

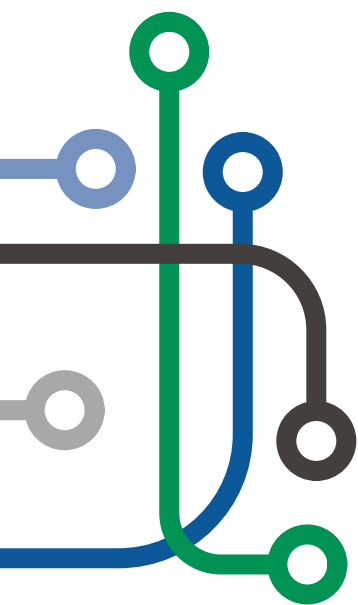


SERVIZIO SANITARIO REGIONALE
EMILIA-ROMAGNA

Istituto Romagnolo per lo Studio dei Tumori "Dino Amadori"
Istituto di Ricovero e Cura a Carattere Scientifico

ISTITUTO
ROMAGNOLO
PER LO STUDIO
DEI TUMORI
DINO AMADORI

TECHNOLOGY ASSETS & SERVICES



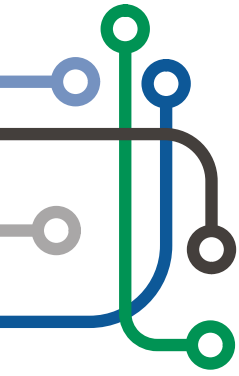
tto.urttf@irst.emr.it



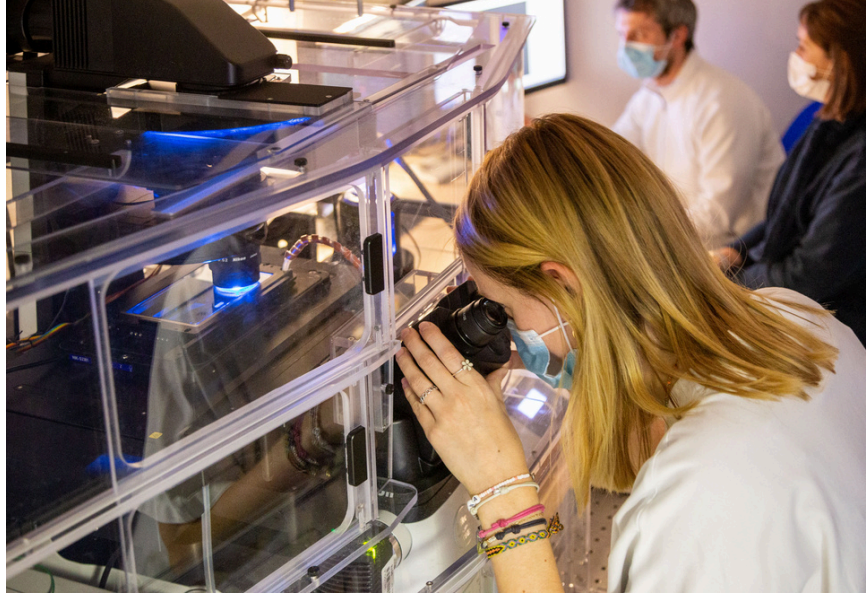
Via Piero Maroncelli, 40, 47014 Meldola (FC)



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BIOSCIENCE LABORATORY



The IRST Biosciences Laboratory (HTN LAB) represents the core of **translational research and advanced molecular diagnostics** activities at IRST.

Covering an area of approximately **500 square meters**, it is a multifunctional facility organized into two main areas:

- **The Advanced and Predictive Molecular Diagnostics Area**, which performs biomolecular characterization activities supporting personalized clinical pathways.
- **The Research Area**, divided into four specialized sectors: Preclinic and Osteon oncology, Translational Hematology, Translational Oncology, and the Animal Facility.

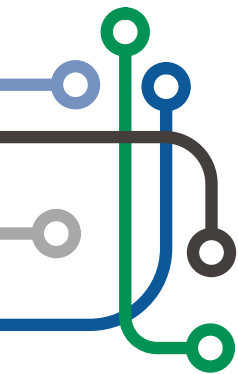
A distinctive feature of the HTN LAB is its strong focus on **personalized medicine**, achieved through the identification and validation of diagnostic, prognostic, and predictive biomarkers, including toxicity markers and pharmacogenomic profiles.

The laboratory is also integrated into the **High Technology Network of the Emilia-Romagna Region and the CLUST-ER Life Sciences Association**, promoting innovation and technology transfer in synergy with universities, companies, and public institutions.

Through its multidisciplinary expertise and advanced facilities, the IRST HTN LAB **supports the industrial sector in the development of innovation projects, experimental validation, and technological optimization.**

The HTN LAB is structured into specialized units staffed by professionals with extensive **experience in specific research fields** and the expertise needed to develop new projects across diverse scientific domains.





EQUIPMENT



The laboratory is equipped with state-of-the-art technologies for oncological research and molecular diagnostics, including:

- Next Generation Sequencers (NGS) for genetic and genomic analyses — NovaSeq 6000, NextSeq 550 Nucleotide Sequencing Analyzer.
- Instrumentation for the identification and quantification of circulating and tissue biomarkers (cellular, vesicular, genetic, and epigenetic) — 10x Genomics Nucleotide Sequencing Analyzer, GeoMx™ Digital Spatial Profiler.
- Production platforms for monoclonal and bispecific antibodies — Phage Display technology.
- Systems for the study of circulating tumor cells (CTCs) — DEPArray Cell Isolator.
- Confocal microscopes for deep imaging and high-resolution cellular analysis — Nikon A1 Confocal Microscope.
- Animal Facility with dedicated housing for zebrafish (preclinical models) and mice (preclinical models).
- Fully equipped laboratories for cell culture and in vitro experimentation — Optima XPN Ultracentrifuge.
- Infrastructures for advanced molecular characterization and integrated management of biomolecular data.

SERVICES

The Biosciences Laboratory offers a wide range of services supporting preclinical and clinical research, industry, and the scientific network, including:

- Advanced molecular diagnostics: identification of circulating and tissue biomarkers to personalize therapeutic pathways.
- Translational research: development and validation of new diagnostic, prognostic, and predictive biomarkers of clinical response.
- Pharmacogenomics and toxicity: definition of molecular profiles predictive of response and tolerance to oncological treatments.
- Clinical study support: integration of biomolecular analyses with clinical data to enhance experimental protocols.
- Co-development and technology transfer projects: collaboration with companies, universities, and institutions for research and development activities.

CONTACT

Headquarters

IRST "Dino Amadori" IRCCS,
via P. Maroncelli 40, 47014 Meldola (FC)

Operating Office

Business Development Unit

Scientific Coordinator: Dr.ssa Paola Ulivi

Business Development

Dr. Luca Battistelli - tto.urttf@irst.emr.it





tto.urttf@irst.emr.it
Via Piero Maroncelli, 40, 47014 Meldola (FC)
www.irst.emr.it