

**Explora BioLabs** is a San Diego-based contract research organization (CRO) that provides preclinical *in vivo* contract research services to the biotech, pharmaceutical and academic communities. Explora is managed by scientists, for scientists. In-depth scientific knowledge, reliable experimental skills and excellent customer service are our strengths. We provide extensive preclinical research services in diabetes and obesity models.

### Expertise in Preclinical Development

#### *Explora's research team has:*

- Hands-on experience with a variety of animal metabolic models
- Extensive experience in diabetes and obesity drug development
- Excellent technical and surgical capability
- Established IACUC protocols

#### *We can assist with:*

- Model selection and study design
- *In vivo* drug screening
- Sophisticated data and statistical analyses
- General technical report (GTR) generation for IND filing
- On-site technical support and training

### Rodent Diabetes/Obesity Models

Explora has experience with various diabetes and obesity animal models used to test new drugs, including the following:

**Genetic Models:** Many genetic changes can cause obesity and diabetic phenotypes. Several commercially available models are commonly used in diabetes/obesity research:

- Zucker rat model
- *db/db* mouse model
- NOD mouse model
- Other genetic models, such as *Tubby*

**Non-Genetic Models:** Experimental procedures can be used to produce animals with obesity and diabetic phenotypes. The following models, which can be produced by Explora, are commonly used in diabetes research:

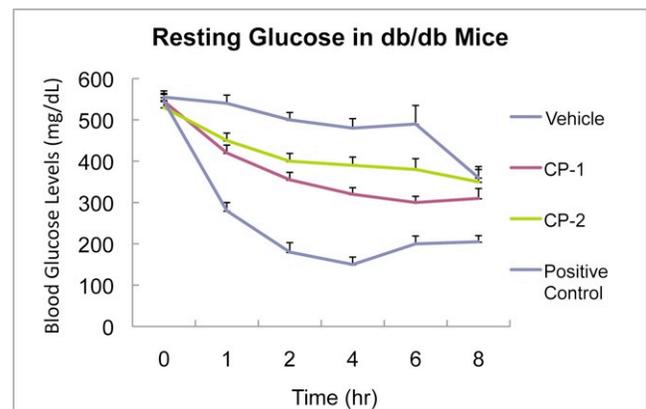
- Diet induced obesity (DIO) model, which is a model for type II diabetes
- STZ (streptozotocin) induced diabetic model, which is a model for type I diabetes

### Assays and Endpoints

While many therapeutics have acute effects, others achieve their full effects after chronic treatment. Explora can help you design protocols that yield high-quality, meaningful data from every study. Common assays used in diabetes studies include:

#### *In Vivo Assays for Glucose Metabolism*

- Resting Glucose levels
- Glucose Tolerance Test (GTT)
- Insulin Tolerance Test (ITT)



#### *Additional Parameters*

- Clinical observations
- Body weight
- In-life collection of blood, serum, plasma, urine or feces for metabolite analysis
- Necropsy with histopathology and immunostaining

**Contact us to find out how Explora can help you contain costs, meet timelines, and achieve your preclinical research goals.**