ISLB
INTERNATIONAL SOCIETY OF LIQUID BIOPSY

5TH ANNUAL CONGRESS

Liquid Biopsy

19 - 21 November 2023 | Madrid, Spain

# ISLB 2023
# PROGRAM BOOK

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MEDICINES

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# Welcome Message

It is my greatest pleasure to welcome you all to the 5th Congress of Liquid Biopsy: **"Opportunities and Challenges of Liquid Biopsy"** (ISLB23) in our beautiful city of Madrid, Spain.

Liquid biopsy is a fascinating and exponentially growing field that has a tremendous potential to significantly change the therapeutic strategy and management of cancer patients. ISLB seek to expand liquid biopsies adoption all over the world and remove obstacles that limit liquid biopsies implementation in the routine clinical practice.

Our second in-person Congress (ISLB 2022) held in Miami, Florida, in October 2022, attracted over 500 attendees. As you will soon notice, the quality of this Congress will be second to none; the Convention Center in which we will hold this Congress is one of the best in the world, and the museums, art galleries, and historic places to visit in Madrid are just outstanding. We are sure that our participants will enjoy the vibrancy of Madrid, taking home an unforgettable cultural and scientific experience.

Save the date and join us in Madrid on 19-21 November 2023, contributing to making this 5th World Congress of Liquid Biopsy an outstanding scientific meeting and an opportunity to prepare Liquid Biopsy professionals for the present and the future.

See you all there!

**Christian Rolfo**
President of ISLB on behalf of the Executive Board


# Host Organization

**About ISLB**

The International Society of Liquid Biopsy (ISLB) is the first international professional organization committed to the improvement and implementation of liquid biopsies in clinical routine practice and the promotion of a multidisciplinary approach for the diagnosis and treatment of cancer patients based on the use of liquid biopsies.

ISLB was founded in 2017 with an aspiring objective: to become the scientific reference in Liquid Biopsy and the unique link of all stakeholders in the liquid biopsy theme.

We are pleased to welcome liquid biopsies professionals all over the world. We would like to be the link among stakeholders in the liquid biopsies theme.

Our education and information program are based on an integrated multidisciplinary approach to reach advanced cancer research.

# Committee

## Executive Committee

**Christian Rolfo**
USA

**Maria Jose Serrano**
Spain

**Umberto Malapelle**
Italy

**Eloisa Jantus Lewintre**
Spain

**David Gandara**
USA

**Massimo Cristofanilli**
USA

## Local Organizing Committee

**Clara Mayo De Las Casas**
Spain

**Maria Jesus Pareja**
Spain

**Cristina Caballero**
Spain

**Atocha Romero**
Spain

# General Congress Information

## Venue

Meliá Castilla
Calle del Poeta Joan Maragall, 43
Madrid, Spain
+34 915 67 50 00
info.melia.castilla@melia.com

## Access / Security

Name badges will be provided to all attendees, sponsors, and exhibitors and will be available for pick up at the Registration Desk (see venue map). Please wear your badge at all times as it is your admission to all Congress sessions, Exhibit & Poster Hall, and non-ticketed social events. Any lost badges will incur a 50 EUR reprint fee.

## Language

The official language of ISLB 2023 is English. All sessions will be conducted in English.

## Parking

There is no hotel parking available, however, cars can be parked in the hotel street or in a private parking nearby.

## Lost Property

Please report any lost or unattended items immediately to the ISLB 2023 Registration Desk. Should you lose anything while at the ISLB 2023 Congress, please enquire at the Registration Desk where any recovered lost property will be held. At the end of the congress, all unclaimed lost and found items will be given to Melia Castilla.

# Registration Hours

Main Level

| | |
|---|---|
| 19 November | 11:30 – 19:30 |
| 20 November | 07:30 – 18:30 |
| 21 November | 07:30 – 17:30 |

# Delegate Bags

Supported by: PANGAEA ONCOLOGY

# Complimentary Wi-Fi

Complimentary Wireless Internet is included in the congress areas
Network Name: **Liquid_Biopsy**
Password: **islb2023**


# Onsite Health and Safety

The health and safety of all those who attend ISLB 2023 is paramount. Our commitment is to provide a safe and comfortable environment for all. And so, with each of your well-being in mind, we are implementing the following COVID-19 Safety Policy for all Congress attendees:

### Will vaccinations be required to attend ISLB 2023 in person?

- No, vaccinations are no longer required to attend in-person.

### Am I required to wear a mask to attend in-person?

- ISLB is recommending that all attendees, exhibitors, vendors, and ISLB Staff wear a face mask while in The Melia Castilla, or any facility hosting an ISLB-sponsored event or meeting, or while attending ISLB hosted/sponsored events or meetings.
- Recommended masks should be at least 2 layers of breathable fabric or hospital grade material, fully covers the nose, nostrils, mouth and fits firmly under the chin, and fits snugly, but comfortably against the side of the face.

# Driving Precision Diagnostics with Liquid Biopsy

20th November, 2023
12:45–13:45 CET

Tapices Room, Meliá Castilla Hotel,
Madrid, Spain

Join the 4oncommunity experts to explore the:

- Application of precision medicine and diagnostics
- Advantages of liquid biopsy in supporting precision medicine
- Practical barriers and best practices associated with liquid biopsy
- Benefits of peer-to-peer support to overcome the obstacles of adopting liquid biopsy

NOVARTIS

**Novartis Pharma AG**
CH-4002 Basel Switzerland

10/23
309098
**Novartis Pharmaceuticals Corporation**
East Hanover, New Jersey 07936-1080

This symposium is organized and funded by Novartis Services Inc, and is intended for an audience of HCPs within the context of the International Society of Liquid Biopsy 2023, in Madrid, Spain. This presentation was approved by the Scientific Program Committee as an independent activity held in conjunction with the 5th Annual ISLB Congress. This presentation is not sponsored or endorsed by ISLB 2023.

ISLB
INTERNATIONAL SOCIETY OF LIQUID BIOPSY

# Empower Your Brand with ISLB Sponsorship

**ISLB sponsorship options include but are not limited to:**

- ☑ Industry-supported webinars
- ☑ Digital advertising opportunities
- ☑ Award sponsorships

To discuss the opportunities further and to find a specific option to meet specific needs and budget contact the ISLB Head Office: **welcome@islb.info**

**Social Media Branding Opportunities:**
**From 500EUR**

**Webinar Sponsor Benefits:**
**From 20,000EUR**

**Award Branding Opportunities:**
**10,000EUR**

ISLB is a young and vibrant society with a growing multidisciplinary membership and global outreach, including:

