



# GEMELLI SCIENCE AND TECHNOLOGY PARK

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Omics guided radiotherapy prescription. Clinical tools for external beam: the colon-rectal experience. Clinical tools for interventional radiotherapy: ENT, Gyn and Skin experience

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Camilla Nero

# Background

Unmet needs



FRAGMENTATION



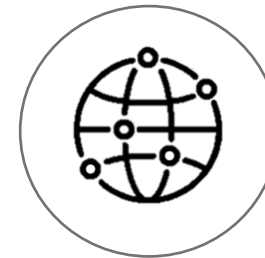
ACCESS TO  
INTEGRATED  
MULTI OMICS  
DATABASES



ACCESS TO  
DEDICATED  
EXPERTISE



ACCESS TO  
CUTTING EDGE  
TECHNOLOGY

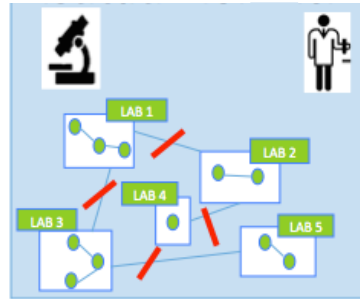


NETWORKING

# Rationale

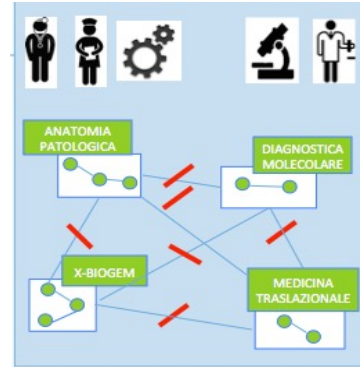
A Science and Technology Park

IST. BIOLOGICI



BASIC SCIENCES

POLICLINICO



CLINICAL SCIENCES

RESEARCH  
INFRASTRUCTURE



CORE FACILITIES



**G\*STeP**  
*Gemelli Science and Technology Park*

21 RESEARCH CORE FACILITY



# G-STeP

## Facilities and infrastructure



**VIRTUAL TOUR**



### OMICs

GENOMICS

LIQUID BIOPSY

MICROBIOTA ANALYSIS  
& MICROBIAL WGS

PROTEOMICS &  
METABOLOMICS

RADIOMICS

SINGLE CELL ANALYSIS



### DATA

BIOINFORMATICS

DATA COLLECTION

EPIDEMIOLOGY &  
BIostatISTICS

REAL-WORLD DATA

### BASIC SERVICES

3D BIOPRINTING

BIOBANK FOR  
PERSONALIZED MEDICINE

ELECTROPHYSIOLOGY

EXPERIMENTAL MODELS

FLOW CYTOMETRY

IMMUNOLOGY

IMMUNOHISTOCHEMISTRY

MICROSCOPY

ORGANOIDS

PREANALYTICAL  
AND CELL BIOLOGY

## G-STeP

Easy access, tracking, metrics

<https://gstep.policlinicogemelli.it/#/>