Fig. 1

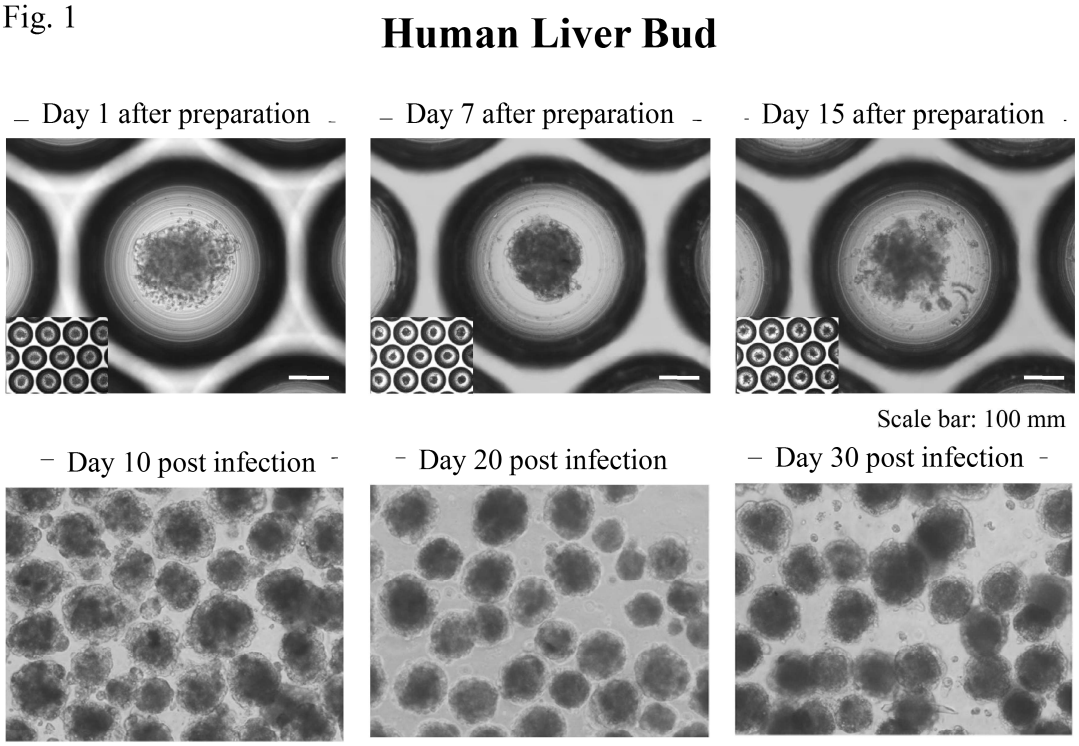

Human Liver Bud
Day 1 after preparation
Day 7 after preparation
Day 15 after preparation
Scale bar: 100 mm
Day 10 post infection
Day 20 post infection
Day 30 post infection