**Clinicians and clinical investigators**

**Students, Trainees, Post-Docs, Senior Researchers**

**Laboratory managers, Directors of Research laboratories and institutes**

**The ISLB membership base includes:**


# ISLB 2023 Mobile App

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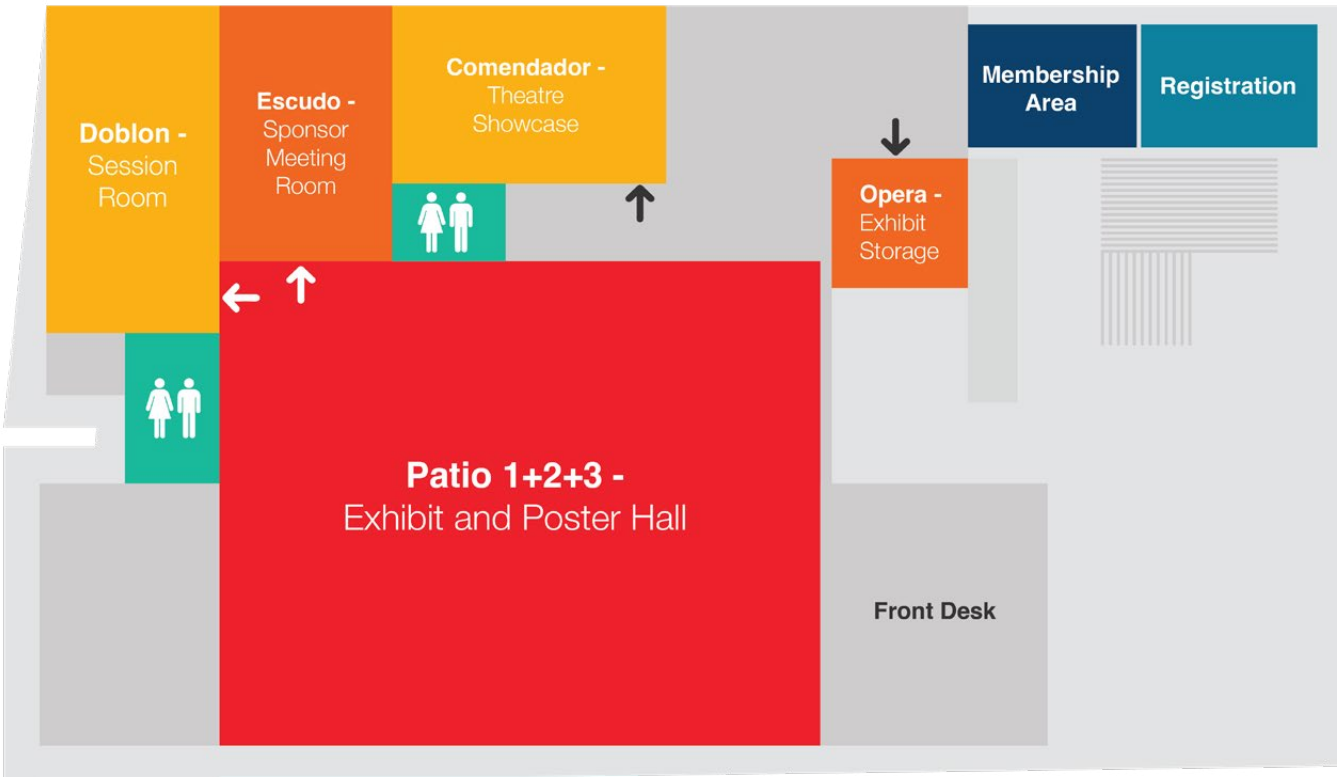
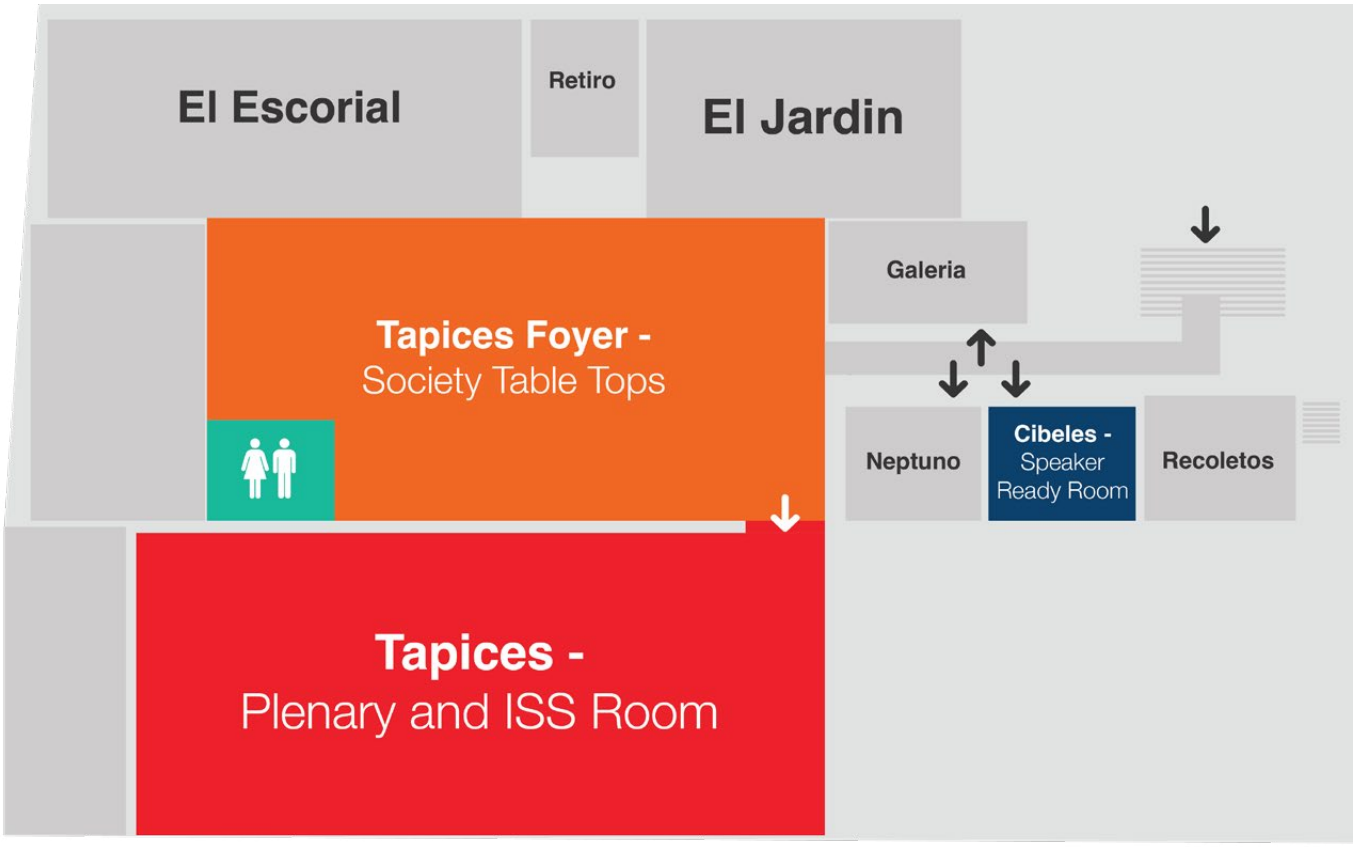
# Venue Floorplan



# Exhibit Floorplan


## ISLB 2023 EXHIBITORS

| | |
|---|---|
| Bio-Rad Genesis Virtual Reality Experience | 38 |
| Bio-Rad Laboratories | 36 |
| Health In Code | 8 |
| Illumina | 5 |
| Menarini Silicon Biosystems | 30 |
| Nonacus | 7 |
| OncoHost | 6 |
| Pangaea Oncology | 35 |
| QIAGEN | 13 |
| Tempus | 11 |
| TETHIS | 15 |
| Thermo Fisher Scientific | 16 |

# Exhibit & Poster Hall Information

## Exhibit Hall Hours

Sunday, 19 November 18:00 – 21:00
Monday, 20 November 10:00 – 17:00
Tuesday, 21 November 10:30 – 17:00

## Poster Hours

Sunday, 19 November 18:00 – 21:00
Monday, 20 November 10:00 – 17:00
Tuesday, 21 November 10:30 – 16:00

Poster Sessions supported by

EXACT SCIENCES

# Program at a Glance

| | Sunday, 19 | Monday, 20 November | Tuesday, 21 November | |
|---|---|---|---|---|
| 08:00 | | | ISS 5 – Supported by Roche & Foundation Medicine 08:00 – 09:00 | 08:00 |
| 09:00 | | ISS 2 - Supported by Regeneron 08:30 – 09:00 | ISLB Award Lectures 09:15 – 10:00 | 09:00 |
| 10:00 | | Liquid Biopsy in Cancer Interception, Screening & Early Diagnosis 09:15 – 10:45 | Liquid Biopsy in Diagnosis and Therapeutic Decision-Making for Rare Malignancies (Track D) 10:15 – 11:25; Integrating Liquid Biopsy Results into Composite Biomarkers (Track E) 10:15 – 11:25 | 10:00 |
| 11:00 | | Coffee Break 10:45 – 11:15 | Coffee Break 11:25 – 11:45 | 11:00 |
| 12:00 | | Liquid Biopsy in Clinical Practice: SOC and New Indications (2022-2023) (Track A) 11:15 – 12:30; Next Generation Technologies in Liquid Biopsy (Track B) 11:15 – 12:30 | Stakeholder Workshop 11:45 – 13:15 | 12:00 |
| 13:00 | Young Committee Career Session 13:00 – 15:00 | Lunch Break & Poster Viewing 12:30 – 14:00; ISS 3 - Supported by Novartis 12:45 – 13:45 | Lunch Break & Poster Viewing 13:15 – 14:45; ISS 6 – Supported by Thermo Fisher & AstraZeneca 13:30 – 14:30 | 13:00 |
| 14:00 | | Opening Ceremony 14:00 – 14:15; Liquid Biopsy Implementation in Emerging Countries 14:15 – 15:00 | | 14:00 |
| 15:00 | | Liquid Biopsy in MRD Assessment (Track C) 15:15 – 16:15 | Molecular Tumor Boards: Liquid Biopsy Case Discussions 14:45 – 15:45 | 15:00 |
| 16:00 | Liquid Biopsy Beyond Cancer (e.g Infectious Disease, Fetal) 15:30 – 17:30 | Coffee Break 16:15 – 16:45; Showcase Theatre Supported by Illumina 16.20 – 16:40 | Coffee Break 15:45 – 16:15; Best Abstract Award & Closing Ceremony 16:15 - 16:45 | 16:00 |
| 17:00 | | ISS 4 - Supported by Volition 16:45 – 17:45 | | 17:00 |
| 18:00 | Scientific Poster Session 18:00 – 19:00 | Preferred Abstracts 18:00 – 19:00 | | 18:00 |
| 19:00 | Welcome Reception 19:00 – 21:00 | Supported | | 19:00 |
| 20:00 | | | | 20:00 |
| 21:00 | | Faculty Dinner **by Invitation only* Supported by GUARDANT 20:30 - 23:00 | | 21:00 |

Refreshments provided  Lunch provided

# Full Congress Program

## Sunday, 19 November 2023

13:00 - 15:00
Tapices

### Young Committee Career Session

We welcome all early career scientists: MD or PhD Students, PostDocs, Fellows, entry level faculty to attend the 2023 ISLB Young Committee Career Session.

