

# Immuno-Oncology, Cancer Vaccine, & Oncolytic Virus Development Services

QUALITY TESTING SERVICES AND CUTTING-EDGE TECHNOLOGIES TO EMPOWER THE NEXT BREAKTHROUGH IN CANCER RESEARCH

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.

## ONCOLYTIC VIRUS SERVICES

- A wide range of *in vitro* and *in vivo* cancer efficacy models covering the full genetic and histotype diversity of the NCI60 panel
- Plaque assay titration for dose confirmation and biodistribution
- qPCR for biodistribution and transgene expression analysis
- *In vivo* immunogenicity assessment
- Flow cytometry characterization of immune response profiles
- General toxicity assessment
- Neurovirulence and neuropathological characterization
- Most services available with GLP compliance

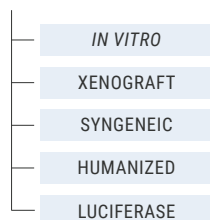
## HIT-TO-LEAD ASSISTANCE

- Therapeutic discovery, selection, & hit-to-lead optimization
- High-throughput screening
- Purification capabilities
- Computational chemistry
- Bio-analytics to assess drug-like properties
- Structural biology and protein crystallography

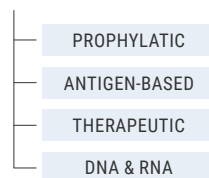
## CANCER VACCINE SERVICES

- *In vitro* efficacy
  - Mechanism of action
  - Custom assay/model development
- Immune characterization
  - Flow cytometry
  - Multiplexed immunoassays
  - Immunogenicity assessment
- IND-enabling toxicology
- Clinical trial support

## Tumor Models



## Cancer Vaccine Platforms



## Virus Types

- Adenoviruses
- Enterovirus
- Lentivirus
- Measles Virus
- Vaccinia Virus
- Adeno-Associated Virus
- Herpes Simplex Virus
- Newcastle Disease Virus
- Vesicular Stomatitis Virus
- Others, as needed

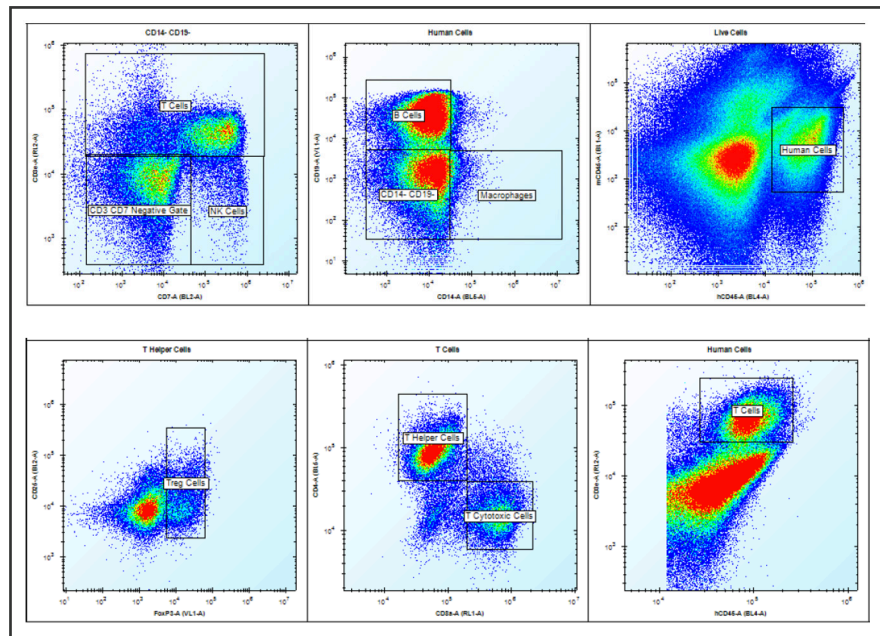
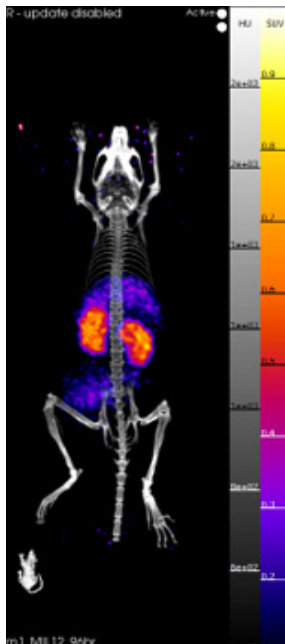
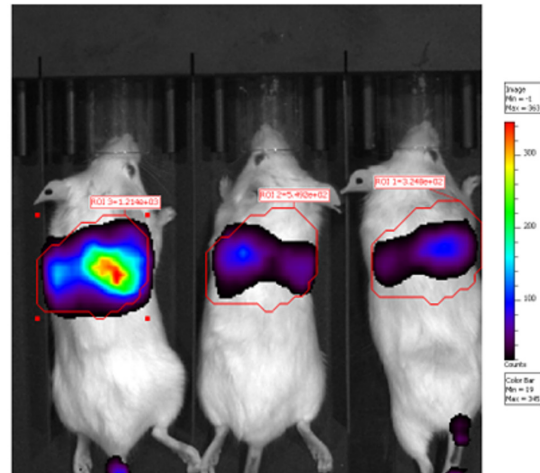
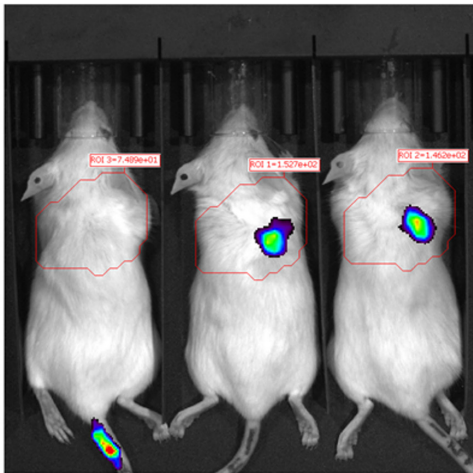


Learn more about our oncology research services.

southernresearch.org | sales@southernresearch.org

## ADDITIONAL SERVICES

- 3D Tumor and Organoid Additive Manufacturing for Mid Throughput Screening
- Organoid characterization
- Small Animal *In Vivo* imaging for biodistribution and disease progression
- Radiolabeled biodistribution of biologics



Learn more about our oncology research services.

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