



## Non-Rodent Toxicology Services Dog, Minipig, Primate

### Moving client compounds swiftly into human studies and onto the market

Ricerca Biosciences Drug Safety Assessment offers a comprehensive panel of safety evaluations and general toxicology services, coupled with extensive experience to support preclinical drug development through NDA filing. Our quality of execution and commitment to on-time delivery enables us to deliver superior value to pharmaceutical and biotechnology companies.

### Animal welfare

Ricerca Biosciences is committed to the enhancement of animal health and welfare. We honor an organizational commitment toward the ethical and humane use of laboratory animals, paying particular attention to the housing conditions and environmental enrichment of our animal species.

#### General toxicology

- Acute to chronic studies (1 month to 1 year)
- Dermal studies (minipig)
- Biomarker identification
- Experience with biologicals & primates

#### Routes of administration

- Oral gavage
- Intravenous bolus injection
- Subcutaneous, intramuscular injection
- Infusion
- Dermal application
- Intranasal

#### Juvenile toxicology

- Most routes of administration available
  - Oral gavage from birth
  - Oral dosing for juveniles by bottle feeding
- Ophthalmoscopy

#### ADME

- Excretion mass balance
- Tissue distribution

#### Safety pharmacology specialities

- Cardiovascular telemetry (dog, primate)

#### Immunotoxicology

- Immunosuppression/immunostimulation
  - Histology of lymphoid organs
  - Serum immunoglobulin
  - Allergy/immunogenicity
  - Lymphocyte subset analysis
  - Cytokines/chemokines inflammatory markers

#### Support services

- Histology
- Formulation analysis
  - HPLC transfer and validation methods
  - LC/MS methods
- Analytical chemistry for dose analysis
- Custom radiochemical synthesis
- Toxicokinetic/pharmacokinetic modeling

*Ricerca Biosciences employees have one goal in mind – to meet your next milestone on time with quality*

#### Ricerca Biosciences Advantages

- Comprehensive toxicology services
- International recognition by AAALAC for commitment to animal welfare
- Specialized regulatory and scientific expertise
- Speed and flexibility
- Access to historical data

#### Core services

- Regulatory/general toxicity
- Carcinogenicity studies
- Immunotoxicity
- Local tolerance
- Safety pharmacology core battery: cardiovascular, CNS, respiratory
- Supplemental safety pharmacology studies
- In vitro toxicology
- Histology and pathology
- GLP characterization of test and control articles