

## *In vivo* Pharmacology Services



With AAALAC accredited animal facilities, Pharmaron *in vivo* pharmacology services include oncology, metabolic diseases, CNS, pain, inflammation and other established animal models and procedures. Our *in vivo* pharmacology services can be stand-alone or coupled with *in vitro* biology, DMPK, toxicology and medicinal chemistry providing partners with integrated drug discovery services. Our large collections of human tumor xenograft models, human tumor tissue bank and pharmacogenomic information allow partners to select and identify relevant tumor models for compounds evaluation and help accelerate their drug discovery and development process.

### Oncology

- Validated 145 tumor models
  - Cell line-based human xenograft models
  - Murine syngeneic models
  - Patient-tumor derived models
- Type of studies
  - Maximum tolerated dose (MTD)
  - Dose-response efficacy studies
  - Combination therapies using cytotoxic/targeted/antibody-based therapeutics
- Translational medicine
  - Collection of frozen human tumors samples
  - Collection of paraffin-embedded human tumor tissue sections
  - Cancer pharmacogenomic studies
  - Biomarker/target evaluation

### Metabolic Disease Models

- Diet-Induced Obesity DIO (gDIO or eDIO)
- ob/ob (C57BL/6J)
- db/db (C57BL/KsJ)
- Zucker Fatty Rats
- Zucker Diabetic Fatty

### CNS Models

- Scopolamine-induced memory deficit model
- Cerebral hypoperfusion memory impairment model
- Kainic acid-induced hippocampus injury model
- Tg mouse models for Alzheimer's Disease
- Stroke (MCAO)

### Pain Models

- Neuropathic pain
  - Chronic constriction injury (CCI model)
  - Spinal nerve ligation (Chung model)
- Inflammatory pain
  - Arthritis models : AIA & CIA
  - Paw Edema/pain models : Carrageenan-, CFA-, formalin-, & NGF-induced

### Other Established Animal Models

- Hemostasis (Rabbits)
- Leucocytopenia (Rats)
- Intestinal Over Secretion/PK (Mice)
- Anemia (Canines)
- Wounding (Rats, Rabbits)

#### Contact Us

For more information on how Pharmaron can assist with your drug discovery & development programs in a cost-effective and quality manner, please contact us.