Fig. 2

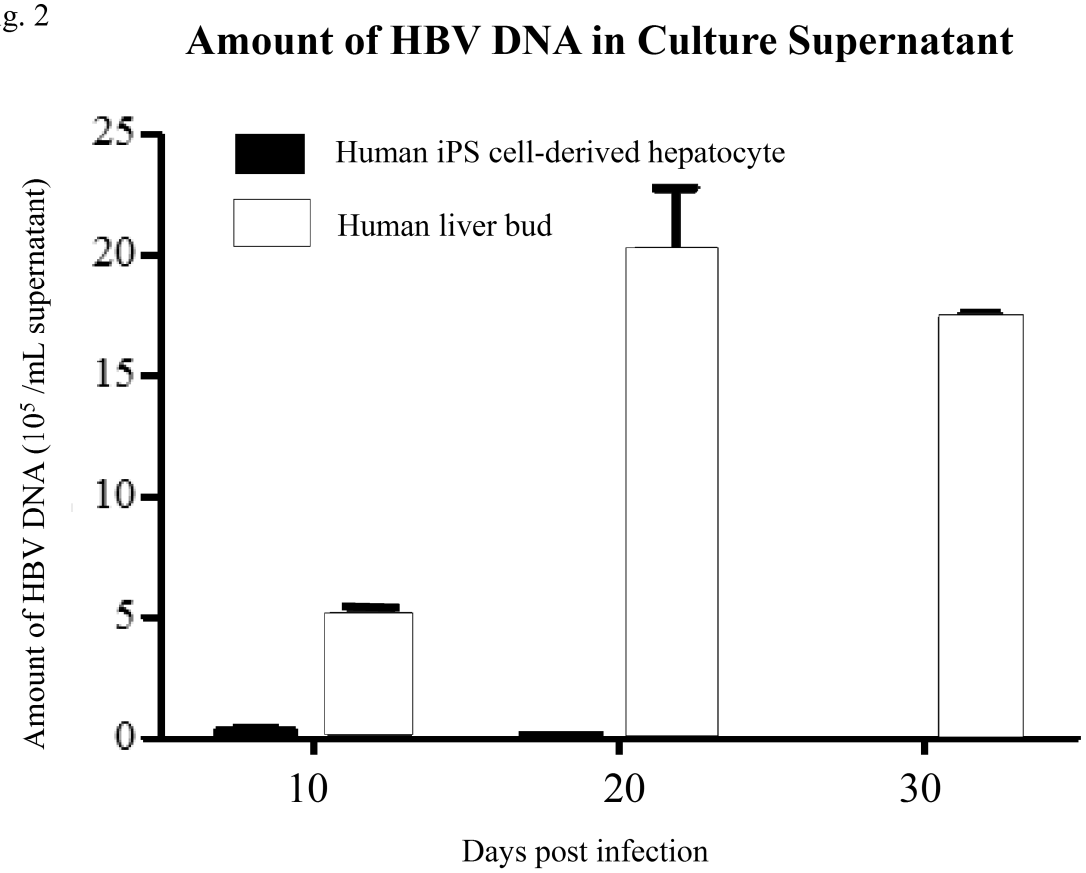

Amount of HBV DNA in Culture Supernatant
Human iPS cell-derived hepatocyte
Human liver bud
Amount of HBV DNA (10^5 /mL supernatant)
25
20
15
10
5
0
10
20
30
Days post infection

