

Your partner for timely, accurate and high-quality preclinical efficacy studies



Aragen is a preclinical CRO that offers comprehensive high-quality preclinical efficacy services to help advance your discovery efforts to IND. Collaborating with us provides you access to state-of-the-art facilities and a team of experts in *in vivo* disease models and *in vitro* and *ex vivo* assays that support multiple therapeutics/disease areas.



Experience that counts

15+ years of experience



Expertise that delivers

2000+ successful studies



Exemplary track record

15+ Programs in clinical development, most advanced in Phase II

The Aragen Advantage

- 15,000 sq ft vivarium and laboratory, Morgan Hill, California
- Local to San Francisco Bay Area
- *In Vivo*, *Ex Vivo*, *In Vitro* and Histology capabilities under same roof

- Vivarium and wet labs
- Multiple suites for rodent housing and procedure rooms
- BSL2 suite for infectious disease studies

- Active DEA registration
- Registered with USDA
- OLAW assurance for Government funded studies
- AAALAC accredited

- PhD Scientists with >15 years experience in academia and industry
- Technicians with >10 yrs experience in laboratory animals
- Expertise in Oncology, Fibrosis, Molecular Cell Biology, Immunology, Virology

- *In Vivo* imaging system (IVIS Lumina XRMS)
- Analytical instruments for respiratory functions (WBP, FlexiVent)
- *In Vitro*, *Ex Vivo* analyses (14-color FACS, MSD, Real Time qPCR, Jess Western)
- Histology & Digital Pathology

In Vivo Disease Models

Non-GLP Rodent Models

Oncology/IO Models

- Over 100 xenograft
- Over 20 syngeneic
- Subcutaneous
- Metastatic
- Orthotopic
- Imaging
- Humanized models
- Adoptive transfer
- CAR-T
- Vaccine
- Immunophenotyping

Fibrotic Disease

- Lungs
- Liver
- Kidney
- Scleroderma
- MASH-fibrosis

Inflammation

- 9 models

Infectious Disease

- 14 models
- Virus
- Bacteria

Wound Healing

- Diabetic Wound
- Incisional
- Excisional

Vaccine Immunogenicity

- Oncology
- Infectious Disease
- Cellular immunogenicity assays

Respiratory Disease

- Asthma
- Lung fibrosis
- Virus
- Acute Lung Injury

Immunological Disease

- 7 models
- Auto-immune
- Allergy

Custom Models

- Adapted from literature
- Tech transfer
- Assay development

In Vitro and Ex Vivo Assays

Immunology

- Immunophenotyping of tumors
- (FACS/Immunohistochemistry)
- FACS (up to 14 colors)
- PBMC subset analysis
- Cytokine profiling: multiplexed bead based & MSD
- ELISA/ELISPOT
- Cytotoxic T lymphocyte killing assay
- Proliferation, cytotoxicity, apoptosis
- ADCC, CDC, ADC

Molecular Biology

- qPCR
- 5' RACE
- Western Blot

Histology & Digital Pathology

- End-to-end core histology
- Special stains
- Immunohistochemistry
- Antibody optimization

Assays performed in

- Cell lines
- Primary human cells
- Fresh whole blood/PBMCs/purified
- Clinical samples (blood, serum, PBMCs)
- Ex Vivo assays (mouse rodent and human)

Cell Biology

- Cell cycle analysis
- Cell binding, receptor internalization
- ROS, phagocytosis
- Cell migration
- Mitochondrial function
- Clonogenicity assays
- Cell signaling

Virology

- Viral titration assays
- Viral neutralization assays
- Generation of viral stocks
- Cellular immunology

Additional Assays

- Western Blot
- Sircol soluble collagen
- Hydroxyproline assays
- AlphaLISA

Fibrosis

- Epithelial-to-Mesenchymal Transition (EMT)
- Fibroblast-Myofibroblast Transformation (FMT)
- Co-culture assay