

# Oncology Services

**Our mission: To utilize a multi-disciplinary approach in identifying novel targets for new therapeutic entities to advance novel treatment for aggressive and refractory cancers.**

Southern Research offers a comprehensive portfolio of services to support oncology research and drug development programs at any phase—from basic research to market launch.

We've developed 7 FDA-approved cancer-fighting drugs to date and are ready to use our experience to help you develop the next one.

## DISCOVERY SERVICES

- Medicinal and Computational Chemistry
- Screening Services
  - High-throughput screening
  - Utilizing curated libraries
  - Functional assays
  - Custom assay designs
- Deep learning; Predictive and Generative AI Modeling
- In Vitro Efficacy
  - Biochemical assays
  - Cell-Based functional assays
  - MOA (cytotoxicity, apoptosis, cell cycle, invasion/migration, angiogenesis)
  - Custom *in vitro* assay/model development
- In Vivo Efficacy
  - Cell and tumor heterogeneity
  - Spatial transcriptomics
  - Biodistribution of systemic delivery of nucleotides
    - State-of-the-art Imaging System for *in vivo* and *ex vivo*
- Proof of Concept
  - Human tumor xenograft models
  - Syngenic tumor models
  - Orthotopic models
  - Custom *in vivo* model development



## PRECLINICAL SERVICES

- DMPK/TK
- Biomarkers Identification
- Safety and Biodistribution
- General Toxicology
- GLP IND-enabling Toxicology
- Clinical Pathology
- Immunogenicity



Learn more about our oncology research services.