



IN VIVO PHARMACOLOGY

Lovelace Biomedical provides **comprehensive in vivo pharmacology services to evaluate therapeutics in preclinical development** for a wide range of indications. Our skilled scientific team routinely develops and refines 100+ models of disease in both small and large animals, with the ability to create customized approaches for emerging drug classes.

Board-certified toxicologists (DABT) and pathologists (DACVP) - as well as expert biologists, engineers, chemists, statisticians, and technical staff support preclinical studies to determine safety and efficacy.

THERAPUTIC AREAS

- Allergy
- Acute lung injury
- Asthma
- Circulatory shock
- COPD
- Dermatitis
- Infectious disease
- Neurology and psychiatry
- Metabolic disease
- Pulmonary fibrosis
- Pulmonary arterial hypertension
- Radiation injury
- Renal toxin injury
- Spinal cord injury
- Traumatic brain injury
- Vascular disease
- Wound healing

DOUSING ROUTES

- Standard routes: IV, IM, IP, SC, PO
- Arterial (hepatic artery, carotid artery, or femoral artery)
- Inhalation (nose-only, head-only, or whole body)
- Intracerebral or intraventricular
- Intravenous infusion: bolus, intermittent, or continuous
- Ocular
- Oral or nasogastric

SUPPORT FOR FULL RANGE OF DRUG DEVELOPMENT

- Analytical/Bioanalytical Chemistry
- DMPK
- Formulation
- General Toxicology
- IND-enabling Toxicology
- Pharmacology
- Pathology
- Imaging

SPECIES



- Mouse
- Rat
- Ferret
- Hamster
- Guinea pig
- Rabbit
- Gottigen swine
- Yucatan swine
- Yorkshire swine
- Non-human Primate

Our in vivo pharmacology experience extends to a wide variety of small- and large- molecule delivery methods, including specialty routes, and is complemented by our offerings in pharmacokinetics, analytical chemistry, toxicology, and pathology. Studies can be run in compliance with GLP standards in species ranging from rodents to non-human primates.