Fig. 3

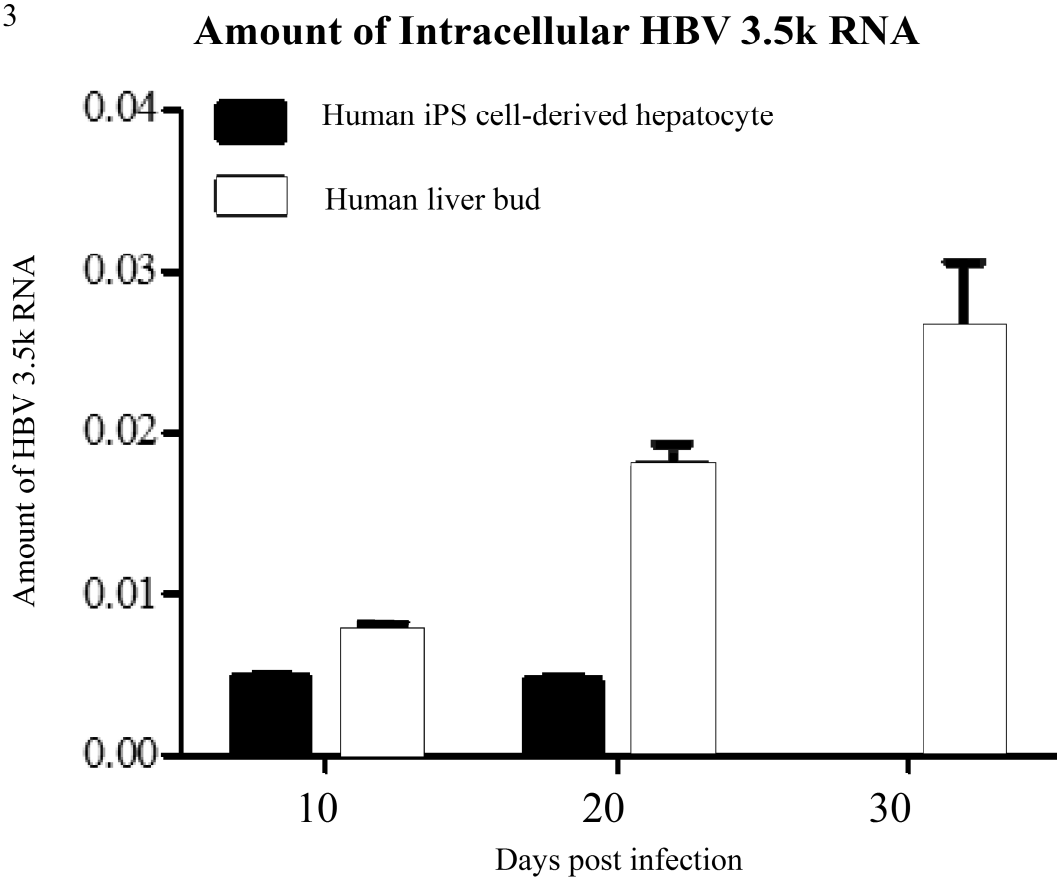

Amount of Intracellular HBV 3.5k RNA
Human iPS cell-derived hepatocyte
Human liver bud
Amount of HBV 3.5k RNA
0.04
0.03
0.02
0.01
0.00
10
20
30
Days post infection

Fig. 4

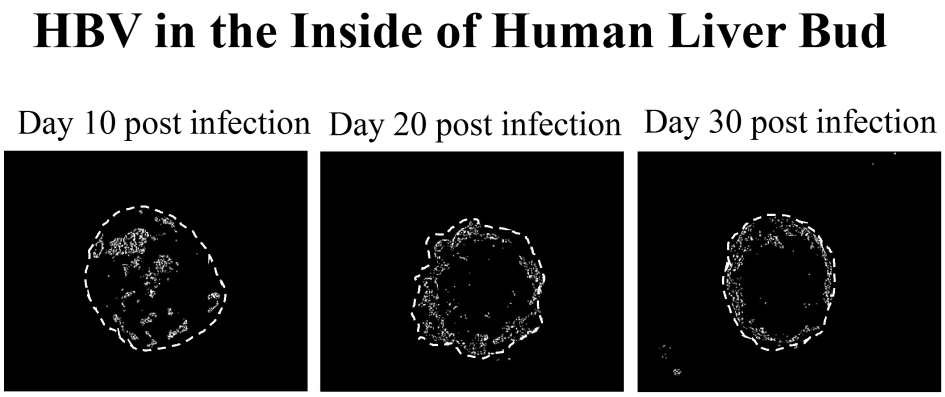

HBV in the Inside of Human Liver Bud
Day 10 post infection
Day 20 post infection
Day 30 post infection

