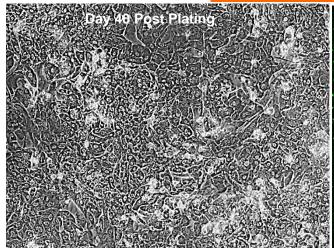
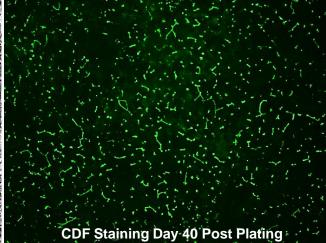
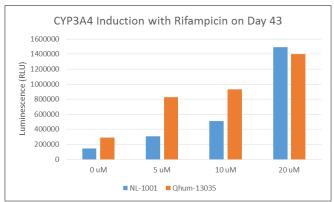


# Human / Human Hepatic Co-Culture Model Human Hepatocytes with Human Liver Stromal Cells For all Long-Term Culture Needs







## Human / Human Hepatic Model Highlights

Human hepatocytes and human liver stromal cells are plated together on Collagen I

Stromal Cells provide hepatocytes with

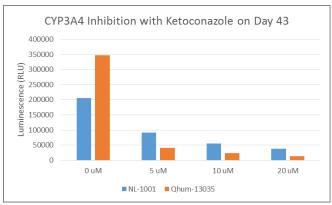
- Soluble Factors
- Extracellular matrix
- Cell-cell interactions

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

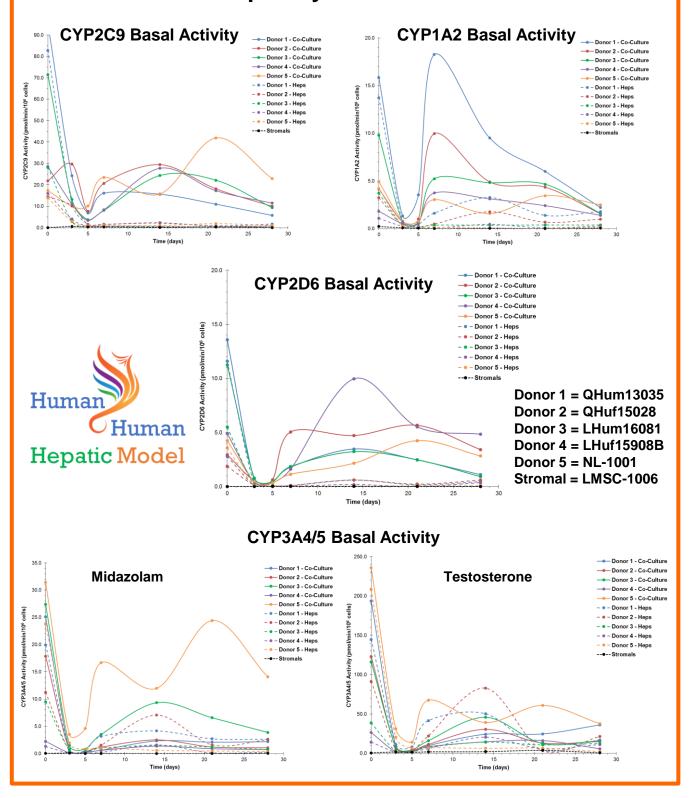


Promega CYP3A4-IPA assay was carried out Following Induction and Inhibition

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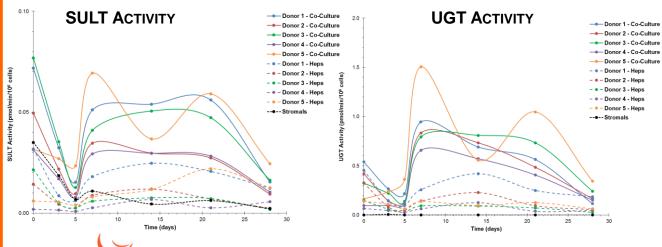
### **Cytochrome P450 Metabolism**

