

A dedicated portfolio of services for your research in hemato-oncological and hematological disorders

## THERAPEUTIC FOCUS

- Leukemia (AML, CML, ALL, CLL)
- Lymphoma (Hodgkin, non-Hodgkin)
- Multiple myeloma
- Myelodysplastic Syndroms (MDS)



## CLINICAL STRENGTHS

- Large-scale network of collaborations with key experts
- Well annotated biobank of viable patient samples (genome, transcriptome, epigenome, metabolome)
- Relevant know-how in phase I-II-III studies
- Clinical trials for new drugs on hematological diseases, including immunotherapeutic approaches (biologicals, ADCs, CAR-T cell therapy)
- Biomarkers for de novo detection, clonal heterogeneity & MRD
- Biomarker discovery for patient stratification

## PRECLINICAL CAPABILITIES

- In vitro bone marrow stromal cell-based coculture systems for high throughput drug screening
- In vivo patient-derived humanized niche xenograft leukemia clinic for preclinical drug testing (models available for >30 patients)
- Expertise in gene-function analyses in human hematopoietic stem and progenitor cell populations and in leukemic stem cells
- Gene expression profiling, quantitative proteome profiling
- Technologies to study epigenetics in normal and leukemic stem cells
- Screening technologies for novel leukemic stem cell markers
- Development of novel immunotherapeutic approaches

## SAMPLE COLLECTIONS

- Patient cohort studies on Hodgkin lymphoma, AML, ALL, MDS, CLL, multiple myeloma
- Possibility of de-novo sampling in patients
- Biomarker discovery and validation in general population biobank (167.000 subjects)
- Sampling: DNA, RNA, serum, plasma, peripheral blood cells

## BIOANALYTICAL SOLUTIONS

- **Specialty assays for hematologic diseases:**
  - Plasma membrane markers
  - Minimal residual disease (MRD)
- Flow cytometric immunophenotyping of normal, reactive and malignant leukocytes
- FACS analysis of membrane and intracellular biomarkers & cytokines
- Gene expression patterns
- TARC/CCL17
- Genetic & epigenetic biomarkers
- Advanced proteomics