

# National Cancer Institute: Innovation & Technology transfer

**IRCCS | Research Hospital**  
Istituto di Ricovero e Cura a Carattere Scientifico



Laboratory research



Clinical research



Epidemiology  
and biostatistics

## CRO IN NUMBERS

**60**

New Clinical trial/year

In 2018 200 clinical-experimental protocols (profit and non-profit) were active in collaboration with pharmaceutical and diagnostic industries.

**8295**

Hospitalizations/year

**268**

Publications/year

In 2018 CRO's staff included 653 people (of whom 109 physicians) and 90 young research fellows. CRO hosts on average 30 residents in medical oncology and other relevant disciplines and 30 PhD students.

**18**

Patents

**4**

Spin off

**3**

Commercial products

**12**

Industrial research projects

In 2017 CRO Campus hosted the first Technology Transfer School addressed to researchers from Italian IRCCS.

## NEW PROJECTS

Biomarker for platinum treatment against different cancer types

Factors affecting sensitivity to MDM2 inhibitors in TP53 wild type tumors



Chemotherapy: Irinotecan/Imatinib drug monitoring

Clinical decision support tool  
Software to guide therapy selection and dosage with pharmacogenetic information

## UP-COMINGS

New biomarkers identification and related assays development

Car-T development

## AREAS OF INTEREST

Tumor genetics and biology

Hematological neoplasias

Solid tumors

Infectious agents associated tumors

Cancer epidemiology and prevention

## EXPERTISE AND FACILITIES

Sequencing  
Functional Genomics  
Gene/microRNA expression profiling  
Epigenetics

Proteomic analyses

Cytofluorimetry

Microscopy and Imaging

Spectroscopy

Pre-clinical cancer model in- vivo (animal facility)  
Pre-clinical cancer model in-vitro  
Tissue Biobank

Pathological anatomy

Nanomedicine

Bioengineering

Bioimmunotherapy  
Cell Therapy program/Cell Factory (available in 3 years)  
Radiotherapy and Imaging Diagnostic

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