer care and research. The Laboratory has all the equipment needed for its research activities aiming for a better understanding of the molecular mechanisms underlying cancer development and progression and for the development of novel issue and liquid biopsy-based prognostic and predictive biomarkers to advance precision medicine in Oncology.

LTO is part of the Hellenic Molecular Oncology Network (EDIMO), with the aim to enhance the prevention, diagnosis, and treatment of cancer patients and to develop new techniques for personalizing health care services offered to cancer patients.

LTO has actively participated in several EU-funded projects, as well as in National funded research projects.

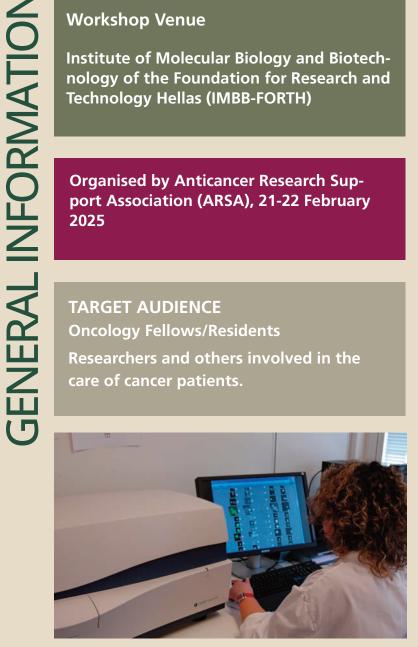


Workshop Venue

Institute of Molecular Biology and Biotechnology of the Foundation for Research and **Technology Hellas (IMBB-FORTH)**

Organised by Anticancer Research Support Association (ARSA), 21-22 February 2025

TARGET AUDIENCE **Oncology Fellows/Residents** Researchers and others involved in the care of cancer patients.



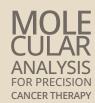




CME Accreditation



This course has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 16 European CME credits (ECMEC®s).



T	A. M. Abajo Guijarı S. Agelaki	ro Regional Medical Affairs Director Oncology, Daiichi Sankyo Europe Professor of Medical Oncology, Department of Medical Oncology, University General Hospital of Heraklion, Laboratory of Translational Oncology, School of Medicine, University of Crete
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	V. Bozionelou	Medical Oncologist, University General Hospital of Heraklion
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	Anatomy, Attikon University General Hospital, Medical School, National and
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C. Stratakis	and Technology - Hellas (FORTH)
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	Katherine Russell Dixie Distinguished Endowed Professor, MD Anderson Cancer Center,
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N. Vardakis	Medical Oncologist, University General Hospital of Herakilon
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G. Zarkavelis	Medical Oncologist, University Hospital of Ioannina, Ioannina, Greece
C. Zioudas	Oncology Resident, Department of Medical Oncology, University General Hospital
	of Heraklion
V. Zoumpourlis	Research Director, National Hellenic Research Foundation (NHRF)

Meeting at Auditorium "Georgios Lianis", FORTH Main Building

08:30 - 09:00 Welcome

09:00 - 10:00 Introduction to Basics D. Mauri, D. Mavroudis

- 09:00 09:30 Historical retrospection in the research of the genetic basis of cancer V. Zoumpourlis
- 09:30 10:00 The hallmarks of cancer I. Keklikoglou

10:00 - 10:30 Keynote Lecture P. Theodoropoulos, D. Mauri

- Cancer stem cells and Precision Oncology S. Baritaki
- 10:30 12:00 Currently available sequencing technologies for the Identification of Targetable Molecular Alterations in Cancer A. Saetta, A. Magklara
- 10:30 10:45 Types of molecular alterations and their relevance in oncology K. Michaelidou
- 10:45 11:00 Next Generation Sequencing (terminology, platforms, chemistry) G. Tsaknakis
- 11:00 11:20 Analysis of sequencing results: Biological and clinical classification of genetic variants E. Tzagkaraki
 - day 1 Friday • Quality assessment of NGS testing F. Papageorgiou Discussion

12:00 - 12:30 Coffee Break

12:30 - 13:30 Tumor Sequencing in the clinic E. Linardaki, A. Magklara • The NGS report: structure and minimal content requirements 12:30 - 12:45 A. Saetta • Recommendations on the use of NGS for patients with metastatic 12:45 - 13:05 cancer in 2024 I. Stoupis • The ESMO Scale for Clinical Actionability of molecular Targets (ESCAT) 13:05 - 13:20 M. Georgiadou Discussion 13:20 - 13:30 13:30 - 14:00 Keynote Lecture D. Mavroudis • The Implementation of Precision Oncology in HealthCare C. Stratakis 14:00 - 15:00 Lunch break 15:00 - 16:15 Liquid Biopsy in the Clinic E. Chatzaki, S. Agelaki • Recommendations on the use of ctDNA analysis in clinical 15:00 - 15:20 decision-making G. Zarkavelis Reporting of molecular test results from cell-free DNA analyses: 15:20 - 15:40 Expert consensus recommendations from the 2023 European Liquid Biopsy Society ctDNA workshop S. Agelaki Clinical significance of circulating tumor cells (CTCs) in patients 15:40 - 16:00 with solid tumors M. Papadaki, S. Chatziavraam

