

Sinclair Research Center provides GLP-compliant In Vivo DMPK services from discovery through development in our state-of-the-art facility near Columbia, Missouri.

### Drug Discovery/Drug Development

- ☞ Pharmacodynamics
- ☞ Biliary Excretion (mouse, rat, dog)
- ☞ QWBA (In Vivo at Sinclair, Sectioning and Analysis Subcontracted)
- ☞ Blood, Plasma, and Tissue Concentration
- ☞ Volatile Collection
- ☞ Metabolic Caging for Multiple Species (rodent, cat, dog, goat, swine)

### Pharmacokinetics/Toxicokinetics

- ☞ Pharmacokinetics/Toxicokinetics
- ☞ Single or Multiple Dosing (In-life)
- ☞ IVGTT, OGTT, & Glucose Clamps
- ☞ Bioequivalence & Bioavailability
- ☞ PK/TK Analysis
- ☞ Meal Interference/Glycemic Challenge

### Routes of Dose Administration

- ☞ Parenteral (IV/SC/IM/IP)
- ☞ IV Infusion
- ☞ Intranasal
- ☞ Dermal / Intradermal / Transdermal patch
- ☞ Vascular Access Ports (VAP)
- ☞ Rodent Vascular and Non-Vascular Cannulas
- ☞ Ocular
- ☞ Auricular
- ☞ Rectal / Intravaginal
- ☞ Oral (gavage / liquid / tablet / capsule)
- ☞ Intracoronary / Intraventricular (percutaneous access)

### Test Facility and Species

- ☞ AAALAC Accredited Facility Since 1995
- ☞ Rodents
- ☞ Miniature swine (Sinclair, Yucatan, Hanford)
- ☞ Rabbits
- ☞ High Capacity for Large & Small Animal Species
- ☞ Canines
- ☞ Non-Human Primates
- ☞ Felines

### Analytical Support – Alliance Partner Service

- ☞ Discovery and GLP-compliant bioanalytical chemistry services
- ☞ Sample Analysis-Routine Bioanalysis
  - *Quantitative Analysis of Drug and Metabolites in Biological Matrices*
  - *Dose Formulation Analysis, Interference Testing*
- ☞ Analytical Method Development, Validation (Full, Cross, & Partial), Method Transfer & Sample Analysis (LC-MS/MS, HPLC, ICP-MS, and Immunoblots)
- ☞ Metabolite Characterization & Identification
- ☞ Immunoassays
  - *ELISA*
  - *Method Development and Validation, Routine Sample Analysis*
- ☞ SRC can also work with the Sponsor's in-house analytical laboratory or with a Sponsor designated analytical laboratory in support of the studies.