The aim of this session is to help young members and young researchers working in liquid biopsies finding the next appropriate career steps. A panel session of researchers from academia and industry will help early career scientists to better understand career paths and opportunities working on liquid biopsies. In addition, round table discussion with the panelist will enable more personalized interaction and career advice.

- Valsamo Anagnostou, *Johns Hopkins School of Medicine - United States*
- Chris Abbosh, *Astrazeneca - United Kingdom*
- Morgan Gilbert - *Sweden*
- Christian Rolfo, *Icahn School of Medicine - United States*

15:30 - 17:30
Tapices

### Liquid Biopsy Beyond Cancer (e.g Infectious Disease, Fetal)

**15:30 - 15:35** **Chairs:**
- Clara Mayo De Las Casas, *Hospital Universitary Dexeus. Pangaea Oncology Laboratory – Spain*
- Maria Jesus Pareja, *Consejeria De Salud Y Consumo. andalucia - Spain*

**15:35 - 15:50** **Fetal Cell-free DNA in Maternal Plasma. Next Generation Non Invasive Prenatal Screening**
Miguel Milan, *Igenomix, part of Vitrolife Group - Spain*

**15:50 - 16:05** **Liquid Biopsy for Infectious Diseases**
Bernardino Alcázar-Navarrete, *Ugc Neumologia. Hospital Universitario Virgen De Las Nieves - Spain*

**16:05 - 16:20** **Liquid Biopsy in Liver Disease**
Manuel Romero-Gómez, *HUVRocio - Spain*

**16:20 - 16:35** **Cell Free DNA Emission Mechanisms**
Julia Valdemarin Burnier, *Mcgill University - United States*

**16:35 - 17:30** **Panel Discussion with All Speakers**

18:00 - 19:00
Patio 1+2+3

### Scientific Poster Session

19:00 - 21:00
Patio 1+2+3

### Welcome Reception

# Monday, 20 November 2023

08:30 - 09:00

Tapices

Refreshments provided

## ISS 2 - Circulating Tumor DNA (ctDNA) Dynamics and Survival Outcomes in Patients with Advanced NSCLC and High (≥50%) PD-L1 Expression, Randomized to Cemiplimab vs Chemotherapy

Supported by: REGENERON SCIENCE TO MEDICINE®

While ctDNA has emerged as a promising tool for monitoring early response to therapy in solid tumors, there is limited data from prospective, randomized phase 3 studies to establish clear criteria for the application of ctDNA monitoring as a biomarker in clinical practice. Personalized tumor-specific analysis of ctDNA from patients treated in the EMPOWER-Lung 1 study were evaluated looking at the magnitude of ctDNA variation associated with clinical outcomes at baseline, end of week 3, and end of week 9. The association between changes in ctDNA and clinical endpoints (OS and ORR) was tested in patient groups by ctDNA change categories.

A deep ctDNA response (≥90% decrease) in ctDNA was observed in >50% of patients receiving 1L cemiplimab monotherapy or chemotherapy after 3 cycles (9 weeks) of therapy. 33% of patients achieved deep ctDNA response by week 3. Almost all patients who reached deep ctDNA response at 3 weeks were still in deep response at week 9 and an additional 27% of patients achieved deep ctDNA response by week 9.

The strongest correlation between ctDNA response and overall survival was achieved at 9 weeks in patients who received cemiplimab and achieved ctDNA clearance, with a 96% risk reduction compared to ctDNA increase.

Composite of deep ctDNA and radiographic response at 9 weeks in cemiplimab treated patients allows to:

- Identify patients with RECIST stable disease who have favorable outcome
- Predict which patient with RECIST partial response have poor outcome
- The correlation is not as clear in chemotherapy treated patients

Composite of deep ctDNA reduction and radiographic response may represent a useful tool to guide treatment intensification in patients treated with cemiplimab monotherapy.

Jean-Francois Pouliot, PhD, *Regeneron Global Medical Affairs Executive Director – United States*

09:15 - 10:45

Tapices

## Liquid Biopsy in Cancer Interception, Screening & Early Diagnosis

**09:15 - 09:20** **Chairs:**

- Maria Jose Serrano, *Genyo - Spain*
- Christian Rolfo, *Icahn School of Medicine - United States*

**09:20 - 09:30** **Early-Stage Breast Cancer Detection in Breast Milk**

Ana Vivancos, *Vall d'Hebron Institute of Oncology - Spain*

**09:30 - 09:40** **Liquid Biopsy and Artificial Intelligence**
Arsela Prelaj, *Fondazione Irccs Istituto Nazionale Tumori Di Milano - Italy*

**09:40 - 09:50** **Early Detection Programs in Japan**
Masahiro Tsuboi, *National Cancer Center Hospital East - Japan*

**09:50 - 10:00** **Cancer Interception and Screening with Liquid Biopsy**
Nir Peled, *Shaare Zedek Medical Center - Israel*

**10:00 - 10:45** **Panel Discussion**
- Sylvan Baca, *Dana Farber Cancer Institute - United States*
- Jean-Yves Pierga, *Institut Curie - France*
- Paul Hofman, *Université Côte D'azur - France*
- Enriqueta Felip, *Vall D'hebron University Hospital - Spain*

10:45 - 11:15
Patio 1+2+3

## Refreshment Break & Poster Viewing

11:15 - 12:30
Track A
Tapices

## Liquid Biopsy in Clinical Practice: SOC and New Indications (2022-2023)

**11:15 - 11:20** **Chairs:**
- Luis Paz-ares, *Hospital 12 De Octubre - Spain*
- Alessandro Russo, *Papardo Hospital, Messina - Italy*

**11:20 - 11:30** **Implementation of Liquid Biopsy in the Design of Clinical Trials**
Luis Paz-ares, *Hospital 12 De Octubre - Spain*

**11:30 - 11:40** **MRD: Tissue Naive or Tumor-informed?**
Noelia Tarazona, *Hospital Clínico Universitario De Valencia - Spain*

**11:40 - 11:50** **Creating a Path to Improve Testing**
Charu Aggarwal, *University Of Pennsylvania - United States*

**11:50 - 12:30** **Panel Discussion**
- Pashtoon Kasi, *Weill Cornell Medicine - United States*
- Nicola Fusco, *IEO European Institute Of Oncology, University of Milan - Italy*
- Enriqueta Felip, *Vall D'Hebron University Hospital - Spain*

Track B
Doblón

## Next Generation Technologies in Liquid Biopsy

**11:15 - 11:20** **Chairs:**
- Umberto Malapelle, *Department of Public Health, University Federico II of Naples - Italy*
- Beatriz Bellosillo, *Hospital Del Mar - Spain*

**11:20 - 11:30** **CSF NGS a New Frontier**
Maria Arcila, *Memorial Sloan Kettering Cancer Center - United States*

**11:30 - 11:40** **How to Build a NGS Liquid Biopsy Platform**
Paul Hofman, *Université Côte D'azur, France*

**11:40 - 11:50** **CTC Technologies for Detection and Isolation**
Lorena Diéguez, *INL - International Iberian Nanotechnology Laboratory - Portugal*

**11:50 - 12:00** **Access to NGS Test in Europe**
Solange Peters - *Switzerland*

**12:00 - 12:30** **Panel Discussion**
- Valeria Cecilia Denninghoff, *FPS - Spain*
- Evrykleia Lianidou, *National and Kapodistrian University of Athens - Greece*
- Valsamo Anagnostou, *Johns Hopkins School of Medicine - United States*

12:30 - 14:00 **Lunch Break & Poster Viewing**

12:45 - 13:45

Tapices

Lunch provided

## ISS 3 - Driving Precision Diagnostics With Liquid Biopsy

Supported by: NOVARTIS

The importance of precision medicine and diagnostics
- Precision medicine and diagnostics can improve patient outcomes through genotyping to find the optimal treatment, predicting resistance mutations, aiding early intervention, and monitoring response to therapy.

