

In Vivo Pharmacology



Therapeutic 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

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 large and small 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 also support preclinical studies to determine safety and efficacy.

Dosing Routes

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

Support for Full Range of Drug Development

- Analytical/Bioanalytical Chemistry
- DMPK
- Formulation
- GenTox
- IND-enabling toxicology
- Pharmacology

Species

- Canine
- Ferret
- Gottingen, Yucatan or Yorkshire swine
- Guinea Pig
- Mouse
- Non-human primate
- Rabbit
- Rat

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 nonhuman primates.