

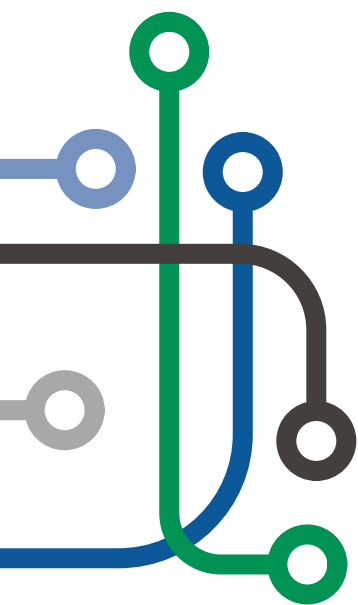


SERVIZIO SANITARIO REGIONALE  
EMILIA-ROMAGNA

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



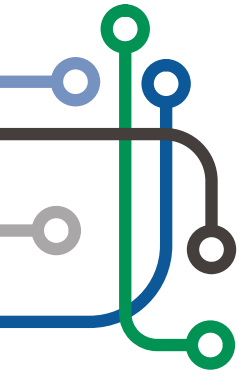
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# BIOBANK

The Biological Resource Centre (BRC) of the Romagna Institute for the Study of Tumours Dino Amadori - IRST IRCCS is a certified oncology biobank, operational since 2016, dedicated to the collection, processing, storage and distribution of human biological samples for oncological and translational research.

Located at the IRST facility in Meldola (FC), within a 220 m<sup>2</sup> access-controlled and video-monitored area, the BRC operates as a dedicated unit of the SSD Advanced Cell Therapies and Rare Tumours. The facility is divided into two main sections: one for sample storage and one for sample processing.

Every day, the processing laboratory receives blood samples from IRST departments in Meldola (Day Hospital, Inpatient Ward, Outpatient Clinics, Nuclear Medicine, Radiotherapy) and from satellite sites in Cesena, Ravenna and Forli, ensuring full traceability of every specimen.

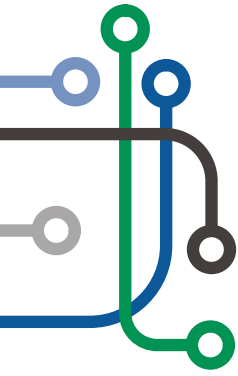
The BRC is a recognised regional reference oncology biobank, a node of the European BBMRI-ERIC network (partner charter signed in 2021) and a member of the Italian RIBBO network. It actively participates in initiatives promoted by the Ministry of Research, BBMRI.it, ACC and Accredia for the accreditation of research biobanks.

Collected and stored biological material includes: tumour and healthy tissue not used for diagnostic purposes, plasma, serum, cellular fraction, whole blood, peripheral blood mononuclear cells (PBMCs) and urine. Samples cover all major solid oncological tumour types, including rare tumours.

| <b>80,901</b><br>Blood & derivatives | <b>3,767</b><br>Tissue samples | <b>2,266</b><br>Urine Samples |
|--------------------------------------|--------------------------------|-------------------------------|
| Main Tumor Type                      | Tissue Samples (estimate)      |                               |
| Colorectal                           | ~3,000                         |                               |
| Stomach                              | ~700                           |                               |
| Liver                                | ~500                           |                               |
| Lung                                 | ~300                           |                               |
| Melanoma                             | ~100                           |                               |
| Pancreas                             | ~150                           |                               |
| Rare tumours and others              | ~200                           |                               |

*All major solid tumour types are represented, including rare tumours. The tissue biobank covers more than 15 different histotypes collected over the period 2013-2025.*





# EQUIPMENT

The BRC is equipped with state-of-the-art instrumentation to ensure the highest quality in sample storage and management:

- Ultra-low temperature freezers at -80 degrees C and cryogenic systems at -120 degrees C for long-term storage of blood and tissue samples
- Computerised sample management and traceability system (compliant with GAMP 5 and 21 CFR Part 11)
- Equipment for blood sample processing: centrifuges, cell separators and automated aliquoting systems
- Microtome and cryostat for preparation of histological sections from paraffin-embedded blocks (service activity since 2018)
- Automated tissue and cell line embedding system
- Access-controlled and video-monitored area compliant with biosafety standards

# SERVICES

The BRC manages the following core activity areas:

- Institute Oncology Biobank: collection of blood and tissue samples with informed consent approved by CEROM; management of the research biobank active since 2013.
- Historical Collections: management of tissue samples collected from the late 1990s to 2012 in the Medical Oncology unit of AUSL Forli and, from 2008 onwards, at IRST.
- Clinical Studies: storage and management of biological samples from all sponsored and non-sponsored clinical studies conducted at the Institute.
- Service Activities (since 2018): preparation of histological sections from paraffin-embedded blocks and embedding of tissues and cell lines for the IRST Biosciences Laboratory, at the Pathological Anatomy unit of AUSL Romagna in Forli.

Access to samples follows a structured workflow:

- The researcher submits a formal request for biological material to the IRST BRC
- Verification of sample availability and ethical compliance of the request
- Shipment or delivery of biological material according to certified logistics protocols
- **BBMRI-ERIC**: recognised node of the **European Research Infrastructure of Biobanks and Biomolecular Resources**; partner charter signed in 2021
- **RIBBO**: member of the **Italian Network of Oncology Biobanks** at national level
- Emilia-Romagna Regional Function: lead institution in the Region-University 2010-2012 research programme for establishing a regional network of solid tumour biobanks
- Hub-and-spoke collaboration with oncologists, pathologists and surgeons of AUSL Romagna for the systematic collection of biological material across the Romagna territory
- Operational standards: **ISO 9001**, **GAMP 5**, **GMP** and compliance with national and European ethical regulations

# CONTACT

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