

Workshop

Applying multimodal liquid biopsy: from Prognostic to Prediction

Program



13th of June - Venue: CIEMAT, Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, Madrid



Liquid biopsy is a cutting-edge technique in personalized medicine that allows the diagnosis, monitoring and treatment of cancer in a non-invasive manner. Given its rapid advancement, it is crucial to organize activities that update and strengthen the technical competencies of the professionals involved in their development and implementation. For this reason, the **CIBERONC Liquid Biopsy Work Module** organizes a workshop specializing in technical aspects of liquid biopsy and the new analysis strategies that are opening new lines of research in localized tumors.

Workshop Objectives

- 1 Update knowledge:** To present the latest advances in liquid biopsy technologies, including analytical platforms, bioinformatics tools and data interpretation methods. Special emphasis will be new technologies with application in localized tumors will be emphasized.
- 2 Encourage collaborations:** Facilitate the exchange of experiences between international and local experts, promoting synergies and joint projects.
- 3 To strengthen technical competencies:** To offer practical details that will allow attendees to apply the knowledge acquired in their work environments.

9:45 – 10:00

Welcome and registration

10:00 – 10:45

SESSION 1: Standardization and accreditation in circulating biomarkers

Chairs

Silvia Calabuig, FIHGUV, CIBERONC

Javier Hernández, VHIO, CIBERONC

10:00 – 10:15

Key issues for a successful characterization of circulating biomarkers.

Umberto Malapelle, University of Naples Federico II, Italy. **ONLINE**

10:15 – 10:30

Minimal requirements for ctDNA testing accreditation in solid tumors.

Atocha Romero, Hospital Puerta del Hierro, Madrid.

10:30 – 10:45

Discussion

10:45 – 11:15

SESSION 2: Short Talks: New technologies and applications

Chairs

María Eugenia Sarasquete, HUS, CIBERONC

Laura Muinelo, CHUS, CIBERONC

10:45 – 10:55

Cell-free RNA biomarkers: versatility in early cancer detection and beyond.

Alexandros Nikolaou, Senior Project Manager Flomics Biotech, SL.

10:55 – 11:05

Real-time biomarkers. Olink technology.

Pilar Lara, Business Development Director and Pilar Mata Tutor, Field Application Specialist, Olink-Thermo Fisher Scientific.

11:05 – 11:15

Discussion

11:15 – 11:45

Coffe Break

11:45 – 12:45

SESSION 3: Liquid Biopsies: beyond blood and ctDNA

Chairs

María José Serrano, GENYO, Granada

Enrique de Álava, Hospital Universitario Virgen del Rocío/IBiS, CIBERONC

11:45 – 12:00

Extracellular vesicle-based biomarkers: from technology towards biomedical application.

Hector Peinado, CNIO, Madrid.

12:00 – 12:15

Evolving technologies for CTC analysis.

Roberto Piñero, CHUS, CIBERONC.

12:15 – 12:30

Exploring alternative body fluids as a source of Biomarkers.

Marta Dueñas, CIEMAT, CIBERONC.

12:30 – 12:45

Discussion

12:45 – 14:00

ROUND TABLE:

Liquid Biopsy challenges: how to be prepared for the future.

Chairs

Julie Earl, Hospital Ramón y Cajal, Madrid

Javier Pascual, IBIMA, CIBERONC

Panelists

Rafael López, CHUS, CIBERONC. Carlos Hagen, Medical Director Palex

François Riva, Medical Affairs Director Southern Europe Guardant Health

Luis Garcia Palacios, Medical and Biomarker expert Roche

Noelia Tarazona, INCLIVA, CIBERONC.

14:00 – 15:20

Lunch and networking

15:20 – 17:00

SESSION 4: Cracking the Code: Multianalyte Liquid Biopsy in Early Cancer

Chairs

Rodrigo Toledo, VHIO, CIBERONC

Laura Muínelo, CHUS, CIBERONC.

15:20 – 15:35

Next-generation sequencing of cfDNA for the early detection of cancer. Key points for the clinical translation.

Noelia Tarazona, INCLIVA, CIBERONC.

15:35 – 15:50

Analysis of cfDNA methylation and fragmentation patterns.

Ángel Díaz Lagares, CHUS, CIBERONC.

15:50 – 16:05

Application of Artificial Intelligence to integrate omic-data.

Sergio Sabroso, CNIO, CIBERONC.

16:05 – 16:20

Non-invasive cancer detection through circulating biomarker integration.

Iñaki Comino, IBIMA, CIBERONC.

16:20 – 16:35

International initiatives and projects supporting research on circulating biomarkers.

Eloisa Jantus, FIHGUV, CIBERONC

16:35 – 17:00

Discussion

17:00 – 17:30

Closing remarks and discussion

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