Discussion 16:00 - 16:15

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16:15 - 17:05 Keynote Lectures S. Agelaki, A. Chatzaki

- Circulating Tumor DNA: Advances, Pitfalls and Opportunities S. Joosse 16:15 - 16:45
- · Analysis of circulating tumor DNA in early breast cancer: methodologies 16:45 - 17:05 and clinical utility A. Magklara

17:05 - 17:15 Coffee break

Workshop

17:15 - 19.30 How to read an NGS report: Tips for oncologists in clinical

practice A. Saetta, A. Magklara, S. Agelaki

Trainers: G. Zarkavelis, I. Papadopoulou, E. Tzagkaraki, E. Vorgia, K. Michaelidou, K. Svoliantopoulos, Ch. Zioudas

Organizing Team: K. C. Fotsitzoudis, M. Kamaratou, A. Kyriakidou, D. Lydaki

Trainees: S. Chrysoglou, M. Giannakakou, Ch. Karachalios,

V. Keramisanou, V. Kolintzikis, E. Koustas, K. Lallas, Ch. Laspa,

- E. Marton, A. Michas, M. Moutafi, N. Syrigos, S. Talagani,
- J. Trontzas, A. Svarna, V. Tzouda, E. Zazas, M. Yerolatsite

	Targeting hormone receptors in cancer (I) E. Saloustros, K. Kalbakis
	 Advances in Estrogen Receptor Signaling and Biology K. Thomopoulou
	 Personalizing therapy for Hormone Receptor (HR)-Positive, HER2-Negative Metastatic Breast Cancer M. Vasilakopoulou
	Next generation anti-estrogen agents under development A. Ma Discussion
	Targeting hormone receptors in cancer (II)N. Androulakis, N. Vardakis
	Current advances in targeting AR: Biology of the receptor and the importance of ARI's structure D. Papanikolaou
	ADTs in castration sensitive metastatic prostate cancer therapy: main efficacy results E. I. Perdikouri
	Discussion
5 - 11:45	Keynote Lecture D. Mavroudis Unlocking the potential of ADCs A. M. Abajo Guijarro, F. Tsokanos
	Coffee Break
	day 2 Saturday

12:15 - 13:30	Tumor-agnostic therapeutics: an expanding landscape
	P. Economopoulou, I. Bompolaki
12:15 - 12:35	 Tumor-agnostic targets and clinical targeting (I): NTRK inhibitors,
	BRAF V600E, HER2 A. Boukouris
12:35 - 12:55	Tumor-agnostic targets and clinical targeting (II): RET fusions, TMB,
	dMMR S. Manolakou
12:55 - 13:15	ESMO Tumor-Agnostic Classifier and Screener (ETAC-S) M. Rovithi
13:15 - 13:30	Discussion
13:30 - 14:30	Rare Targets: ALK L. Vamvakas, E. Kontopodis, A. Koutsopoulos
13:30 - 13:50	Testing for ALK rearrangements: challenges and pitfalls A. Spathis
13:50 - 14:10	Key factors that determine treatment choice D. Nasi
14:10 - 14:30	• Management of adverse drug reactions with ALK inhibitors P. Karadaglis
14:30 - 15:30	Lunch break
15:30 - 16:20	Tumor-agnostic therapies: A paradigm shift in oncology
	S. Agelaki, A. Koutsopoulos
15:30 - 15:55	 Challenges in tissue agnostic therapeutics N. Karachaliou Tumor-agnostic oncology: transforming clinical trial design A. Tsimberidou
15:55 - 16:20	• Turnor-agnostic oncology. transforming clinical that design A. Tsimberidou
16:20 - 16:30	Discussion and Conclusions
16:30 - 18:00	Molecular tumor board: Interesting Cases
	G. Zarkavelis, A. Saetta, F. Fostira
16:30 - 16:48	CASE1: A patient with VHL mutant paraganglioma D. Lydaki
16:48 - 17:06	CASE2: A patient with colorectal cancer and MUTYH-Associated Polyposis
	M. Papadakis
17:06 - 17:24	• CASE3: Loss of heterozygosity in a patient with sarcoma M. Yerolatsite
17:24 - 17:42	CASE4: A patient with an exon 20 EGFR mutation M. Kamaratou
17:42 - 18:00	Discussion

Workshop

18:00 - 19:30 Organizing Team: K. C. Fotsitzoudis, G. Koronakis, A. Kyriakidou, M. Papadakis, K. Svoliantopoulos, Ch. Zioudas

Trainees: S. Chrysoglou, M. Giannakakou, Ch. Karachalios,

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- A. Svarna, V. Tzouda, E. Zazas, M. Yerolatsite

Open discussion with participants

Laboratory of Translational Oncology, University of Crete, Greece 2025

INFO: https://oncopog.com