A

$$PA\% = \frac{\text{Portal area}}{\text{Liver tissue area}}$$

$$BE\% = \frac{\text{BE area}}{\text{Liver tissue area}}$$

$$PIH\% = \frac{\text{PIH area}}{\text{Parenchymal area}}$$

$$DR\% = \frac{\text{PIH area} + \text{BE area}}{\text{Liver tissue area}}$$

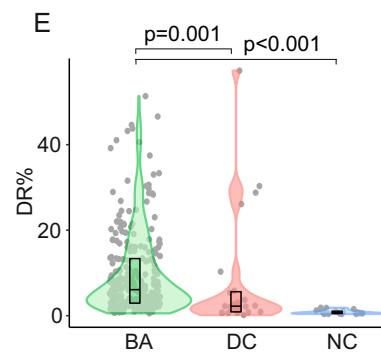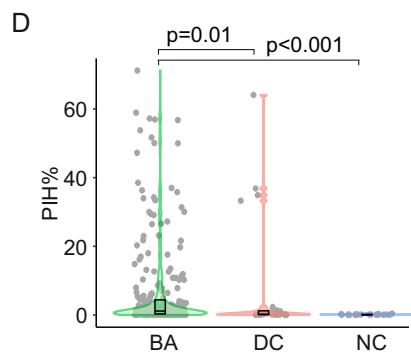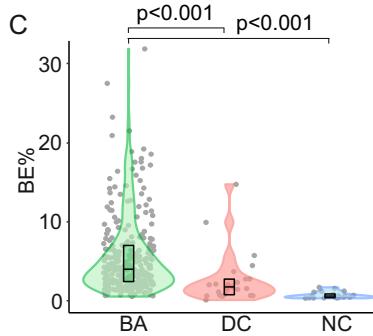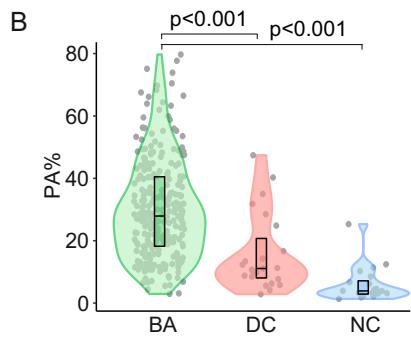$$PIH\text{ density} = \frac{\text{PIH cells}}{\text{Parenchymal area}}$$
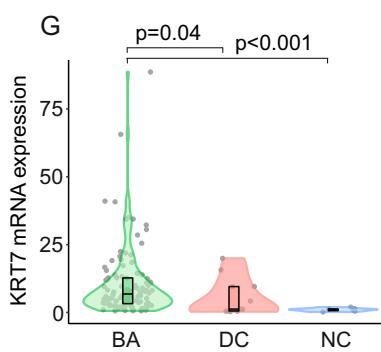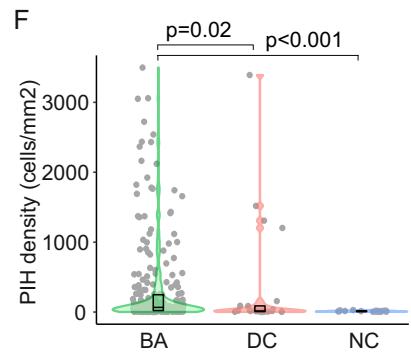
Supplementary Fig. 2. Formulas for CharBADR components and comparison to controls.
(A) Formulas to calculate CharBADR components. Differences of (B) PA%, (C) BE%,
(D) PIH%, (E) DR%, (F) PIH density, and (G) KRT7 mRNA expression between BA patients,
cholestatic disease controls, and normal controls. BA, biliary atresia; BE, biliary epithelium;
DC, disease control; DR, ductular reaction; KRT7, keratin 7; NC, normal control; PA, portal
area; PIH, parenchymal intermediate hepatocytes.