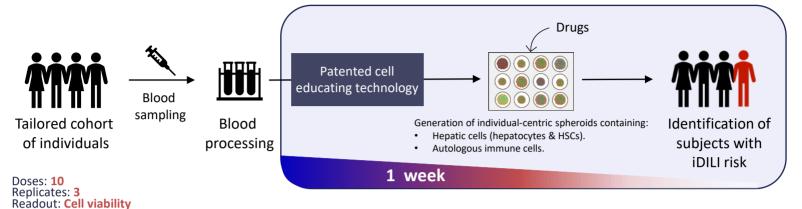
GenuineSelect-TOX platform



Individual-centric models for iDILI detection

Secure lead compound selection by de-risking iDILI occurrence with individual-centric models



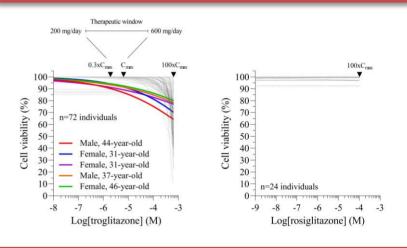
Individual dependent induction of drug metabolizing enzymes, xenobiotic sensors, and TFs

Minimum cohort size (recommended): 24 individuals

FC to untreated (Log) Troglitazone (C_{max}) Male, 33-year-old Bosentan (C_{max}) Troglitazone (C_{max}) Male, 35-year-old Bosentan (C_{max}) roglitazone (C_{max}) Male, 43-year-old Bosentan (C_{max}) Troglitazone (C_{max}) Male, 44-year-old Bosentan (Cmax) JGT1A1 MAOA UGT2B7 JGT2A3 NR113/CAR NRI

Phase I

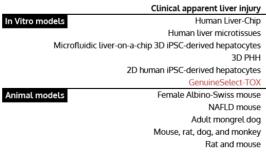
Detection of iDILI at therapeutic doses



Accurate prediction of iDILI risk of a panel of drugs with clinical apparent liver injury

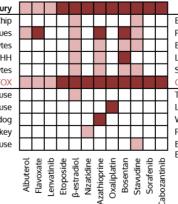
Each drug was tested on a cohort of 24 individuals.





NR

Phase II



Ewart et al. 2022. Commun Med Proctor et al. 2017. Arch Toxicol Bircsak et al. 2021. Toxicology Li et al. 2020. J Pharm SciLi et al. 2020. J Pharm Sci Sirenko et al. 2014. Assay Drug Dev Technol Cherradi et al., 2023. In vitro models

Tritapepe et al. 1980. Biochem Pharmacol Lu et al. 2019. Int J Mol Med Worth, 1968. Tox Appl Pharmacol Probst et al. 1989. Fundam Appl Toxicol Barreto et al. 2006. Eur J Obstet Gynecol Reprod Biol / Igoudjil et al. 2007. Antivir Ther

→ Benefits

In vitro models

- Analyze iDILI risk on a tailored cohort of individuals
- Get insights on age- and sex-associated iDILI risk
- De-risk DILI already at early preclinical stage
- Quick toxicity screenings for decision-making
- Improve lead compound selection
- Reduced time and costs of drug development

