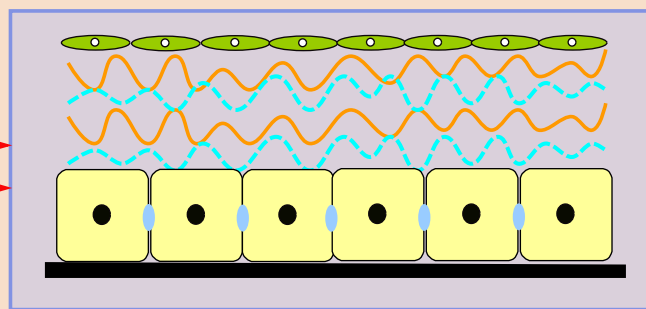


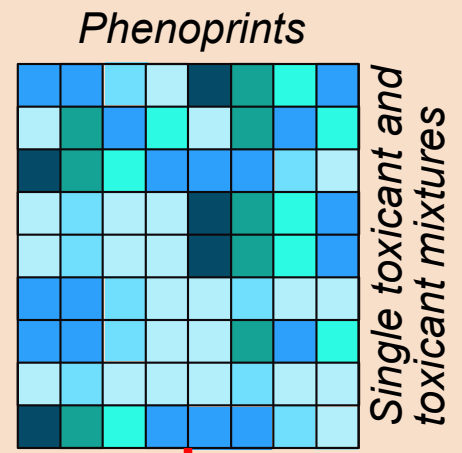
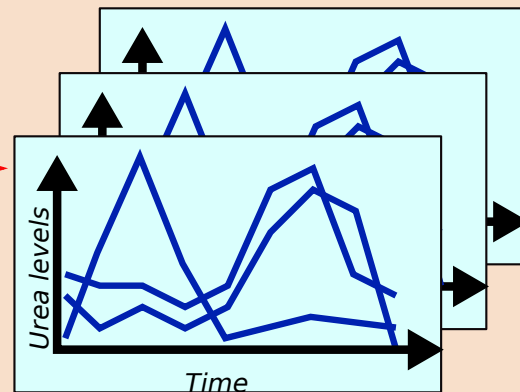
Aim I

Assemble
3D liver mimic

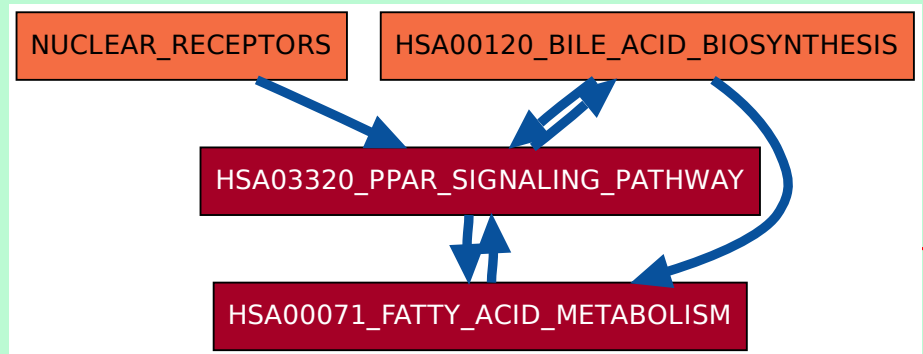
Add toxicants



Measure
phenotype
levels



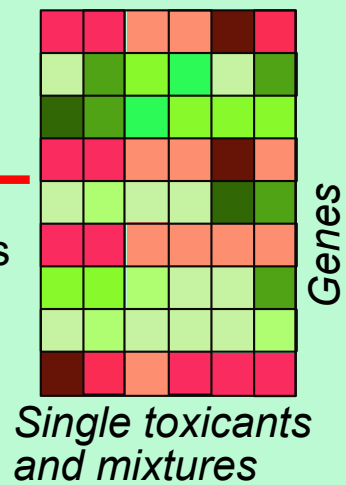
Aim II



Functional
interaction
network

Compute
biological process
linkage networks

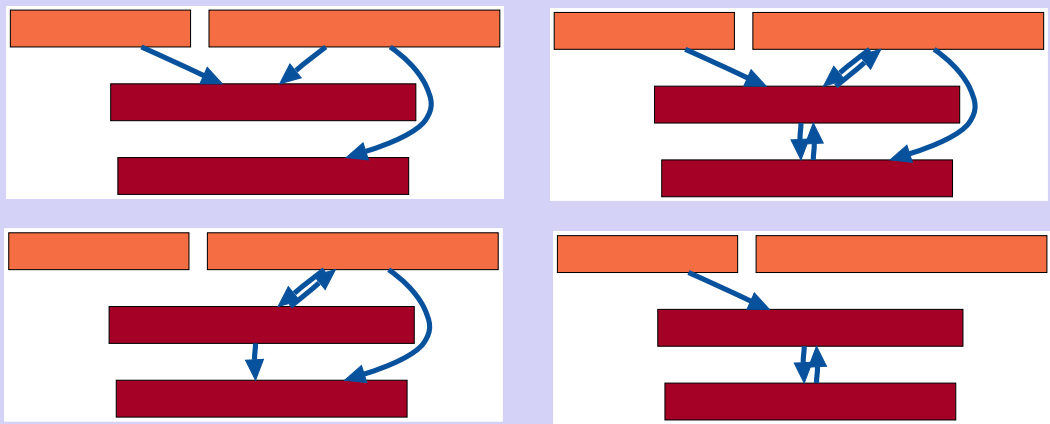
Select toxicant-dose
combinations



Measure gene
expression
levels



Aim III



Compare multiple
biological process
linkage networks

Prioritize proteins
and metabolites
for further
experimentation

- RT PCR
- Western blots
- Bile acid measurements
- RNA interference
- Protein antagonists