Patient selection and now early detection: the evolving utility of liquid biopsy
- Liquid biopsy has unique advantages over tissue-based diagnostic tools in supporting the application and success of precision medicine.
- Unlike tissue biopsy, liquid biopsy can overcome tumor heterogeneity and has benefits in genotyping tumors where tissue is inaccessible, inadequate, or in patients with only bone metastasis.
- Liquid biopsy also supports risk stratification after surgery, early detection, and tracking the development of resistance mutations.

Tissue is not the only option, overcoming barriers to liquid adoption
- Despite its potential, liquid biopsy remains underutilized due to various barriers, including lack of sensitivity and specificity, biological factors, ctDNA fraction, lack of reimbursement and low awareness.
- Consideration for best practice handling of liquid biopsy specimens e.g. Tube collection, centrifugation time, preserving ctDNA fraction, can mitigate some of these challenges.

Learning from case-based examples to drive the testing of liquid biopsy samples
- There are many educational resources available to help drive the adoption of liquid biopsy and other diagnostic tools.
- One of these resources, the 4oncommunity, is a virtual community of likeminded professionals which hopes to spread awareness about precision medicine and diagnostics.
  - HCPs have used this tool to support with difficult pathology cases and questions surrounding diagnostics.
  - Case study: A review of a real-world scenario, such as a difficult pathology case, where the 4oncommunity platform contributed to the laboratory in resolving the issue.

Scientific objectives:

- Understand the broad application of precision medicine and diagnostics in enhancing patient care.
- Explore the advantages of liquid biopsy in supporting precision medicine.
- Identify the practical barriers and best practices associated with the use of liquid biopsy.

Highlight how educational resources and the opportunity to exchange experiences with likeminded professionals can offer valuable knowledge to help healthcare professionals overcome obstacles in adopting liquid biopsy

**12:45 - 13:00** **The Importance of Precision Medicine and Diagnostics**
Nicola Fusco, *IEO European Institute of Oncology, University of Milan - Italy*

**13:00 - 13:15** **Patient Selection and Now Early Detection: The Evolving Utility of Liquid Biopsy**
Matteo Fassan, *Department of Medicine (DIMED), University of Padua - Italy*

**13:15 - 13:30** **Tissue Is Not the Only Option, Overcoming Barriers to Liquid Adoption**
Umberto Malapelle, *Department of Public Health, University Federico II of Naples - Italy*

**13:30 - 13:45** **Driving Liquid Biopsy Testing: The Benefits of Peer-To-Peer Support**
Fabio Pagni, *Pathological Anatomy Department, University of Milan Bicocca – Italy*

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14:00 - 14:15
Tapices

## Opening Ceremony - Welcome to ISLB 2023

- Eloisa Jantus Lewintre, *Universitat Politècnica de València - Spain*
- Maria Jose Serrano, *Genyo - Spain*
- Umberto Malapelle, *Department of Public Health, University Federico II of Naples - Italy*
- David Gandara, *University of California, Davis, UC Davis Comprehensive Cancer Center - United States*
- Christian Rolfo, *Icahn School of Medicine - United States*

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14:15 - 15:00
Tapices

## Liquid Biopsy Implementation in Emerging Countries

**14:15 - 14:20** **Chairs:**

- Eloisa Jantus Lewintre, *Universitat Politècnica de València - Spain*
- Ola Khorshid, *Nci Cairo University - Egypt*

**14:20 - 15:00** **Panel Discussion**

- Valeria Cecilia Denninghoff, *FPS - Spain*
- Navneet Singh, PGIMER, *Chandigarh - India*
- Nir Peled, *Shaare Zedek Medical Center - Israel*
- Javier de Castro, *La Paz University Hospital - Spain*
- Norma Pilnik, *Cordoba University - Argentina*
- Yüksel Ürün, *Ankara University - Turkey*

15:15 - 16:15
Track C
Tapices

## Liquid Biopsy in MRD Assessment

**15:15 - 15:20** **Chairs:**
- Massimo Cristofanilli, *Weill Cornell Medicine - United States*
- Beatriz Bellosillo, *Hospital Del Mar - Spain*

**15:20 - 15:30** **New Technologies in Monitoring Minimal Residual Disease in Liquid Biopsy**
Alexandra Clipson, *CRUK Cancer Biomarker Centre - United Kingdom*

**15:30 - 15:40** **MRD in Colorectal Cancer**
Noelia Tarazona, *Hospital Clínico Universitario De Valencia - Spain*

**15:40 - 15:50** **MRD in Clinical Trials**
Luis Paz-ares, *Hospital 12 De Octubre - Spain*

**15:50 - 16:15** **Panel Discussion**
- Delvys Rodriguez - *Spain*
- Joaquin Dopazo, *Progress and Health Foundation - Spain*
- Natasha Leighl, *Princess Margaret Cancer Centre - Canada*
- Atocha Romero, *Hospital Puerta De Hierro - Spain*

16:15 - 16:40
Patio 1+2+3

## Refreshment Break & Poster Viewing

16:20 - 16:40
Comendador

## Liquid Biopsy for Cancer Care: Clinical Applications and Implementation in the Pathology Lab

Showcase Theatre Supported by: illumina®

Giancarlo Pruneri, *Istituto Nazionale Dei Tumori - Italy*

16:45 - 17:45
Tapices

## ISS 4 - Nucleoprotein Based Liquid Biopsy Methods – Including Physical Isolation of Pure Tumor Derived ctDNA

Supported by: Volition

**16:45 - 16:50** **Introduction to Circulating Nucleoproteins**
Jake Micallef, *Volition - UK*

**16:50 - 17:00** Plasma H3K27Me3 Nucleosome Measurements in Molecular Profiling of Lung Cancer
Lea Payen, *Hospices Civils de Lyon - France*

**17:00 - 17:10** **Recombinant Nucleosomes as Reference Materials in NGS Assays for ctDNA**
Lea Payen, *Hospices Civils de Lyon - France*

**17:10 - 17:30** **Novel Liquid Biopsy Method Based on Physical Isolation of Pure Tumor Derived ctDNA From All Background DNA of the Same Sequences Based on Nucleoprotein Structure**
Jake Micallef, *Volition - UK*

**17:30 - 17:45** **Q&A Session**

18:00 - 19:00
Tapices

## Preferred Abstracts

**18:00 - 18:05** **Chairs:**
Carolina Reduzzi, *Weill Cornell Medicine - United States*
Diego de Miguel Perez, *Icahn School of Medicine At Mount Sinai New York - United States*

**18:05 - 18:10** **Moving Towards Global Harmonization of Liquid Biopsy Frameworks and Standards: The BLOODPAC Experience**
Lauren Leiman, *Blood Profiling Atlas In Cancer (BLOODPAC) - United States*

**18:10 - 18:15** **Performance of Circulating Tumor DNA (ctDNA) Genomic and Epigenomic Profiling (GuardantINFINITY) in the TRESR and ATTACC Studies**
Ian Silverman, *Repare Therapeutics - United States*

**18:15 - 18:25** **Abstract Discussion**
Carolina Reduzzi, *Weill Cornell Medicine - United States*

**18:25 - 18:30** **Longitudinal Plasma ctDNA Testing in Resected Early-Stage NSCLC**
Jamie Feng, *Princess Margaret Cancer Centre, University Health Network - Canada*

**18:30 - 18:35** **Ovarian Cancer Is Detectable From Peripheral Blood Using Machine Learning Over T Cell Repertoires**
Sol Efroni, *Bar-ilan University - Israel*

**18:35 - 18:45** **Abstracts Discussion**
Alessandro Russo, *Papardo Hospital, Messina - Italy*

**18:45 - 18:50** **Poster Winner 2022**
Talia Roseshter, *Lady Davis Institute - JGH - Canada*

# Tuesday, 21 November 2023

08:00 - 09:00
Tapices
Refreshments provided

## ISS 5 - Unlocking the Power of Liquid Based Comprehensive Genomic Profiling Testing

Supported by: FOUNDATION MEDICINE | Roche

**UK Perspective on the Clinical Value of Lbx Current Use of Liquid and How to Further Implement Lbx in Clinical Routine and Research**
Natalie Cook, *Senior Clinical Lecturer in Experimental Cancer Medicine at The Christie NHS Foundation Trust/Division of Cancer Sciences, University of Manchester – United Kingdom*

**French Perspective on the Clinical Value of LBx Current Use of Liquid and How to Further Implement LBx in Clinical Routine and Research**
Etienne Rouleau, *Praticien Spécialiste, Chef de service, Service Génétique des Tumeurs Gustave Roussy - France*

**Spanish Perspective on the Clinical Value of LBx Current Use of Liquid and How to Further Implement LBx in Clinical Routine and Research**
Dolores Isla Casado, *Servicio de Oncología Médica, Hospital Clínico Universitario "Lozano Blesa" de Zaragoza – Spain*

