Heart failure with preserved ejection fraction in rat

Model of heart failure with preserved ejection fraction (HFpEF) related to metabolic complications

Predictive models to test efficacy of compounds on diastolic dysfunction and metabolic disorders

MODEL FEATURES

- Free choice diet induced obese (DIO) rat ((12 wks)
- Diastolic dysfunction with preserved systolic function
- Obesity - glucose intolerance - insulin resistance - hepatic steatosis

Reference compounds: GLP-1 analogue

KEY PARAMETERS

- Echocardiography, Left ventricle catheterization
- OGTT, Insulin toterance test,- HOMA-IR
- Exercise tolerance test (treadmill)
- Histology, gene / protein expression, biomarkers assays

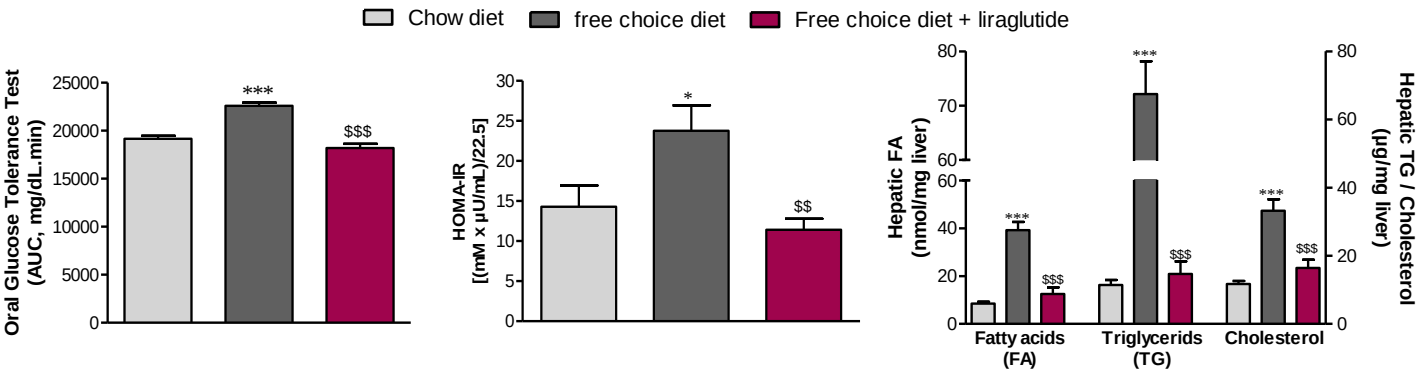
Please contact us for customized protocol

PHARMACOLOGICAL VALIDATION WITH LIRAGLUTIDE, A GLP-1 ANALOGUE

Echocardiography after 12 weeks of control chow or free choice diet (Liraglutide from week 8 to week 12)

(Full data package upon request – Publication online: Briand & al, Eur J Pharmacol 2020, PMID: 32621913)

➢ Liraglutide prevents glucose intolerance, insulin resistance and hepatic steatosis



➢ Free choice diet induces diastolic relaxation impairment that is prevented by liraglutide