

B6 DIO MOUSE

Strain name: C57BL6/JRj

Type: Inbred mouse

Origin: CSAL Orléans, 1993

Control: chow fed C57BL6/JRj

DIET-INDUCED

OBESITY

INSULIN RESISTANCE

HYPERGLYCEMIA

NAFLD

MODEL CHARACTERISTICS

Get instant access to our diet-induced obese (DIO) mouse, fed a 60% high fat diet, the most widely used nutritional model of human obesity associated with hyperinsulinemia and insulin resistance.

The DIO mice also show a moderate hyperglycemia and a strong glucose intolerance.

This human-like nutritional model enables investigating the molecular mechanisms of obesity and evaluating therapeutic strategies:

- obesity
- insulin resistance
- alteration of immuno-metabolism.



OUR MODEL ADVANTAGES

1

Our DIO mouse replicates the human context with diet-induced obesity and insulin resistance

2

Large cohorts of mice per delivery

3

SOPF mice with homogenous genetic background delivered by our own animals transportation service

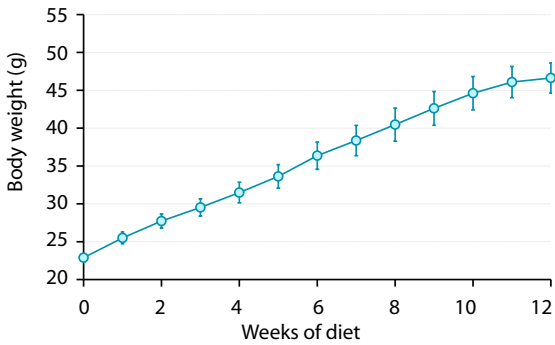
4

Benefit from our experts' scientific support to discuss about your project and optimize your research experiments and preclinical drug development

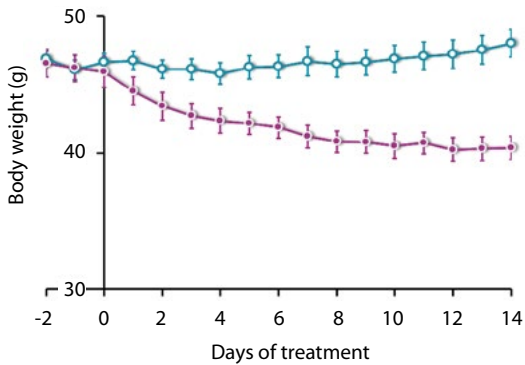
READY-TO-USE AND CHARACTERIZED MODEL

BODY WEIGHT FOLLOW-UP*

WEIGHT EVOLUTION CURVE



○ C57BL6/JRj on 60% high fat diet

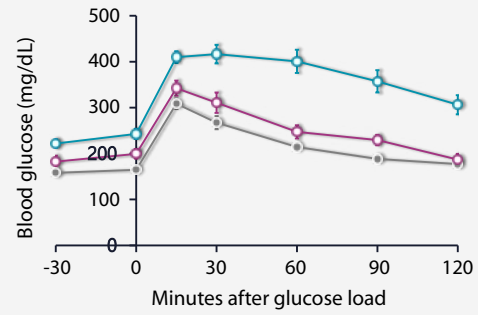


○ Vehicle ○ Liraglutide 0.1mg/kg QD

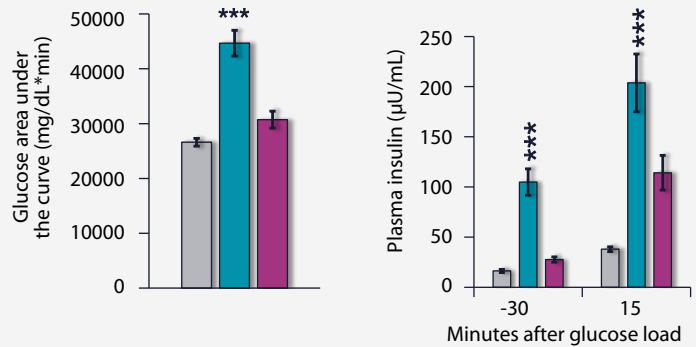
C57BL6/JRj mice fed a 60% high fat diet for 12 weeks develop obesity, which can be improved with marketed anti-obesity drugs like the GLP-1 receptor agonist liraglutide.

DIO C57BL6/JRj mice also develop strong glucose intolerance and insulin resistance (see right handside graphs). Both are controlled with reference drugs administration like the insulin sensitizer pioglitazone, a PPARgamma agonist.

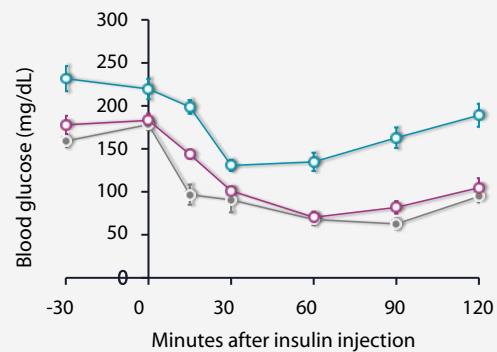
GLUCOSE INTOLERANCE AND INSULIN RESISTANCE*



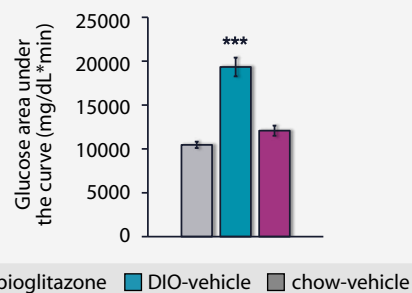
○ DIO-pioglitazone ○ DIO-vehicle ○ chow-vehicle



■ DIO-pioglitazone ■ DIO-vehicle ■ chow-vehicle



○ DIO-pioglitazone ○ DIO-vehicle ○ chow-vehicle



■ DIO-pioglitazone ■ DIO-vehicle ■ chow-vehicle

*Scientific data provided by our partner Physiogenex.



contact@janvier-labs.com
+33(0)2 43 02 11 91