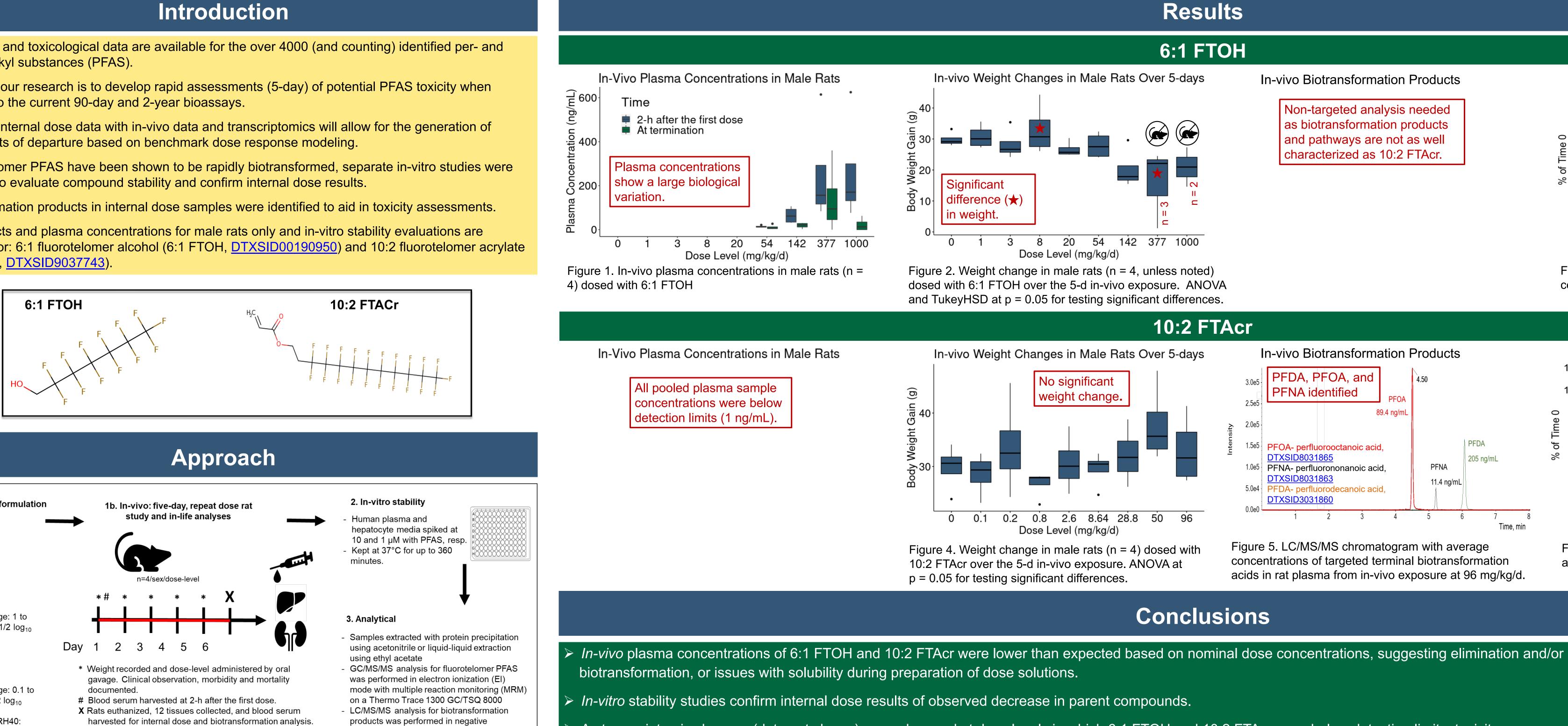


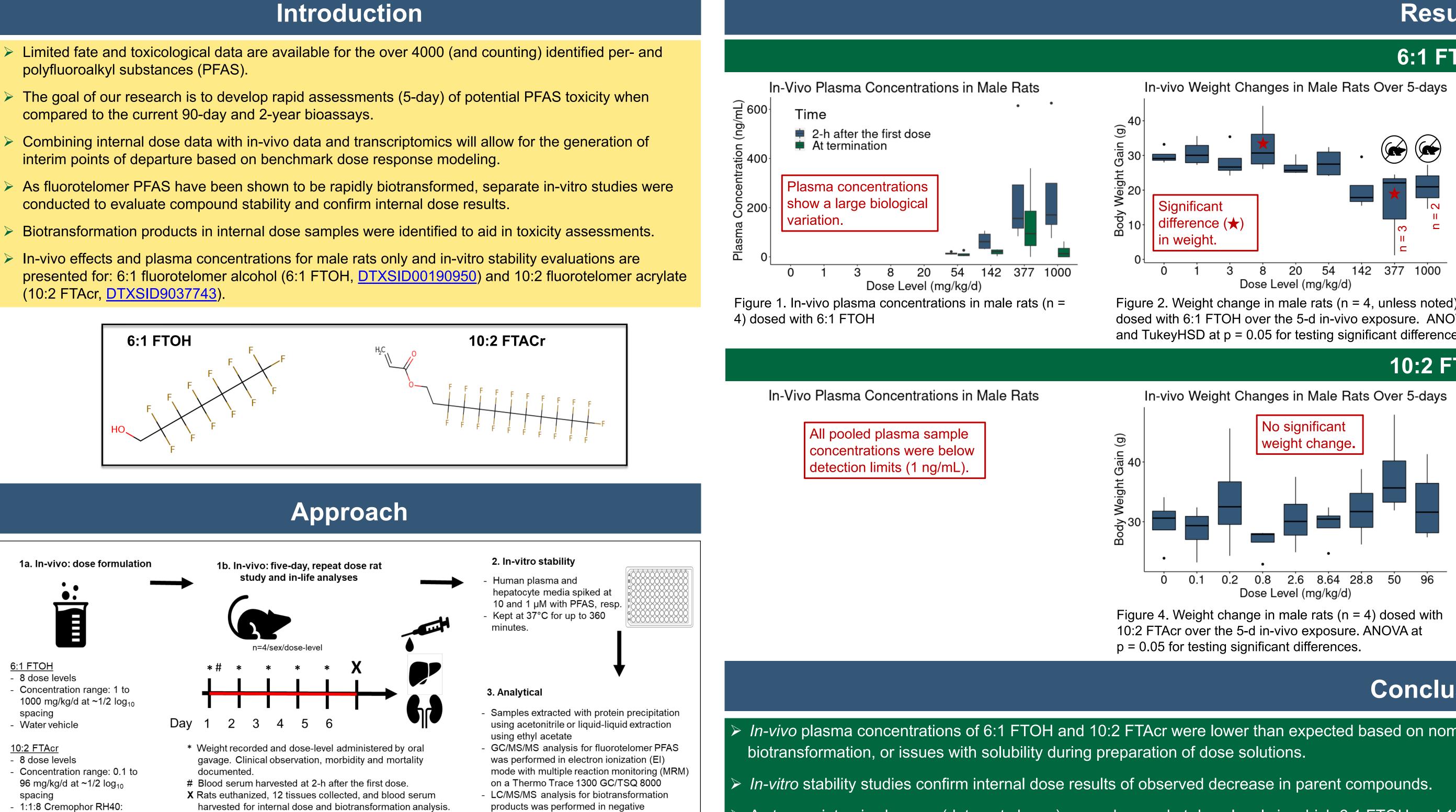
3101/P205

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- polyfluoroalkyl substances (PFAS).
- compared to the current 90-day and 2-year bioassays.
- interim points of departure based on benchmark dose response modeling.
- conducted to evaluate compound stability and confirm internal dose results.
- (10:2 FTAcr, DTXSID9037743).







- 1:1:8 Cremophor RH40: Ethanol: DI Water (w/v/v) vehicle

- electrospray ionization (ESI-) mode with MRM on a SCIEX 4000 Qtrap.