Fig. 5

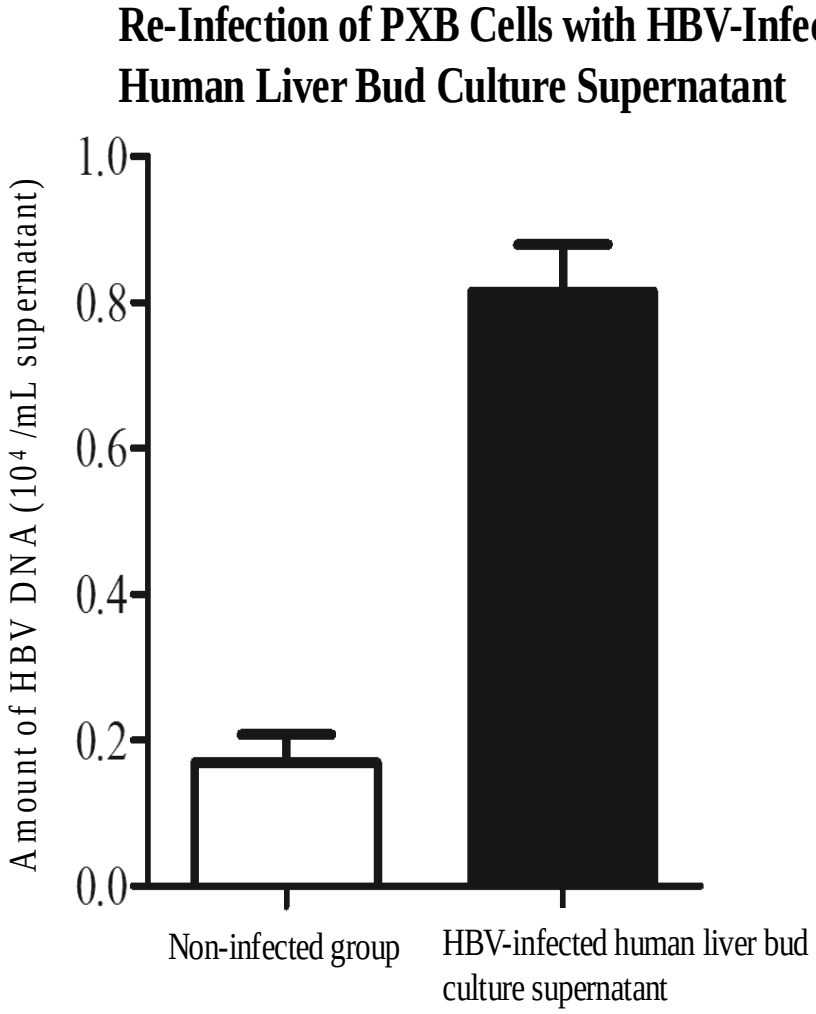

Re-Infection of PXB Cells with HBV-Infected Human Liver Bud Culture Supernatant
Amount of HBV DNA (10^4 /mL supernatant)
1.0
0.8
0.6
0.4
0.2
0.0
Non-infected group
HBV-infected human liver bud culture supernatant

Fig. 6

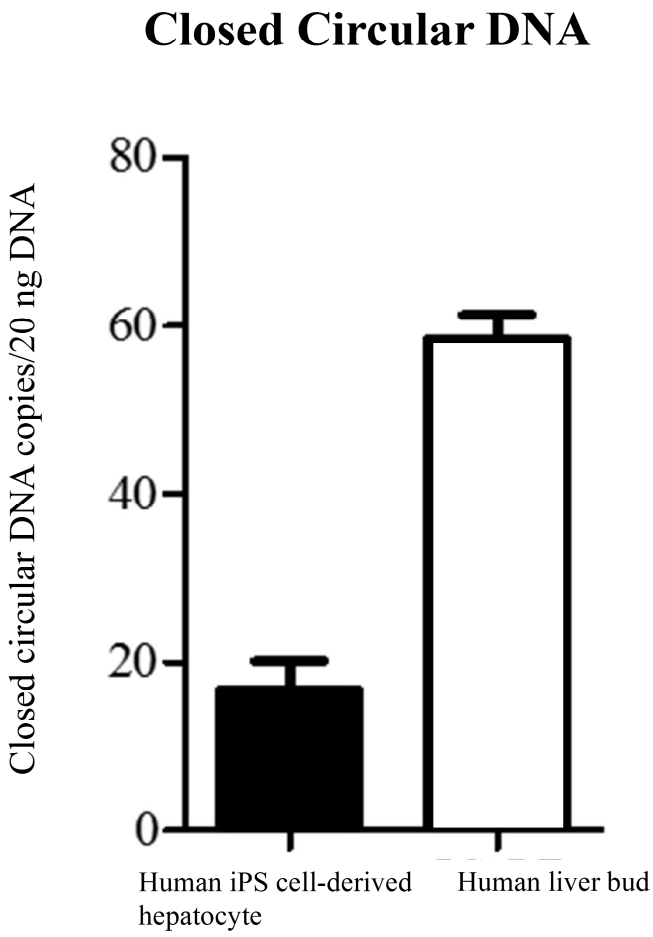

Closed Circular DNA
Closed circular DNA copies/20 ng DNA
80
60
40
20
0
Human iPS cell-derived hepatocyte
Human liver bud

