

## Heart failure with preserved ejection fraction in mice

Model of heart failure with preserved ejection fraction (HFpEF) related to NASH and metabolic disorders

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

### MODEL FEATURES

- Diet induced NASH in mice- 16 wks high fat/cholesterol diet + fructose in drinking water - housing in thermoneutrality conditions
- Diastolic dysfunction - Preserved systolic function
- NASH/fibrosis, Obesity, Insulin resistance

### KEY PARAMETERS

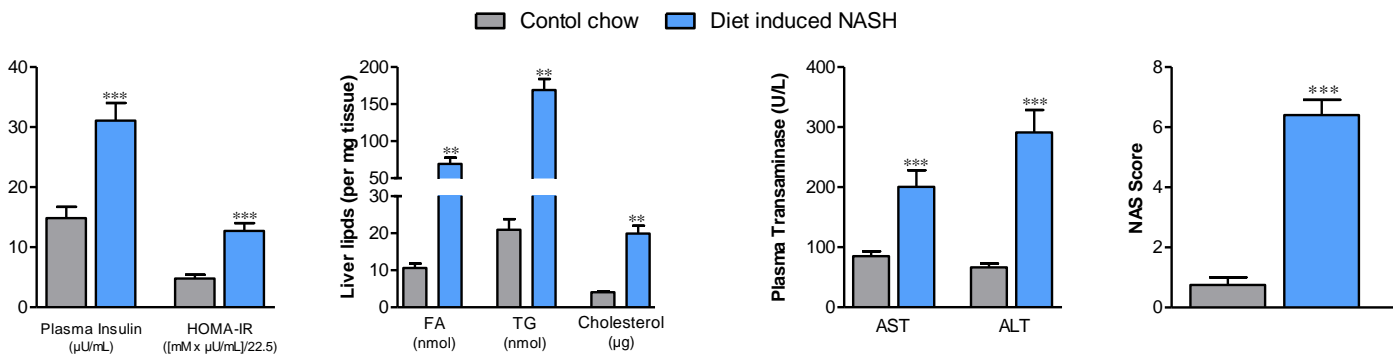
- Cardiac function and geometry (echography)
- Invasive left ventricle function (Millar probe)
- Exercise tolerance test on treadmill
- Histology, Gene / protein expression, biomarkers assays...

*Please contact us for customized protocol*

## FUNCTIONAL CHARACTERIZATION

*Echocardiography after 16 weeks of chow or cafeteria diet (high fat/cholesterol + fructose enriched water) in thermoneutrality conditions (Full data package upon request)*

### ➤ High fat diet induces obesity, insulin resistance and liver complications



### ➤ Diet leads to cardiac remodeling and diastolic dysfunction with near normal ejection fraction