09:15 - 10:00
Tapices

## ISLB Award Lectures

**09:15 - 09:20** **Chairs:**
- Christian Rolfo, *Icahn School of Medicine - United States*
- Massimo Cristofanilli, *Weill Cornell Medicine - United States*

**09:20 - 09:40** **mRAS-mediated Adaptive Resistance in KRAS-mutant G12C NSCLC**
Rafael Rosell, *IOR: Instituto Oncológico Dr Rosell - Spain*

**09:40 - 10:00** **The Expanding Universe of Liquid Biopsies: Bridging Scientific Discovery With Clinical Cancer Care**
Valsamo Anagnostou, *Johns Hopkins School of Medicine - United States*

10:15 - 11:25
Track D
Doblón

## Liquid Biopsy in Diagnosis and Therapeutic Decision Making for Rare Malignancies

**10:15 - 10:20** **Chairs:**
- Nicola Fusco, *IEO European Institute of Oncology, University of Milan - Italy*
- Maria Arcila, *Memorial Sloan Kettering Cancer Center - United States*

**10:20 - 10:30** **Cholangiocarcinoma as a Model for Fusions of Liquid Biopsy**
Pashtoon Kasi, *Weill Cornell Medicine - United States*

**10:30 - 10:40** **Genitourinary Cancer**
Sylvan Baca, *Dana Farber Cancer Institute - United States*

**10:40 - 10:50** **Noninvasive Detection of Microsatellite Instability in Patients With Endometrial Cancer**
Laura Muinelo, *Health Reserach Institute of Santiago de Compostela (FIDIS) Fidis - Spain*

**10:50 - 11:00** **CTC Transcriptomics as a Platform for Precision Oncology**
Paraskevi Giannakakou, *Weill Cornell Medical College - United States*

**11:00 - 11:25** **Panel Discussion**
- Denis Horgan, *European Alliance For Personalised Medicine - Belgium*
- Enrique Billalabetia, *Hospital Universitario 12 De Octubre - Spain*

Track E

Tapices

## Integrating Liquid Biopsy into Composite Biomarkers

**10:15 - 10:20** **Chairs:**
- Eloisa Jantus Lewintre, *Universitat Politècnica de València - Spain*
- Rafael Lopez Lopez, *University Clinical Hospital - Spain*

**10:20 - 10:30** **Integrating ctDNA into Composite Biomarkers for Immunotherapy**
David Gandara, *University of California, Davis. UC Davis Comprehensive Cancer Center - United States*

**10:30 - 10:40** **Artificial Intelligence and Liquid Biopsy**
Joaquin Dopazo, *Progress and Health Foundation - Spain*

**10:40 - 10:50** **Integrating Liquid and Tissue Genotyping - Do We Need Both?**
Natasha Leighl, *Princess Margaret Cancer Centre - Canada*

**10:50 - 11:25** **Panel Discussion**
- Fabio Pagni, *Unimib - Italy*
- Diego de Miguel Perez, *Icahn School of Medicine At Mount Sinai New York - United States*
- Klaus Pantel, *University Medical Center - Germany*

11:25 - 11:45

Patio 1+2+3

## Refreshment Break & Poster Viewing

11:45 - 13:15

Tapices

## Stakeholder Workshop

**11:45 - 11:50** **Chairs:**
- David Gandara, *University of California, Davis. UC Davis Comprehensive Cancer Center - United States*
- Christian Rolfo, *Icahn School of Medicine - United States*

**11:50 - 13:15** **Panel Discussion**

- Denis Horgan, *European Alliance For Personalised Medicine - Belgium*
- Paz Vellanki, *FDA - United States*
- Jean-Francois Pouliot, *Regeneron Pharmaceuticals - United States*
- Chris Abbosh, *Astrazeneca - United Kingdom*
- Simon Patton, *EMQN CIC - United Kingdom*
- Maria Arcila, *Memorial Sloan Kettering Cancer Center - United States*
- Umberto Malapelle, *Department of Public Health, University Federico II Of Naples - Italy*
- Massimo Cristofanilli, *Weill Cornell Medicine - United States*
- Eloisa Jantus Lewintre, *Universitat Politècnica de València - Spain*
- Jean-Yves Pierga, *Institut Curie - France*
- Maria Jose Serrano, *Genyo - Spain*
- Lauren Leiman, *Blood Profiling Atlas In Cancer (BLOODPAC) - United States*
- Pascale Morel, *Qiagen - France*
- Murry Wynes, *IASLC - United States*
- Gilles Erb, *Roche - Switzerland*

13:15 - 14:45 **Lunch Break & Poster Viewing**

13:30 - 14:30

Tapices

Lunch provided

## ISS 6 - Unlocking the Potential of Liquid Biopsy in Clinical Cancer Research

Supported by: ThermoFisher SCIENTIFIC AstraZeneca

**Liquid Biopsy Overview: Present and Future**
Chris Abbosh, *Senior Director, Translational Medicine Oncology, AstraZeneca – United Kingdom*

**NGS and Digital PCR as a Complementary Approach for ESR1 Variant Detection in Breast Cancer**
Matteo Allegretti, *IRCCS Regina Elena National Cancer Institute Rome – Italy*

**Current Use of NGS in Liquid Biopsy in Clinical Routine at Hospital del Mar**
Beatriz Bellosillo, *Head Molecular Biology Laboratory, Pathology Department, Hospital del Mar, Barcelona – Spain*

**Q&A Session**

- Chris Abbosh, *Senior Director, Translational Medicine Oncology, AstraZeneca – United Kingdom*
- Philip Jermann, *Thermo Fisher Scientific – Switzerland*

14:45 - 15:45

Tapices

## Molecular Tumor Boards: Liquid Biopsy Case Discussions

**14:45 - 14:50** **Chairs:**

- Delvys Rodriguez - *Spain*
- Charu Aggarwal, *University of Pennsylvania - United States*

**14:50 - 15:45** **Panel Discussion**

- Laura Mezquita, *Hospital Clinic - Idibaps - Spain*
- Luis Paz-ares, *Hospital 12 De Octubre - Spain*
- Luis Raez, *Memorial Cancer Institute/Florida Atlantic University (fau) - United States*
- Nicola Fusco, *IEO European Institute of Oncology, University of Milan - Italy*
- Sylvan Baca, *Dana Farber Cancer Institute - United States*
- Ignacio Gil Bazo, *Instituto Valenciano de Oncología - Spain*

15:45 - 16:15

Patio 1+2+3

## Refreshment Break & Poster Viewing

16:15 - 16:45

Tapices

## Best Abstract Award & Closing Ceremony

**Session Chairs**

- Christian Rolfo, *Icahn School of Medicine - United States*
- Maria Jose Serrano, *Genyo - Spain*
- David Gandara, *University of California, Davis. UC Davis Comprehensive Cancer Center - United States*
- Eloisa Jantus Lewintre, *Universitat Politècnica de València - Spain*
- Umberto Malapelle, *Department of Public Health, University Federico II of Naples – Italy*

# ISLB Awards Lectures

Date: 21 November
Time: 09:15 – 10:00
Location: Tapices

**Congress badge required for entry*

## ISLB Lifetime Achievement Award 2023

# Dr. Rafael Rosell

### mRAS-mediated Adaptive Resistance in KRAS-mutant G12C NSCLC

Dr. Rafael Rosell is Head of the Molecular and Cellular Oncology Laboratory program at the Germans Trias i Pujol Research Institute and Hospital (IGTP), Campus Can Ruti, (Badalona, Barcelona, Spain), past Director of the Cancer Biology and Precision Medicine Program at the Catalan Institute of Oncology, Hospital Germans Trias i Pujol (Badalona), Chief Scientific Officer, Chairman and Founder of Pangaea Oncology SL (Barcelona), Chief Medical Officer and President of the Dr Rosell Oncology Institute (IOR), Quirón Dexeus, General de Catalunya & Sagrat Cor Univ. Hospitals (Barcelona), and Founder and President of the Molecular Oncology Research Foundation (Barcelona). He is Founder and Director of International Relations and Projects, Spanish Lung Cancer Group (SLCG), member of the Foundation Council and Steering Committee of the European Thoracic Oncology Platform (ETOP) and on the Foundation Board of the ETOP-International Breast Cancer Study Group (IBCSG). He is also a Panel member of the ASCO Clinical Practice Living Guidelines-Systemic Therapy for Stage IV NSCLC.

Dr. Rosell's contributions to translational medical oncology, with particular emphasis in the field of non-small-cell lung cancer with EGFR mutations, have earned him international renown.

Dr. Rosell is fully dedicated to the improvement of lung cancer therapy. His current research programs include continued investigation in translational/preclinical research, liquid biopsy, and novel technologies with NGS. In 2018, he was selected to participate in The European Liquid Biopsy Academy (ELBA).

