**Methionine Choline Deficient (MCD) mouse model**

Key benefits
- Evaluate your drug compounds in this 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 4 months.

**ANIMAL MODEL**
- **Strain:** C57BL/6J mouse
- **Diet:** Methionine Choline Deficient (MCD) diet
- **Study duration:** 7 weeks
- **Reference compounds:** elafibranor (other references on request)

**EFFECTS OF MCD DIET**
- Methionine Choline Deficient (MCD) diet increases liver enzymes and promotes NASH
- Plasma transaminases (upper left panel), representative oil red O, H&E and Sirius Red staining (upper right panel). Blue square indicates liver steatosis, yellow dashed square inflammatory foci, blue arrows indicates fibrosis.
- Hepatic lipids levels (lower left panel) and NAFLD activity score (lower right panel) in mice fed a chow or MCD diet for 7 weeks. ***p<0.001 vs. vehicle.

**EFFECTS OF ELAFIBRANOR**
- Elafibranor markedly improves hepatic steatosis, inflammation, fibrosis and NAS score
- Representative H&E and Sirius Red staining in mice treated with vehicle or elafibranor orally QD for 7 weeks. Blue square indicates liver steatosis, yellow dashed square inflammatory foci, blue arrows indicates fibrosis.

**ELAFIBRANOR REDUCES EXPRESSION OF GENES INVOLVED IN INFLAMMATION AND FIBROSIS**
- Hepatic gene expression of IL-1b and MCP-1 (left panel), alpha-SMA, Coll1a1 and TGF-beta (right panel) in mice treated with vehicle or elafibranor orally QD for 7 weeks. **p<0.01 and ***p<0.001 vs. vehicle.

**ELAFIBRANOR LOWERS PLASMA TRANSAMINASES AND LIVER LIPIDS LEVELS**
- Plasma transaminases (left panel) and hepatic lipids levels in mice treated with vehicle or elafibranor orally QD for 7 weeks. *p<0.05 and ***p<0.001 vs. vehicle.

**NAFLD activity score**
- NAFLD activity score for hepatic steatosis, inflammation, fibrosis and total NAS score in mice treated with vehicle or elafibranor orally QD for 7 weeks. ***p<0.001 vs. vehicle.