Fig. 7

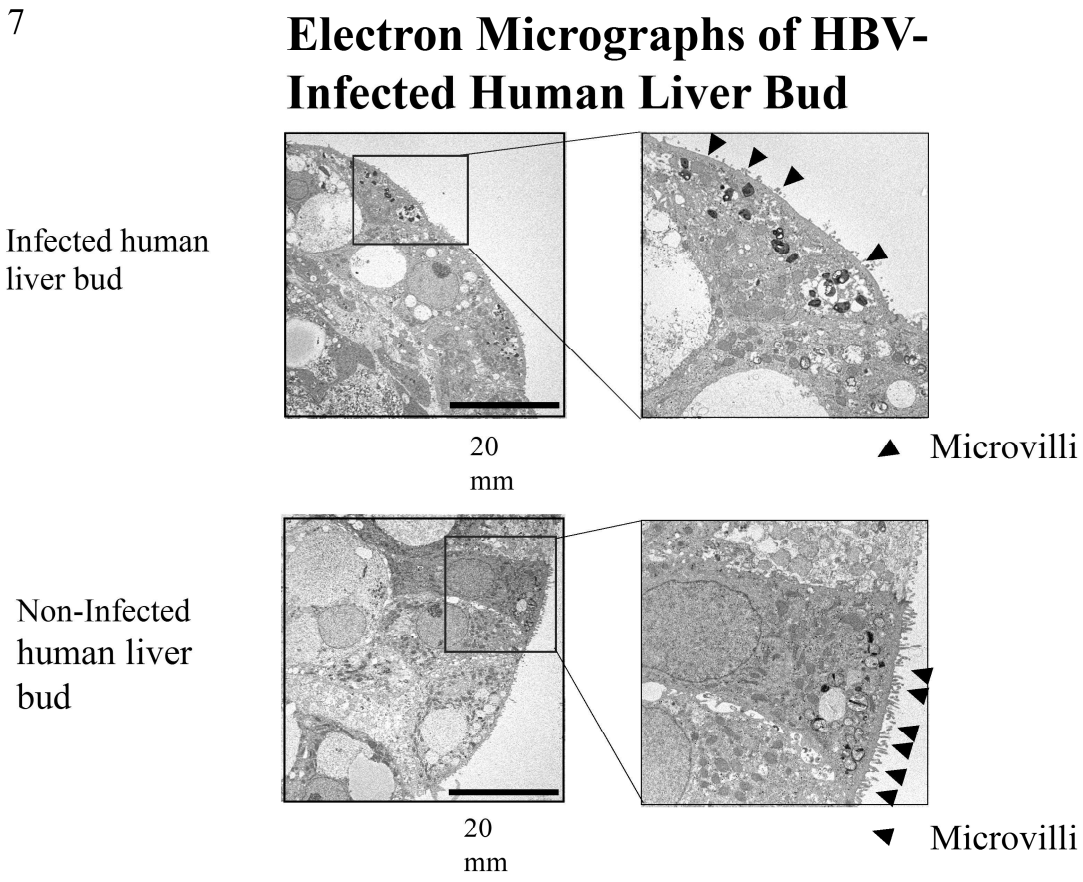
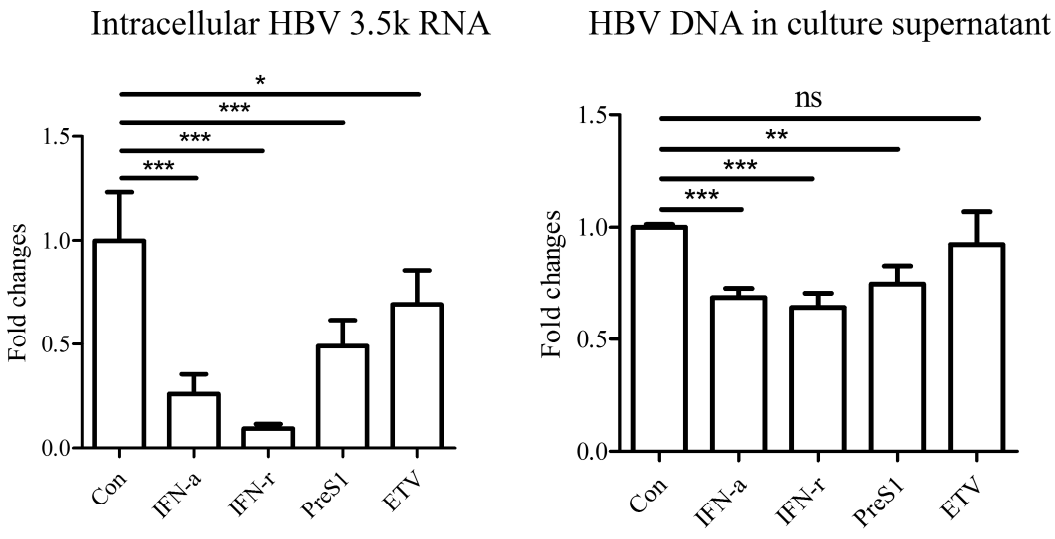

Electron Micrographs of HBV-Infected Human Liver Bud
Infected human liver bud
20 mm
Microvilli
Non-Infected human liver bud
20 mm
Microvilli

Fig. 8

Inhibitory Effects of Various Drugs on HBV-Infected Human Liver Bud