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



#### Phase II Metabolism

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





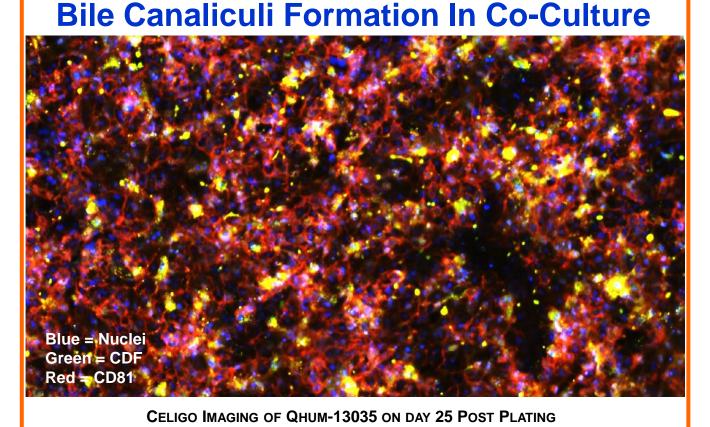
Donor 1 = QHum13035

**Donor 2 = QHuf15028** 

**Donor 3 = LHum16081** 

**Donor 4 = LHuf15908B** 

Donor 5 = NL-1001Stromal = LMSC-1006





#### **PhoenixSongs Biologicals** Phone: 203-433-4329

Fax: 203-208-0664

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PhoenixSongs 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 coculture with liver stromal cells can maintain hepatocyte function beyond 40 days in culture.

Human / Human Hepatic Co-Culture Model			
		Unit	
Catalog #	Description	Size	Unit Cost
Human Hepatocytes in Co-Culture with Human Liver Stromal Cells			
	Human hepatocytes pre-plated together with human liver stromal cells on		
PHHCCP-24	Collagen I coated 96-well plates  Primary Human Hepatic Co-Culture Plates 24-well	Ea.	\$1,250
PHHCCP-96	Primary Human Hepatic Co-Culture Plates 96-wells	Ea.	\$950
Liver Stromal Cells – Growth Arrested			
	Liver stromal cells isolated from human livers donated through the Federal Organ Procurement Organization are growth arrested and ready to be co-cultured with any donor lot of hepatocytes, hepatoblasts or stem cells		
33002-018GA	Donor Lot LMSC-18	5M Cells	\$550
33002-1006GA	Donor Lot LMSC-1006	5M Cells	\$550
33002-1007GA	Donor Lot LMSC-1007	5M Cells	\$550
33002-1009GA	Donor Lot LMSC-1009	5M Cells	\$550
33002-1012GA	Donor Lot LMSC-1012	5M Cells	\$550
	Atic Co-Culture Model Cryopreserved Kit The kit contains: 1 vial Cryopreserved Human Hepatocytes 1 vial Cryopreserved Growth Arrested Human Liver Stromal Cells. 1 Bottle of CRM050 1 Bottle of HPM250 1 Bottle of HCM500		
PHHCCK	Human / Human Hepatic Model Kit	Ea.	\$1585
Hepatocyte Media			
			Unit
Catalog #	Description	Unit Size	Cost
CRM050	Cryopreserved Hepatocyte Recovery Media	50ml	\$75
	Complete serum-containing media for the recovery of cryopreserved hepatocytes. One tube should be used to recover 1-2 vials of hepatocytes upon thawing.		
HPM250	Hepatocyte Plating Media	250ml	\$150
	Complete serum-containing media for plating cryopreserved human hepatocytes and human liver stromal cells. Includes basal medium, frozen supplement containing serum, glutamine and all necessary factors for attachment of hepatocytes and liver stromal cells.		
HCM500	Hepatocyte Culture Media	500ml	\$185
	Complete serum-free media for maintenance of freshly isolated or		

cryopreserved human hepatocytes. Includes basal medium with serum-free supplement containing glutamine and all necessary

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