Hepatoprotectant (APAP and other agents)

**OCR Number:** OCR 4554

**Description:**

- OCR4554 is an approved drug used by countless patients world-wide (WW).
- Acetaminophen (APAP) sales
  - Dozens of companies have OTC sales
  - Tylenol’s 20.3% market share and $850M WW/yr
- Large percentage of population have vulnerable livers and would benefit from safer APAP (Figure 1).
- APAP overdose among most common WW
  - FDA has long wrestled with safety vs. efficacy for APAP
  - US: 56,000 ER visits/yr
  - 100 unintentional deaths/yr
  - 51% of all US liver poisonings in 2003
  - Used in suicide attempts
- OCR4554 in combination with APAP reduces mortality in vivo (Figure 2).

![Figure 1: NASH](image1.png)

![Figure 2: OCR4554 reduces mortality due to hepatotoxic challenge in a mouse model](image2.png)

**Published/Issued Patents:** [U.S. Patent No. 9,149,424](https://patents.google.com/patent/US9149424B2/en)


**Publications:**


**Licensing Contact:** Lolahon Kadiri
lolahon.kadiri@yale.edu