## **Supporting information**

## Figure S1

Schematic diagram of the process of seeding cells into each chamber of the flow-chip. (A) A HSC suspension was introduced into the inlet port of the flow-chip through the microfluidic channels. (Red arrows indicate the direction of flow.) (B) A primary hepatocyte suspension was introduced into the inlet port of the concave flow-chip through the microfluidic channels. (Blue arrows indicate the direction of flow.)

## Figure S2

Light-microscopic images of mono-cultured spheroids formed in concave microwells. Arrows indicate disaggregation from the surface of spheroids. Scale bar =  $250 \, \mu m$ .

Figure S1

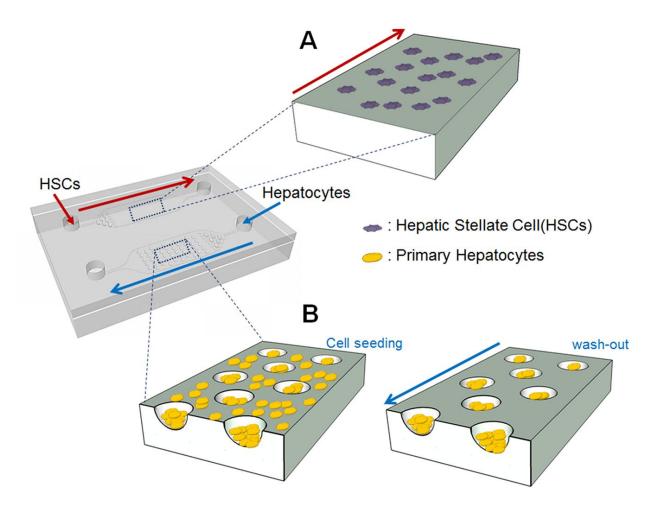


Figure S2

