

## Services for Pre-clinical Pharmacokinetics (PK) and Drug Safety for non-GLP and GLP-regulated studies

PharmaNet/i3's bioanalysis expertise and capacity paired with the *in vivo* capabilities of PSL and Xenometrics combine seamlessly to expedite your drug discovery / lead identification and development programs and support your outsourcing requirements and goals.

Through our alliance, one phone call ensures there is a seamless flow of samples and results to support your research. The alliance companies share a common pride and commitment to provide sponsors with flexible capacity, rapid service, and accurate data.

We can support your drug discovery / lead identification program with:

**Fast PK Study Services:** In just 1 - 2 weeks (or less) we can complete standard PK studies and turnaround sample and data analysis in just 3 - 5 days.

**Efficacy Pharmacology Services:** Cardiovascular, CNS, inflammation, GI, and metabolic disease models.

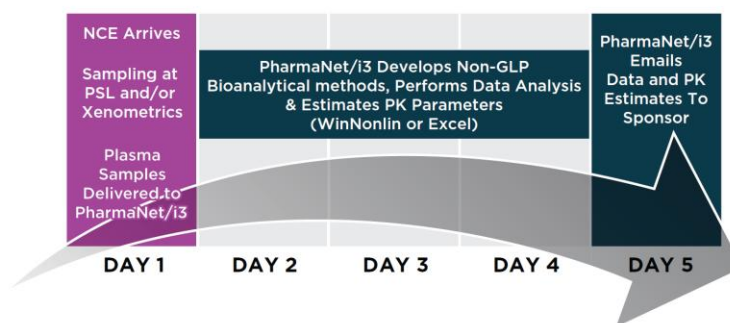
**Full Mammalian Species Offering:** Rodents, rabbits, dogs, mini-pigs, non-human primates, and other research species.

**Small to Large Molecule Experience:** Small molecule, oligonucleotide, peptide, and large molecule (biologics) test article experience.

**One Point of Contact and Expert Services:** With one phone call, you get the expertise that you need to support bioanalysis, and PK, efficacy pharmacology, toxicology, and safety pharmacology studies in one cohesive process.

- PharmaNet/i3: Bioanalytical Services
- PSL: *in vivo* PK, efficacy pharmacology, and toxicology services
- Xenometrics: *in vivo* PK, toxicology, and safety pharmacology services

Each partner provides dedicated resources for your project, from study design to data delivery, custom tailored to your needs.



**Services:**

## Non-GLP Services

- Lead optimization and exploratory
- High resolution mass spec (HRMS)
- Tissue analysis
- Mass spec in-vitro support
- Dried Blood Spot

## GLP Services

- Bioanalysis from pre-clinical to phase III
- Method development and validation
- Biomarkers
- Immunochemistry
- Protein quantification
- Immunogenicity services

**Equipment:**

## Mass spectrometers

- API 3000™, API 4000™, API 5000™
- Agilent 7500ce ICP-MS
- Finnigan TSQ™
- 7000 GC/MS/MS
- Thermo TSQ Quantum™ and Thermo TSQ Vantage™
- Thermo Exactive™ LC-HRMS

## Liquid chromatography systems

- Agilent 1100/1200
- Waters Acquity UPLC®
- Shimadzu 20 Series
- PerkinElmer® Series 200 HPLC System
- CTC PAL Autosamplers

## Robotic systems

- Tomtec Quadra4™ and Tomtec Quadra96®
- Hamilton MICROLAB® STAR
- PerkinElmer Janus® MultiPROBE® II EX HT
- PerkinElmer Janus® Automated Workstation

## Other instrumentation

- Meso Scale Discovery SECTOR® Imager 6000
- SpectraMax® M5 multi-mode microplate reader
- SpectraMax® Plus384
- Gel electrophoresis
- Gamma counter (RIA)

**Services:**

- Drug Metabolism and PK
- Efficacy and Safety Pharmacology
- General Toxicology (MTD, DRF, Acute, Subchronic, and Chronic)
- Reproductive and Developmental Toxicology
- Neurotoxicology
- In-house Pathology Services (Necropsy Suites, Histology, Micropathology, Clinical Pathology)

**Facilities:**

- EPA and FDA approved, USDA Registered, and AAALAC Accredited
- Rodents, rabbits, dogs, mini-pigs, non-human primates, and other research species
- Licensed for radioactive materials
- Licensed for controlled substances (CII-CV)
- Over 90,000 sq.ft.; sq. ft. of dedicated vivarium and modern laboratory space
- Dedicated surgery suite
- Metabolism caging / housing when required

**Equipment:**

- Robotic High Capacity Tunnel Washers
- Hobart Mixers
- Advia 1650 Chemistry Analyzer
- Advia 120 Hematology
- Stago Compact Coagulation Analyzer
- FACSCalibur Flow Cytometer
- Shandon Gemini Stainer
- IVOS – Sperm Analyzer
- Coulbourn Acoustic Startle Instruments
- Radiotelemetry
- SurgiVet Advisor Vital Signs Monitor
- BioMedic Data Systems 5001 Scanner
- Biopac data acquisition system
- IDEXX VetStat blood gas analyzer
- Bayer DCA chemistry analyzer