# In-vivo and in-vitro quantitation and stability of fluorotelomer compounds in rat and human plasma to inform toxicity

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> As transcriptomic changes (data not shown) were observed at dose levels in which 6:1 FTOH and 10:2 FTAcr were below detection limits, toxicity assessments for fluorotelomer PFAS should take into consideration biotransformation products due to rapid elimination and/or biotransformation of parent compounds.

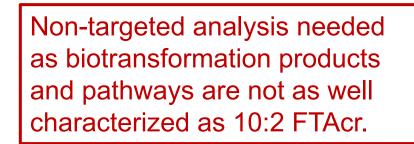
# Results

## 6:1 FTOH

### **10:2 FTAcr**

3 0e!

#### In-vivo Biotransformation Products



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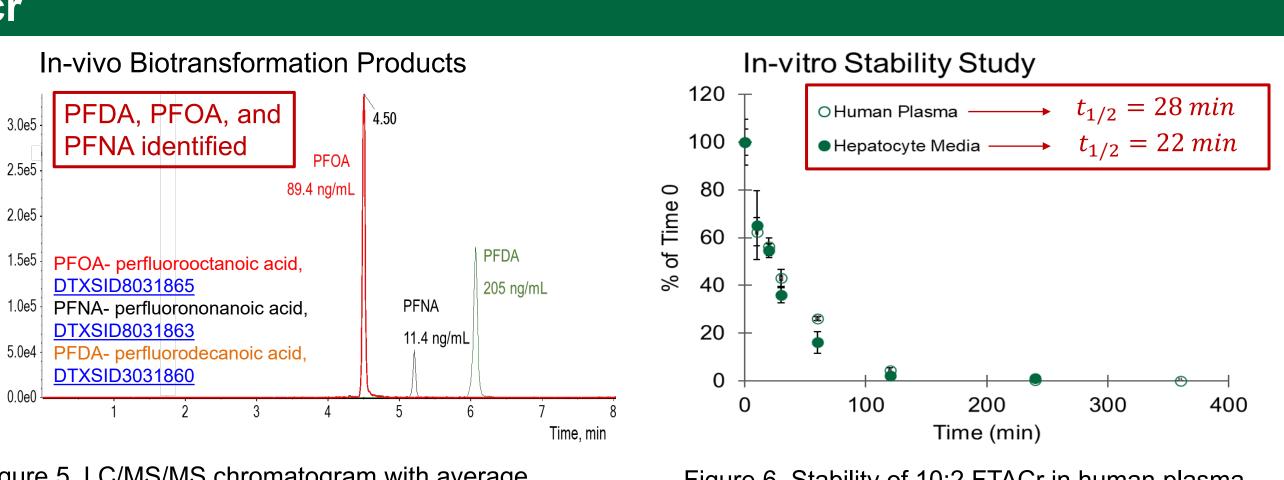


Figure 5. LC/MS/MS chromatogram with average concentrations of targeted terminal biotransformation acids in rat plasma from in-vivo exposure at 96 mg/kg/d.

# Conclusions

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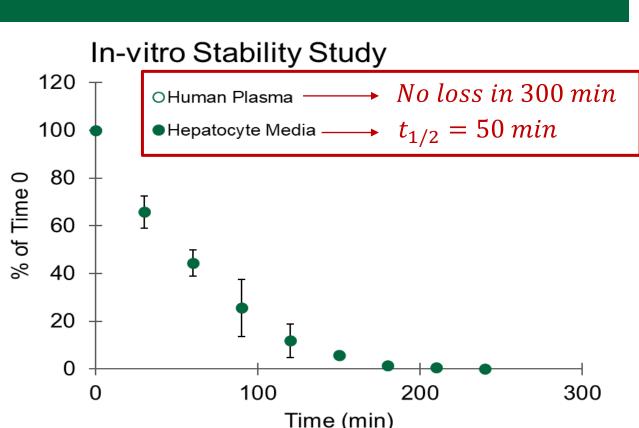


Figure 3. Stability of 6:1 FTOH in human plasma and cell media over 240 minutes. Plasma data not shown.

Figure 6. Stability of 10:2 FTACr in human plasma and cell media over 360 minutes.

> See Poster 3087/P190 for 5-d exposure results for additional PFAS compounds