

# Methionine Choline Deficient (MCD) mouse model

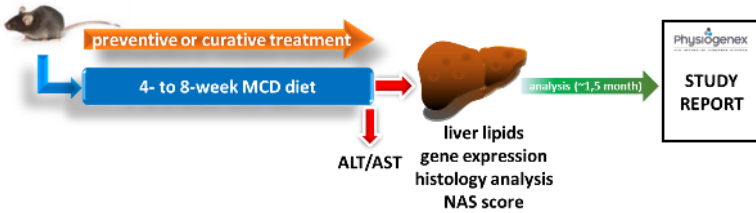
✓ A reference in NASH models, validated with benchmarks, to rapidly evaluate your compounds targeting NASH

### Key benefits

✓ Evaluate your drug in a classical NASH model, validated in-house by Physiogenex with reference drugs :  
Get a **deep evaluation** (biochemistry, histology and NAS score) of your compounds targeting NASH **in less than 3 months**

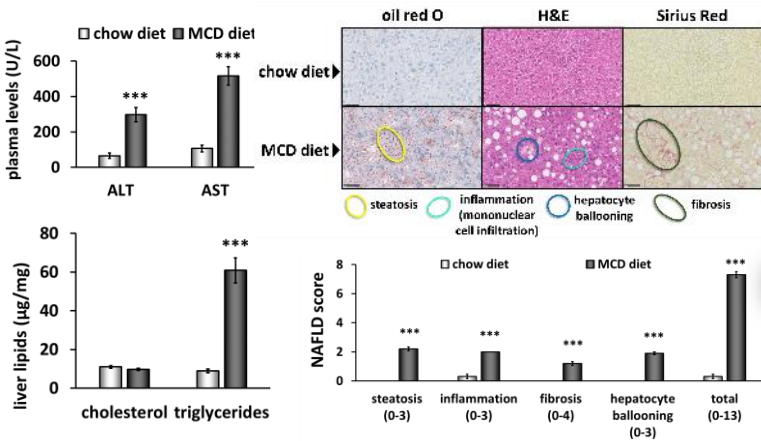
### ANIMAL MODEL

- **Strain:** C57BL/6J mouse
- **Diet:** Methionine Choline Deficient diet
- **Study duration:** 4 to 8 weeks
- **Reference compounds:** pioglitazone (PPAR $\gamma$  agonist), WAY-362450 and obeticholic acid (FXR agonists)



### EFFECTS OF MCD DIET

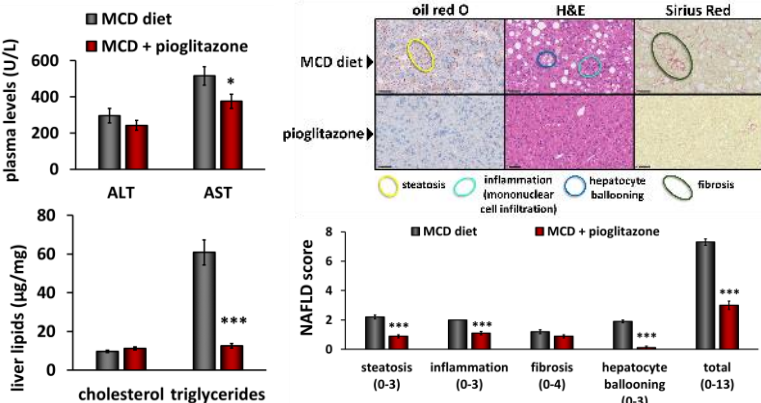
#### MCD DIET INCREASES LIVER ENZYMES AND PROMOTES NASH



\*\*\*p<0.01 vs. chow diet

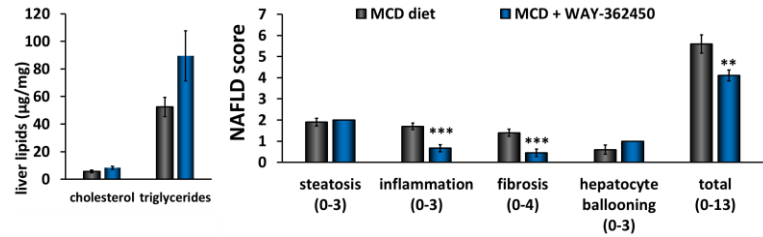
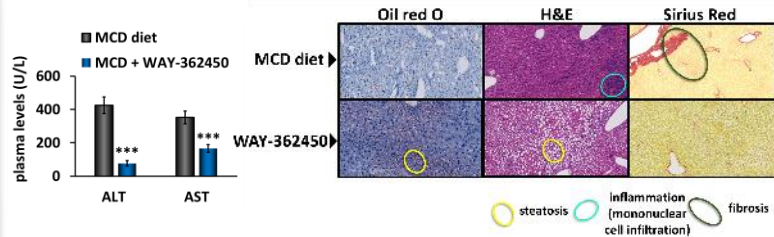
### EFFECTS OF PIOGLITAZONE

#### PIOGLITAZONE IMPROVES NAS SCORING WITH A STRONG REDUCTION IN LIVER TRIGLYCERIDES



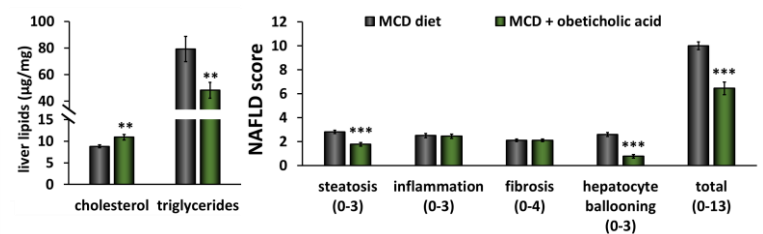
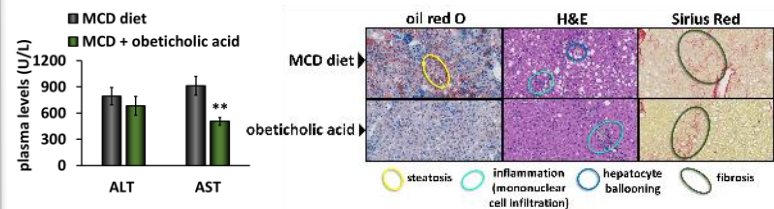
### EFFECTS OF FXR AGONIST WAY-362450

#### FXR AGONIST WAY-362450 IMPROVES NAS SCORING BY REDUCING INFLAMMATION AND FIBROSIS, BUT NOT STEATOSIS



### EFFECTS OF FXR AGONIST OBETICHOLIC ACID

#### OBETICHOLIC ACID IMPROVES NAS SCORING BY REDUCING LIVER STEATOSIS AND BALLOONING



\*p<0.05, \*\*p<0.01 and \*\*\*p<0.01 vs. respective vehicle