Supplemental Figure 9

A. H&E stained sections of No-BAL, Empty-BAL, and hiHep-BAL.

B. TUNEL assay showing cell death in No-BAL, Empty-BAL, and hiHep-BAL.

C. Bar graph showing relative mRNA levels for p53, AIFM1, and FAS in No-BAL, Empty-BAL, and hiHep-BAL.

D. Ki67 stained sections indicating cell proliferation in No-BAL, Empty-BAL, and hiHep-BAL.

E. Ki67 stained sections highlighting cell cycle phases: Non-division, Prometaphase, Metaphase, and Telophase in No-BAL, Empty-BAL, and hiHep-BAL.

F. Bar graph showing relative mRNA levels for CCNE2, CCNB1, and CCND2 in No-BAL, Empty-BAL, and hiHep-BAL.

Supplemental Figure 9
Figure S9 Characterization of hiHep-BAL-treated ALF pigs

A, Liver sections of ALF miniature pigs were measured by H&E staining. Note the cell death, hemorrhage and inflammation in No-BAL and Empty-BAL-treated pig livers. Livers of No-BAL and Empty-BAL groups were collected at day 2 or 3 and livers of hiHep-BAL group were collected at day 7 after D-gal treatment. B, Cell death was further confirmed by Terminal deoxynucleotidyl transferase dUTP nick end labeling (TUNEL) staining. TUNEL positive cells were stained as green dots overlapped with nuclei. C, Expression levels of cell death-related genes were determined in these livers by q-PCR, including p53, apoptosis-inducing factor mitochondrion-associated 1 (AIFM1) and Fas cell surface death receptor (FAS). D, Ki67 staining of proliferating hepatocytes. Livers of No-BAL and Empty-BAL groups were collected at day 2 or 3 after D-gal-induced acute liver failure. Livers of hiHep-BAL group were collected at day 7. Ki67 positive cells were quantified. E, Histological analyses of proliferating hepatocytes in hiHep-BAL-treated pigs at day 7. The hepatocytes at non-division and different division phases are shown at high magnification. Scale bar, 50 μm. F, Expression levels of proliferation-related genes were measured in livers by q-PCR, including cyclin E2 (CCNE2), cyclin B1 (CCNB1) and cyclin D2 (CCND2).