**Graphical Abstract**

Mboat7<sup>WT</sup> and Mboat7<sup>Ap</sup> mice were subjected to a high fat diet (HFCDD) to study the effects on liver health. The diagram illustrates the progression of liver disease from healthy to steatosis, steatosis + inflammation, and fibrosis.

1<sup>st</sup> Hit: Steady State

- Increased Cholesterol esters
- Increased LPI
- Altered PI sidechain remodeling

2<sup>nd</sup> Hit: High fat diet (HFCDD)

- Increased LPI + altered PI sidechain remodeling
- Deregulated phospholipids

The diagram highlights the progression of liver disease with increased fibrosis.