ISLB
INTERNATIONAL SOCIETY OF LIQUID BIOPSY

## ISLB Research Award 2023

# Dr. Valsamo Anagnostou

### The Expanding Universe of Liquid Biopsies: Bridging Scientific Discovery With Clinical Cancer Care

Dr. Anagnostou is an Associate Professor of Oncology, Director of the Thoracic Oncology Biorepository, co-leader of the Molecular Tumor Board and co-director of the Lung Cancer Precision Medicine Center of Excellence in the Sidney Kimmel Cancer Center at Johns Hopkins. She graduated from Medical School of the National and Kapodistrian University of Athens, Greece and received a PhD from the same institution. Dr. Anagnostou completed her internal medicine residency at Yale-New Haven Hospital and subsequently trained in Medical Oncology at Johns Hopkins. She is a translational cancer investigator who is focusing on large-scale genomic, multi-omic and liquid biopsy analyses in human cancers. Her research is particularly focused on understanding the molecular mechanisms of response and resistance to immunotherapy and translating this knowledge into minimally invasive approaches for cancer detection, monitoring and interception for patients treated with immunotherapy. Her long term goal is to transform medical oncology to molecular oncology, where treatment decisions are tailored not only to a baseline genotype but are also informed by real-time dynamics of liquid biopsies.

# 2023 ISLB Young Committee Career Session

**Date: 19 November**
**Time: 13:00 - 15:00**
**Location: Tapices**

**Congress badge required for entry*

We welcome all early career scientists: MD or PhD Students, PostDocs, Fellows, entry level faculty to attend the 2023 ISLB Young Committee Career Session.

The aim of this session is to help young members and young researchers working in liquid biopsies finding the next appropriate career steps. A wide variety of academic and industrial settings will be presented to enable a broad overview over career options in the field of liquid biopsies.

Panelists:

- Christian Rolfo, Icahn School of Medicine - New York, United States
- Valsamo Anagnostou, MD – Johns Hopkins School of Medicine, Towson, New York, United States
- Gilbert Morgan, MD – Skåne University Hospital, Lund, Sweden
- Chris Abbosh, MD, PhD – AstraZeneca, Cambridge, UK

# Official Networking Events

## Welcome Reception

Kick off ISLB 2023 with a time of networking over drinks and passed canapes. Join fellow congress delegates as we welcome the next few days of exciting presentations, posters, and exhibition.

Date: **19 November**
Time: **19:00 – 21:00**
Location: **Patio 1+2+3**

**Congress badge or event ticket required for entry*

# Exhibitor Listing

## Bio-Rad Genesis Virtual Reality Experience

Booth 38 bio-rad.com

Bio-Rad is among the top five life science companies in the world, providing instruments, software, consumables, reagents and content for various the research areas including cell and molecular biology, protein purification and quantitation, drug discovery and manufacture, food safety, and science education.

## Bio-Rad Laboratories

Booth 36 bio-rad.com

Bio-Rad is among the top five life science companies in the world, providing instruments, software, consumables, reagents and content for various the research areas including cell and molecular biology, protein purification and quantitation, drug discovery and manufacture, food safety, and science education.

## Health In Code

Booth 8 healthincode.com/en

We aim to establish liquid biopsy analysis with NGS as a standard practice for cancer diagnosis.Our panel screens for the main biomarkers that are associated with sensitivity to targeted therapy, resistance mechanisms, and clonal evolution. This information plays a critical role in early detection, monitoring and treatment selection.

## Illumina

Booth 5 illumina.com

At Illumina, our mission is to improve human health by unlocking the power of the genome. Our sequencing by synthesis chemistry is used to generate high-accuracy sequence data in studies around the globe. Our microarrays also provide accurate, high-throughput genotyping for a range of applications. The innovative products that we provide are facilitating breakthroughs in many scientific areas, including oncology, reproductive health, genetic disease, precision medicine, agriculture, microbiology, and beyond. The progress we see being made in genomics inspires us to push the boundaries of what is possible so we can create the next generation of genomics solutions.

## Menarini Silicon Biosystems

Booth 30 siliconbiosystems.com

We offer unique rare cell technologies that provide clinicians, clinical researchers, and biopharma with access to unparalleled resolution in the study of cells. CELLSEARCH® and DEPArray™ technologies together provides the most comprehensive cell-based liquid biopsy workflow for enumeration, sorting, and molecular characterization of rare circulating tumor cells with single-cell precision.

## Nonacus

Booth 7 nonacus.com

Through the deployment of GALEAS, our advanced liquid biopsy platform, Nonacus enable decentralised, cost effective and cutting-edge cancer genomics that democratise early cancer detection and monitoring globally.

## OncoHost

Booth 6 | oncohost.com

ONCOHOST
GUIDED ONCOLOGY

OncoHost is a technology company transforming the approach to precision medicine for improved patient outcomes. OncoHost's proprietary platform, PROphet®, is a plasma-based, proteomic pattern analysis tool whose initial offering in non-small cell lung cancer (NSCLC) uses a single blood sample to guide first-line immunotherapy decision-making.

## Pangaea Oncology

Booth 35 | panoncology.com

PANGAEA
ONCOLOGY

Pangaea Lab, Spain's first ENAC-accredited pharmacogenetics laboratory, specializes in identifying gene mutations and Next Generation Sequencing in liquid biopsies for oncological patients. Using advanced techniques like real-time PCR, NGS and nCounter, offering precise molecular diagnoses. The team includes experts in Molecular Diagnostic, preclinical oncological research, R&D Diagnostics & Biomarker studies.

## QIAGEN

Booth 13 | qiagen.com

QIAGEN

QIAGEN pushes the boundaries of innovation to improve our understanding of DNA, RNA and proteins – the building blocks of life. We enable our customers to unlock valuable insights from any biological sample. Our products for molecular testing serve a wide range of applications from basic research to clinical healthcare.

## Tempus

Booth 11 | tempus.com

TEMPUS

Tempus is making precision medicine a reality by applying AI in healthcare, deriving insights from our expansive library of clinical data and molecular data. We enable physicians to make real-time, data-driven decisions to deliver personalized care and targeted therapies for patients

# TETHIS

Booth 15 tethis-lab.com

Tethis S.p.A., a diagnostic company based in Milan (Italy), is introducing See.d, a fully automated liquid biopsy platform that allows for the first time an operator-independent, scalable, high-quality preparation of plasma and cell samples from a single blood draw for multi-omics liquid biopsy.

# Thermo Fisher Scientific

Booth 16 thermofisher.com

Thermo Fisher Scientific Inc. is the world leader in serving science. Our Mission is to enable our customers to make the world healthier, cleaner, and safer. Whether our customers are accelerating life sciences research, solving complex analytical challenges, improving patient diagnostics and therapies, or increasing productivity in their laboratories, we are here to support them.

# Poster Listing

## Clinical Application of Liquid Biopsy

**PP.01**
A Cell-Free DNA Methylation Signature to Detect Metastatic Breast Cancer in Blood
**Isabel Barragan, Spain**

**PP.02**
Clinical Utility of Combined Plasma and Tissue NGS in Patients With Newly Diagnosed Advanced Non-Small Cell Lung Cancer
**Helena Bote De Cabo, Spain**

**PP.03**
Clinical Feasibility of NGS Liquid Biopsy Analysis in NSCLC Patients Using Oncomine Precision Assay with Genexus™ Integrated Sequencer
**Simonetta Buglioni, Italy**

**PP.04**
A Plasma MicroRNA Signature for Early Detection of Paediatric Cerebellar Atrophy Caused By PMM2-CDG
**Lluc Cabús, Spain**

**PP.05**
TGF-β mRNA Expression Levels in Extracellular Vesicles Are Associated With Immunotherapy Response in Metastatic Melanoma Patients
**Stefania Crucitta, Italy**

**PP.06**
Heterochromatin Profiling in Lymphoma Patient Plasma for the Discovery of Novel Chromatin Variants
**Steven De Michino, Canada**

**PP.07**
Clinical and Molecular Utility of Cell Block From Pleural Exudate Concerning Cytology and Surgical Biopsy
**Valeria Cecilia Denninghoff, Spain**

**PP.09**
Genomic Profiling in NSCLC: Insights from Liquid Biopsy
**Cristiana Ercolani, Italy**

**PP.10**
Utility of Liquid Biopsy for Comprehensive Genomic Profiling in a First Diagnostic Context: A Comparative Analysis with Tissue Biopsy
**Javier Freire Salinas, Spain**

**PP.11**
Utility of Liquid Biopsy for Molecular Profiling and Monitoring in Metastatic Colorectal Cancer: A Pilot Study in a Real-World Cohort
**Javier Freire Salinas, Spain**

