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**Roma, 11.12.2024**

**Polo GGB** has provided top-level services to Universities, Industries and Diagnostic laboratories in genomic, genetic and bioinformatics fields since 2011.

**Polo GGB has recently expanded its spectrum of activities by creating three different core facilities**

# Polo GGB DIVISIONS

**BREAKING  
DOWN THE  
KNOWLEDGE  
BARRIERS**

**SUPPORT THE  
HEALTH  
DIAGNOSTIC  
NEEDS**

**IMPLEMENTATION  
OF NEW GENETIC  
TOOLS**

**CREATE  
VALUE FOR  
SOCIETY**

**Genomics &  
Bioinformatics  
Laboratory  
Authorized for  
Clinical  
Diagnosis**

**1.**

**Genetics  
& Ecology  
Research  
Center**

**2.**

**Immunology  
Laboratory**

**3.**





# SIENA 1.

## Diagnostic Service Laboratory

The Laboratory for Diagnostics, Genomics and Computational Analysis based in SIENA within the Toscana Life Sciences Incubator combines basic genetics techniques with the most advanced Next Generation Sequencing techniques for human DNA and RNA analysis.

### Authorizations & Certifications

- **Genetics of inherited diseases**
- **Genetics of polygenic/multifactorial diseases**
- **Personalized medicine**
- **Genetic counseling**
- **Oncology**
- **Pharmacogenetics**
- **Reproduction**



# SPOKE 8 Clinical Exploitation

““Extensive sequencing for the molecular characterization of tumor samples and liquid biopsies and comparison with in-house techniques”

**TITOLO:** sUCCESs “Utilità clinica e sostenibilità economica di servizi esternalizzati di Comprehensive Genomic Profiling (CGP) per tumori solidi nella pratica clinica oncologica.”

## STATE OF THE ART:

- Creation of a case report form (CRF) for the collection of clinical, anamnestic and pharmacogenetic data, useful for the design of machine learning and AI algorithms.
- Centers involved in the collection of samples:
  - ❖ Santa Chiara - Oncologia Medica - Pisa
  - ❖ Università Studi - Verona
  - ❖ IRE-IFO IRCCS Regina Elena - Roma
  - ❖ Ospedali Riuniti - Foggia.