



Oncology

Combining classic and cutting-edge in vitro and in vivo research

The BioDuro Advantage

- A scientific team with a strong background in oncology and drug discovery
- 13 years of CRO experience in the oncology field, since 2005
- Historic database, well-established methods, SOPs and protocols
- Advanced cancer research models, including 3D platform with hundreds of early passages of human tumor samples
- High quality, customer-focused service

Preclinical Services

BioDuro Oncology supports our customers with the best preclinical solutions for anti-cancer drug discovery in an integrated drug discovery team composed of medicinal chemistry, analytic, DMPK, formulation and GMP manufacture.

With an experienced scientific team and a panel of validated assays and cancer animal models, we assist pharmaceutical companies and academic researchers in the discovery of novel drug targets and evaluation of anti-cancer compounds or biologicals.



Cellular model based assays

- **hTME-3DX Screen and Verify™**: a first in class, drug screening platform combining humanized 3D cell culture and patient derived xenograft models, across a set of 300 proprietary tumor models
- 2D single layer and 3D cancer cell spheroid culture and assay
- Drug target validation
- Drug efficacy evaluation
- Cancer cell apoptosis, migration and invasion
- Biomarker analysis (RT-PCR, Western blot, FACS)

Cancer animal models

- CDX, PDX, syngeneic mouse models
- Subcutaneous, ortho-topic (liver, lung, colon, breast, brain, prostate) and metastatic tumor models
- Systematic leukemia, lymphoma and multiple myeloma models
- Live phase tumor imaging for luciferase-labeled tumor models
- PK/PD, general early toxicity study
- Histology and IHC analysis

Immuno-oncology

- PBMC, B, T and NK cell isolation
- T and NK cell activation and proliferation
- Immune-phenotyping with multi-color FACS
- Immunocytes and cytokine infiltration assay in 3D tumor cell spheroids
- Multiplex cytokine analysis, MSD
- PBMC or NK cell mediated cytotoxicity
- Antibody dependent cell-mediated cytotoxicity assay with multiple assay formats
- Syngeneic mouse model and humanized immunity system model