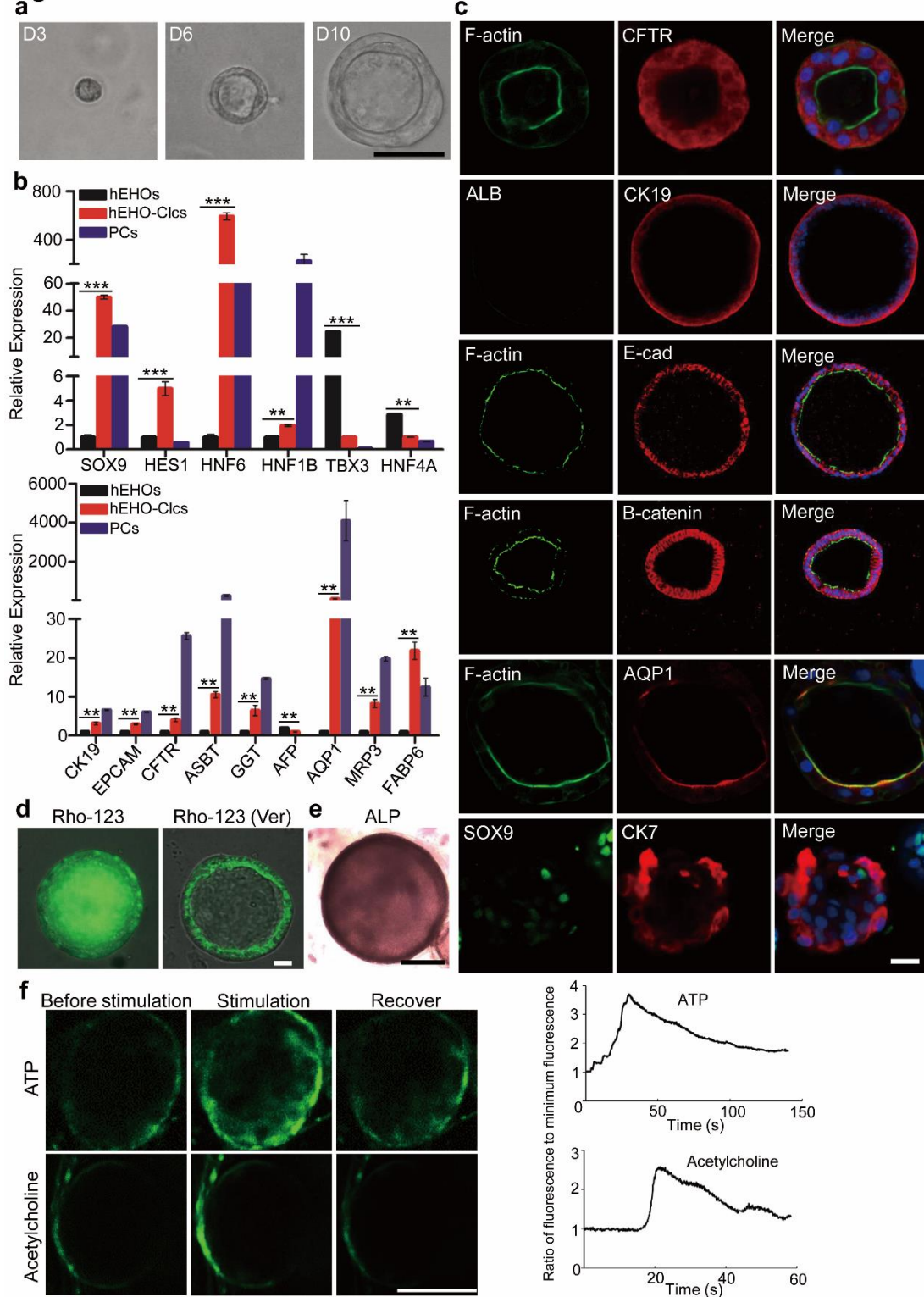


Fig. S6



Supplementary information, Fig. S6 Cells of hEHOs could differentiate into cholangiocytes in vitro. (a) Representative phase-contrast morphology of hEHO-Clcs at day 3, 6, and 10 of the culture. (b) Gene expression profile of hEHO-Clcs compared with undifferentiated hEHOs and PCs. The lowest expression levels were normalized to 1. Results are presented as mean \pm SD from 3 replicates from three independent repeated experiments. (c) hEHO-Clcs were examined for localization of epithelial polarity and cholangiocyte markers. (d) Rhodamine 123 (Rho-123) can be transported into the central lumen of hEHO-Clcs (left panel) and the MDR inhibitor Verapamil (Ver) blocks luminal accumulation of Rhodamine 123 (Right panel). (e) Staining of hEHO-Clcs for ALP activity. (f) Analyzing the response of hEHO-Clcs to ATP and acetylcholine by calcium indicator Fluo-4-based fluorescence intensity measurements. $**P < 0.01$; $*** P < 0.001$. Scale bar: 100 μm (a, e and f), 50 μm (c), 33 μm (d). hEHO-Clcs, hEHO-derived cholangiocytes; PCs, primary cholangiocytes; MDR, multidrug resistance; ALP, alkaline phosphatase.