**PP.12**
A Combined mDETECT Assay for all Subtypes of Breast Cancer and its use in Monitoring Metastatic Disease
**Keira Frosst, Canada**

**PP.13**
Next Generation Sequencing in Liquid Biopsies: Towards Personalized Cancer Treatment
**Sandra Gallach Garcia, Spain**

**PP.14**
Mutational Prognosis of Survival by Liquid Biopsy in Advanced EGFRm NSCLC
**Marco Galvez-Nino, Peru**

**PP.15**
Negative Predictive Value of Pre-diagnostic Plasma ctDNA Testing in Patients With Suspected Lung Cancer
**Miguel García-Pardo, Spain**

**PP.16**
Circulating Tumor DNA (ctDNA) Dynamics and Clinical Outcome in Metastatic Colorectal Cancer (mCRC) Patients (pts) Undergoing Front-line Chemotherapy
**Michele Ghidini, Italy**

**PP.17**
Gene Expression Signatures in Conjunctival Fornix Aspirates of Patients With Dry Eye Disease Associated with Meibomian Gland Dysfunction
**Ana Giménez, Spain**

**PP.18**
Impact of Reference Materials for Analytical Performance Evaluation of Liquid Biopsy NGS Assays
**Ariane Hallermayr, Germany**

**PP.20**
High Sensitivity Detection of Specific Ultra Low-Frequency Somatic Mutations for Minimal Residual Disease (MRD) Monitoring
**Tina Han, United States**

**PP.21**
Glioma Patient Management: Utilizing MGMT Methylation in Extracellular Vesicle-Based Liquid Biopsy
**Inmaculada Ibanez De Caceres, Spain**

**PP.22**
Detection of Activating Mutations in Liquid Biopsy of Egyptian Solid Tumor Patients Using Targeted Next Generation Sequencing: A Pilot Study
**Neemat Kassem, Egypt**

**PP.23**
Molecular Intelligence Targeting Driver Activating Mutations in Correlation With Gut Microbiome in Egyptian Colorectal Cancer
**Neemat Kassem, Egypt**

**PP.24**
Circulating Tumor Cells as a Non-invasive Glioblastoma Diagnostic and Prognostic Tool
**Francesca Lessi, Italy**

**PP.25**
Detection of Circulating Tumor Cells in Peripheral Blood of Pediatric Osteosarcoma Patients
**Francesca Lessi, Italy**

**PP.26**
Cell-Free (cfDNA) Based Evaluation of KRAS Mutation Profile in Solid Tumors With Focus on G12C Variant
**Vineet Datta, India**

**PP.27**
Blood-Based Circulating Tumor Cells and Cell-Free DNA Monitoring for Dynamic Recurrence Risk Prediction in Melanoma
**Anthony Lucci, United States**

**PP.28**
Evaluation of Parsortix PR1 and PX+ Systems for the Isolation of Circulating Tumour Cells in Patients With Resectable Lung Cancer
**Volga M Saini, Ireland**

**PP.29**
High Level of Circulating Tumour DNA at Diagnosis Correlates With Disease Spreading and Defines Multiple Myeloma Patients With Poor Prognosis
**Marina Martello, Italy**

**PP.30**
Liquid Biopsy Analysis Shows MAGI2 Gene as Potential Negative Prognosis Biomarker in NSCLC Patients
**Pilar Mediavilla, Spain**

**PP.31**
Liquid Biopsy Monitoring in BRAF-V600E Mutated NSCLC Patients Treated With Dabrafenib Plus Trametinib: A Prospective, Explorative, Multicentric Study. LiBRA_study (GOIRC-03-2020)
**Roberta Minari, Italy**

**PP.32**
Circulating Tumor DNA Monitoring in Advanced Mutated Melanoma Treated With Immune Checkpoint Inhibitors: A Pilot Study
**Gregorio Monica, Italy**

**PP.33**
Clinical Utility of Liquid Biopsy in the Diagnosis and Monitoring of Patients Affected by PROS Syndromes
**Ester Munera-Maravilla, Spain**

**PP.34**
Exploring the Role of CK+/CD45+ (Dual-Positive) Circulating Cells in Patients With Early Breast Cancer (EBC)
**Carolina Reduzzi, United States**

**PP.35**
cfDNA NGS for Identification of Primary and Acquired Resistance in Patients With Lung Cancer and EGFR Mutations
**Ariel Peleg, United States**

**PP.36**
A Narrow NGS Panel in the Analysis of KRAS p.G12C Mutation in Longitudinal Series of NSCLC Patients: A Pilot Study
**Francesco Pepe, Italy**

**PP.37**
Evaluation of Circulating Tumour DNA During the Clinical Follow-up of Melanoma Patients
**Joan Anton Puig-butille, Spain**

**PP.38**
Non-invasive Assessment of Pathological Complete Response and Minimal Residual Disease Through Plasma Methylomics in Patients With Triple Positive Breast Cancer
**Francesco Ravera, Italy**

**PP.39**
KRAS Mutations, Potential Biomarkers for the Identification of Non-small-Cell Lung Cancer Patients That May Benefit From Immunotherapy-Based Treatments
**Lucía Robado De Lope, Spain**

**PP.40**
Association of IDH1 Mutation Detected in Circulating-free DNA With Survival Outcome in Patients Affected by Glioma
**Martina Ruglioni, Italy**

**PP.41**
Integrating Idylla TM Alongside Real-time PCR and NGS for Investigation of Gene Fusions in Pleural Effusions of Lung Adenocarcinoma
**Stefania Scarpino, Italy**

**PP.42**
Analytical Performance of TruSight™ Oncology 500 ctDNA v2: Improved Sensitivity for Small Nucleotide Variants With Reduced DNA Input Requirements
**Nadia Sedlyarova, Austria**

**PP.43**
Direct Saliva Analysis by MALDI Mass Spectrometry: A Workflow Suitable for Future Clinical Applications
**Lyna Sellami, United Kingdom**

**PP.44**
Heterogeneity of Somatostatin Receptors on Circulating Tumor Cells in Neuroendocrine Tumors and Melatonin's Potential in Non-Small-Cell Lung Cancer
**Alexandre Tavartkiladze, Georgia**

**PP.45**
Circulating Tumor Cells (CTCs), Melatonin, and uNOS: New Frontiers in Cancer Diagnosis and Treatment
**Alexandre Tavartkiladze, Georgia**

**PP.46**
Prognostic and Predictive Non-Invasive Biomarkers in Cutaneous Melanoma Treated With Anti PD-1 Antibodies
**Susana Torres-Martínez, Spain**

**PP.47**
Nanoscopic Cancer Biomarkers Characterization of Extracellular Vesicles in Liquid Biopsy
**Mouna Triki, France**

**PP.48**
Refinement of MRD Assessment in Hairy Cell Leukemia by Integrated Molecular and Flow Cytometry Analysis
**Giulia Urbani, Italy**

**PP.49**
NGS Testing on Plasma-based ctDNA Samples at Key Clinical Timepoints in Advanced NSCLC: Handling of Blood Samples and Real-World Experience
**Michela Verzè, Italy**

**PP.50**
Prognostic Significance of Circulating Tumour Cells and Disseminating Circulating Tumour Cell Clusters in Epithelial Ovarian Cancer
**Mark Ward, Ireland**

**PP.51**
Multilayer Characterization of Plasma EV Concentration and Cargo Allows to Diagnose and Monitor Glioblastoma by Liquid Biopsy
**Elena Zaccheroni, Italy**

**PP.104**
Technical Evaluation of a Novel dPCR Approach in the Molecular Testing of Routine
**Francesco Pepe, Italy**

## Clinical Trials Including Liquid Biopsies

**PP.52**
Liquid Biopsy-based Risk Stratification and Intensification of Treatment In EGFR Mutant Advanced NSCLC (L-BRITE)U
**Hemavathi Baskarane, India**

**PP.54**
Following Therapy Response Through Liquid Biopsies in Metastatic Colorectal Cancer – The Patient's Experience
**Katleen Janssens, Belgium**

**PP.55**
Impact of PROphet Assay in Changing Physician's Therapeutic Decision-Making for Checkpoint Immunotherapy in NSCLC (Non-Small Cell Lung Cancer)
**David Gandara, United States**

**PP.56**
The Prognostic Value of the Circulating-Tumor DNA in High-Grade Serous Epithelial Ovarian Cancer: Experience From MITO-16a/MANGO-OV2a/ Clinical Trial
**Lara Paracchini, Italy**

**PP.103**
BLU-945 Monotherapy and Combination With Osimertinib in Previously Treated Patients With Advanced EGFR-Mutant (EGFRm) NSCLC in Phase 1/2 SYMPHONY Study
**Pedro Bosch, Spain**

