

Nonclinical Service

1) *In Vitro* Cardiac Safety

Pharmacology: Characterizing hERG inhibition and the CiPA key ionic currents of Cav1.2 ($I_{Ca,L}$), Nav1.5 (I_{Na}), and Kv11.1 (hERG, I_{Kr}) at 37 °C using the gold patch-clamp technique under GLP-compliant condition.

2) *In Vivo* ADME/DMPK, Safety

and Efficacy: Characterizing biodistribution, PK/PD, and efficacy using small animal *in vivo* imaging and stable isotope tracers-based *in vivo* tracing techniques.

Bayou Institute for Health

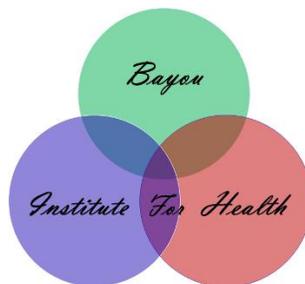
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BAYOU INSTITUTE FOR HEALTH

Preclinical Development & Service

**DRUG DEVELOPMENT FOR
NASH & GI CANCER**

**PRECLINIC SERVICE FOR
CARDIAC SAFETY & DMPK**

PHONE: 281.796.7073

Cardiac Safety Assessment

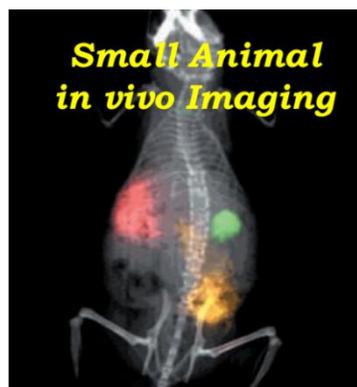
- **hERG (I_{kr}) Inhibition Assay:**
ICH S7B
- **CiPA Proarrhythmia Assay:**
New Paradigm

DRUG DEVELOPMENT

Bayou Institute for Health (BIH), an innovative, biopharmaceutical startup, focused on developing target-specific small molecules, monoclonal antibodies, and natural nutraceuticals for treating type-2 diabetes, metabolic syndrome, nonalcoholic steatohepatitis (NASH), and gastrointestinal cancers. Please contact us at Support@bayous.org and refer to www.bayous.org.

PRECLINIC SERVICE

Assessing *in vitro* cardiac safety pharmacology for hERG and CiPA multiple ionic currents namely Cav1.2 ($I_{Ca,L}$), Nav1.5 (I_{Na}), and Kv11.1 (I_{kr}) at 37 °C using the gold patch clamp technique under GLP-compliant condition.



Characterizing *in vivo* biodistribution, PK/PD and antitumor efficacy using small animal *in vivo* imaging technique with exceptional resolution, sensitivity and image quality for accurate quantification under GLP-compliant condition.

Stable Isotope Tracer Analysis

- Glucose Production
- Insulin Sensitivity
- Metabolic Flux Tracing
- Metabolic Profiling



Quantifying ADME, PK/PD and metabolic efficacy using stable isotope *in vivo* tracing technique under GLP-compliant condition. Insulin sensitivity is assessed with hyperinsulinemic euglycemic clamp.

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