**Liver Circulation**

In this diagram, one of the many tiny liver lobules has been enlarged for simplicity.

- **Gallbladder**
  - **Cystic Duct**
  - **Common Bile Duct**

**Bile Storage + Release**

When food is not present, sphincter is closed so bile accumulates in common bile duct...

Eventually it "backs up" through cystic duct into the gallbladder.

When fatty food is present, enteroendocrine cells in small intestine mucosa signal sphincter to open and gallbladder to contract, releasing bile into small intestine.

- **Hepatic Veins**
- **Inferior Vena Cava**
- **Portal Venules**
- **Hepatic Portal Vein**
- **Hepatocyte**
- **Sinusoid (capillary)**
- **Hepatic Arteriole**
- **Portal Artery**
- **Hepatic Arteries** (oxygen-rich blood)

**Aorta**