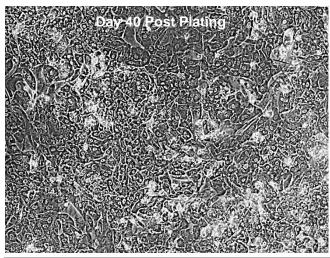
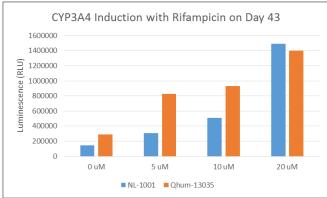
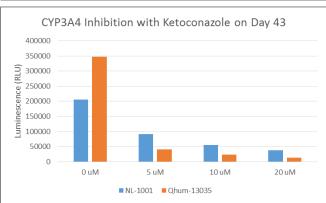


Human Hepatic Co-Culture Model Human Hepatocytes with Human Liver Stromal Cells For all Long-Term Culture Needs

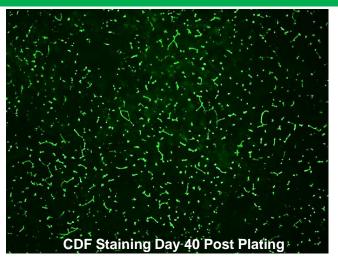






Promega CYP3A4-IPA assay was carried out Following Induction and Inhibition

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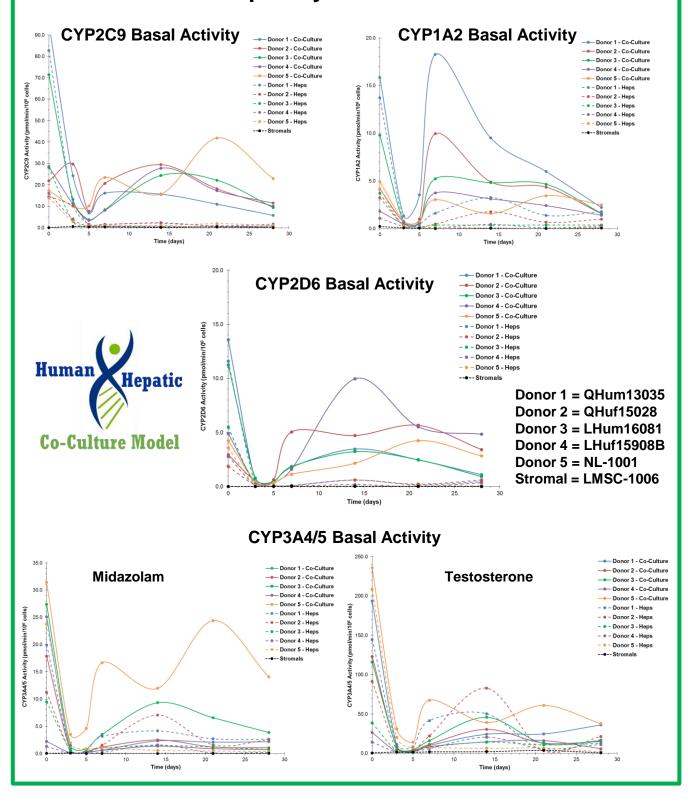
Human Hepatic Model Highlights

- Human hepatocytes and human liver stromal cells are plated together on Collagen I
- Stromal Cells provide hepatocytes with
 - Soluble Factors
 - Extracellular matrix
 - Cell-cell interactions
- Hepatocytes remain functional in culture beyond 40 days
- Hepatocytes in co-culture don't undergo epithelial to mesenchymal transition and maintain polarity
- Hepatocytes in co-culture have relevant physiological functions
- Assays can be repeated multiple times on the same cells



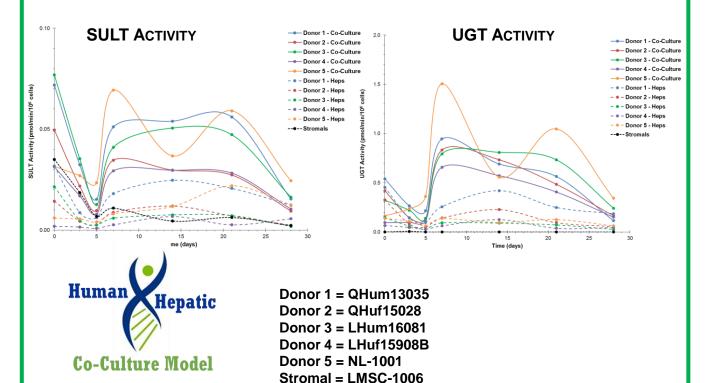
Cytochrome P450 Metabolism

Co-Culture vs. Hepatocytes Alone in 96-Well Format

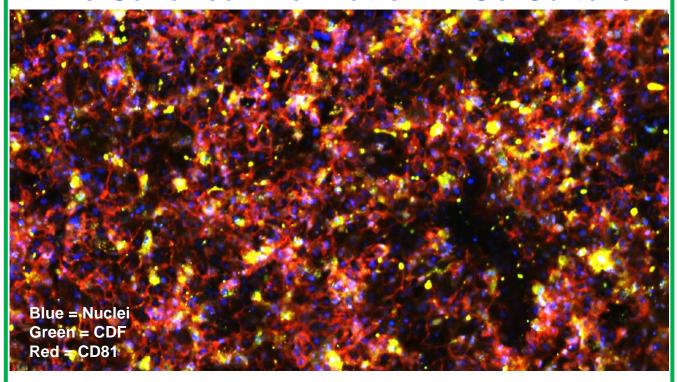


Phase II Metabolism

Co-Culture vs. Hepatocytes Alone in 96-Well Format



Bile Canaliculi Formation In Co-Culture



CELIGO IMAGING OF QHUM-13035 ON DAY 25 POST PLATING



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Vesta Bio has developed a new hepatic co-culture model that includes human hepatocytes, human liver stromal cells and hepatocyte media for recovery of cryopreserved hepatocytes, media for thawing the stromal cells and plating of both hepatocytes and stromal calls and media for the maintenance of fresh and cryopreserved hepatocytes that when cultured together in co-culture with liver stromal cells can maintain hepatocyte function beyond 40 days in culture.