## Composite Biomarkers Using Liquid Biopsy

**PP.57**
Circulating PD-L1 and TIM3 as Prognostic Markers in Patients With Advanced Non-small Cell Lung Cancer Treated With Immune Checkpoint Inhibitor
**Simona Coco, Italy**

**PP.58**
Network Analysis Identifies Circulating miR-155 as Predictive Biomarker of Type 2 Diabetes Mellitus Development in Obese Patients: A Pilot Study
**Elisabetta Ferretti, Italy**

**PP.59**
Comparison of Tumor-associated miRNAs in EpCAM+, CD47+ and CD29+ Extracellular Vesicles (EVs) Immunomagnetically Enriched From Cancer Patients' Plasma
**Francesca Fontana, Italy**

**PP.60**
Liquid Biopsies: Uncovering Insights That Drive Development and Commercialization in the Clinic
**Jeffrey Jones, United States**

**PP.61**
IMPRESS: Improved Multiplex Methylation Profiling Using Restriction Enzymes and smMIP Sequencing for Highly Sensitive Multi-Cancer Detection
**Isabelle Neefs, Belgium**

**PP.62**
Liquid Biopsy Characterization of CTCs and THCs Isolated in Patients with UC
**Carolina Rubio Martín, Spain**

**PP.63**
Unleashing the Potential of Exosomal MALAT1 lncRNA in Liquid Biopsy: A Promising Approach for Wilms Tumor
**Diwakar Sharma, India**

**PP.64**
Characterization of Plasma Derived Cell Free Nucleic Acid-Based Markers for Disease Monitoring in Acute Myeloid Leukemia
**Deepshi Thakral, India**

**PP.102**
PIK3CA Testing in HR+/HER2– Metastatic Breast Cancer: Real-world Data from Referral Molecular Pathology Labs
**Venetis Konstantinos, Italy**

# Liquid Biopsy Beyond ctDNA

**PP.08**
Comprehensive Analysis of Preanalytical Parameters in cfDNA from Lung, Colon, and Breast Cancer Patients
**Valeria Cecilia Denninghoff, Spain**

**PP.65**
Optimization of CTCs and THCs Isolation From Human Blood Based on Genesis Technology as a Strategy of Urothelial Carcinoma Monitoring
**Ignacio Arévalo Reina, Spain**

**PP.66**
See.d®, a Novel Automated Platform To Standardize Blood Sample Processing for Cells on SBS® Slides and Plasma for Liquid Biopsy
**Lorenzo Bascetta, Italy**

**PP.67**
Extracellular Vesicles Carry SARS-COV-2 Proteins Associated With Lower Antibody Production, Cardiovascular Complications, and Worse Outcomes in Patients With Severe COVID-19
**Diego de Miguel Perez, United States**

**PP.68**
Gene Analysis in Aggressive Breast Cancer: Clinical Evidence for the Utility of ctDNA
**Brahim El Hejjioui, Morocco**

**PP.69**
Detection of GALNT13 in Circulating Tumor Cells of Non-small Cell Lung Cancer (NSCLC) Patients. A Potential New Liquid Biopsy Biomarker
**Eugenia Fernández Armúa, Uruguay**

**PP.70**
Prospective On-Treatment Dynamics of Circulating Extracellular Vesicles in the First-Line Setting of Patients With Advanced Non-small Cell Lung Cancer
**Valerio Gristina, Italy**

**PP.71**
Total RNA-Sequencing From Plasma Cell-Free RNA To Identify Predictive/Prognostic Biomarkers in Metastatic Castration-Resistant Prostate Cancer Patients
**Giorgia Gurioli, Italy**

**PP.72**
Fully Automated Cell-Free DNA Extraction From Up to 8 ml Plasma Enables Sensitive Mutation Detection With Digital PCR and NGS
**Tobias Hampshire, United Kingdom**

**PP.73**
Development of Automated cfDNA Extraction From Various Plasma Volumes and Implications on Sensitivity and Reproducibility of qPCR and dPCR Analysis
**Tobias Hampshire, United Kingdom**

**PP.74**
Analysis of Immunoregulatory Genes Expression in PBMCs as Potential Predictive and Prognostic Biomarkers in NSCLC Patients Treated with Immunotherapy
**Andrea Moreno Manuel, Spain**

**PP.75**
TCR-β Repertoire as a Source of Biomarkers for anti-PD1 Treatment Alone or in Combination With Chemotherapy in Advanced-stage NSCLC Patients
**Andrea Moreno Manuel, Spain**

**PP.76**
YES1 as a Possible Liquid Biopsy Biomarker in Lung Cancer
**Nerea Otegui, Spain**

**PP.77**
Use of Circulating Extracellular Vesicles and CtDNA From Lymphatic Fluid Exudate as Markers for Minimal Residual Disease in Melanoma Patients
**Héctor Peinado Selgas, Spain**

**PP.78**
Pulmonary MicroRNA Profiling in a Rat Model of Ventilator-Induced Lung Injury
**Gema Sánchez Helguera, Spain**

**PP.79**
An End-To-End cfRNA-Seq Pipeline for Early Cancer Detection From Liquid Biopsy
**Phil Sanders, Spain**

## Liquid Biopsy in Early Detection for Cancer

**PP.19**
Impact of Liquid Biopsy Preanalytics on cfDNA Fragmentation Analyses
**Ariane Hallermayr, Germany**

**PP.80**
Enhanced Blood Sampling for Ultra-sensitive Detection of ctDNA and CTCs in Neoadjuvant-treated Early Breast Cancer Patients
**Alfonso Alba-Bernal, Spain**

**PP.81**
Utility of Ultra-Low-Pass Whole Genome Sequencing in Bile CfDNA for the Management of Patients With Biliary Strictures
**Maria Arechederra, Spain**

**PP.82**
PD-L1 and BRAFV600E Expression on CTCs from Early-stage Colorectal Cancer Patients
**Ines Aznar-Peralta, Spain**

**PP.83**
Early Non-Small Cell Lung Cancer Heterogeneity and Recurrence Assessed by Tissue Next-Generation Sequencing Genotyping and Circulating Tumor Cell EZH2 Characterization
**Abel Garcia Diaz, Spain**

**PP.84**
High-Throughput Secretome Profiling of Early Breast Cancer
**Isabella Lombardo, Italy**

**PP.85**
Novel and Non-invasive Tool for Immunotherapy-Response Prediction in Non-muscle-Invasive Bladder Cancer Patients Based on miRNAs and Cytokine Detection in Urine
**Álvaro Martín De Bernardo, Spain**

**PP.86**
Detection of Somatic Alterations in Peritoneal Lavages of Early-Stage Endometrial Carcinoma Patients
**Clara Mayo De Las Casas, Spain**

**PP.87**
Highly Sensitive Detection of ctDNA in Early Breast Cancer using Plasma-SeqSensei™ and Droplet Digital PCR with Increased Blood Volumes
**Victoria Sanchez-Martin, Spain**

**PP.101**
Next-Generation Sequencing Analysis of Extracellular Vesicle microRNAs for Breast Cancer Staging
**Coral González Martínez, Spain**

**PP.88**
EPIC Array Study in Liquid Biopsy Identifies a Non-invasive Epigenetic Signature for Early Diagnosis in Non-small Cell Lung Cancer
**Juan Sandoval, Spain**

**PP.89**
Technological Platform Development for Early Cancer Detection, Towards a Focused Multi-Cancer Detection
**Cintia Celina Vaquer, Argentina**

**PP.90**
Prognostic Potential of Candidate miRNAs in Lung Cancer: Insights from Tissue and Liquid Biopsies
**Olga Vera, Spain**

**PP.91**
Development of a Horizontal Data Integration Classifier for Non-invasive Early Diagnosis of Breast Cancer: Preliminary Results From the RENOVATE Trial
**Martina Dameri, Italy**

## Miscellaneous

**PP.100**
Extracellular Vesicles As Mediators of Resistance to EGFR-Tyrosine Kinase Inhibitors in Non-Small Cell Lung Cancer Preclinical Models
**Marina Pérez Capó, Spain**

**PP.92**
Technical Advancements in cfMeDIP-Seq Library Preparation
**Martina Dameri, Italy**

**PP.93**
Somatic Mutation Calling from cfDNA Using Machine Learning
**Shaya Akbarinejad, Germany**

**PP.94**
Impact of cfDNA Input on Enzymatic Methylation Conversion and Library Preparation Robustness
**Arianna Bertossi, Slovenia**

**PP.95**
The Direct Interaction Between Lung Cancer Cells and Platelets Promotes Resistance to Chemotherapy
**Jorge Cerón-Hernández, Spain**

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