Introduction

- Cells reside in heterogeneous and architecturally structured 3D environments in vivo.
- Using the proprietary NovoGen Bioprinter® Platform, Organovo builds 3D tissues through automated, spatially-controlled cellular deposition to better recapitulate native tissue structure and function.

ExVive™ Liver tissues model clinically relevant toxic phenotypes

Progressive Liver Fibrosis

ExVive™ Liver tissues model clinically relevant disease phenotypes

Volpric Acid Induced Steatosis

Summary

- Organovo’s bioprinting platform enables the construction of architecturally correct 3D human liver tissues without the use of exogenous scaffolding.
- ExVive™ 3D Bioprinted Human Liver Tissues recapitulate native liver physiology in vitro, with sustained function and viability.
- This enables mechanistic insights into phenotypes that progress over time and require multiple cell types in a specific spatial organization, reflecting the true complexity of human biology.