



## **Workshop Title:**

### **Applying multimodal liquid biopsy: from Prognostic to Prediction**

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**

The event aims to:

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.



## **Workshop: Applying multimodal liquid biopsy: from Prognostic to Prediction**

Date: 13<sup>th</sup> JUNE

Location CIEMAT, MADRID

### **9.45-10.00 Welcome and registration**

### **SESSION 1: Standardization and accreditation in circulating biomarkers**

#### **Moderators**

Silvia Calabuig, HGV, CIBERONC

Javier Hernández, Vall d'Hebron Hospital, CIBERONC

**10.00-10.15** Key issues for a successful characterization of circulating biomarkers. Umberto Malapelle, University of Naples Federico II, Italy.

**10.15-10.30:** Minimal requirements for ctDNA testing accreditation in solid tumors. Atocha Romero, Hospital Puerta del Hierro de Madrid.

**PANEL DISCUSSION:** 10.30-10:45

### **10:30-10.45 SESSION 2: Short Talks**

### **11.15-11.45 Coffee Break**

### **SESSION 3: Liquid Biopsies: beyond blood and ctDNA**

#### **Moderators**

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.

**12:00-12:15:** Evolving technologies for CTC analysis. Roberto Piñeiro, Complejo Hospitalario de Santiago de Compostela, CIBERONC.

**12:15-12:30** Exploring alternative body fluids as a source of Biomarkers. Marta Dueñas, CIEMAT, CIBERONC.

**PANEL DISCUSSION:** 12:30-12:45



## **ROUND TABLE: MULTIDISCIPLINARY PANEL**

**12.45-14.00** Liquid Biopsy challenges: how to be prepared for the future.

Moderators

Julie Earl, Hospital Ramón y Cajal.

TBC

Panelists:

Rafael López, Complejo Hospitalario de Santiago de Compostela, CIBERONC.

Javier Pascual, IBIMA, CIBERONC

Carlos Hagen, Palex

François Riva, Guardant Health

## **14.00-15.00 Lunch and networking**

## **SESSION 3: Cracking the Code: Multianalyte Liquid Biopsy in Early Cancer**

### **Moderators**

Rodrigo Toledo, VHIO, CIBERONC

Laura Muinelo, Complejo Hospitalario de Santiago de Compostela, CIBERONC.

**15:00-15:15** Next-generation sequencing of cfDNA for the early detection of cancer. Key points for the clinical translation. Noelia Tarazona, INCLIVA, CIBERONC.

**15.15-15.30** Improving sensitivity: Integration of cfDNA methylation and fragmentation patterns. Ángel Díaz Lagares, Complejo Hospitalario de Santiago de Compostela, CIBERONC.

**15.30-15.45** Application of Artificial Intelligence to integrate omic-data. Sergio Sabroso, CNIO, CIBERONC.

**15.45-16.00** Non-invasive cancer detection through circulating biomarker integration. Iñaki Comino, IBIMA, CIBERONC.

**16.00-16:15** International initiatives and projects supporting research on circulating biomarkers. Eloisa Jantus, Hospital general de Valencia, CIBERONC.

**PANEL DISCUSSION: 16:15-17:00**

## **17.00-17.30 Closing remarks and discussion**