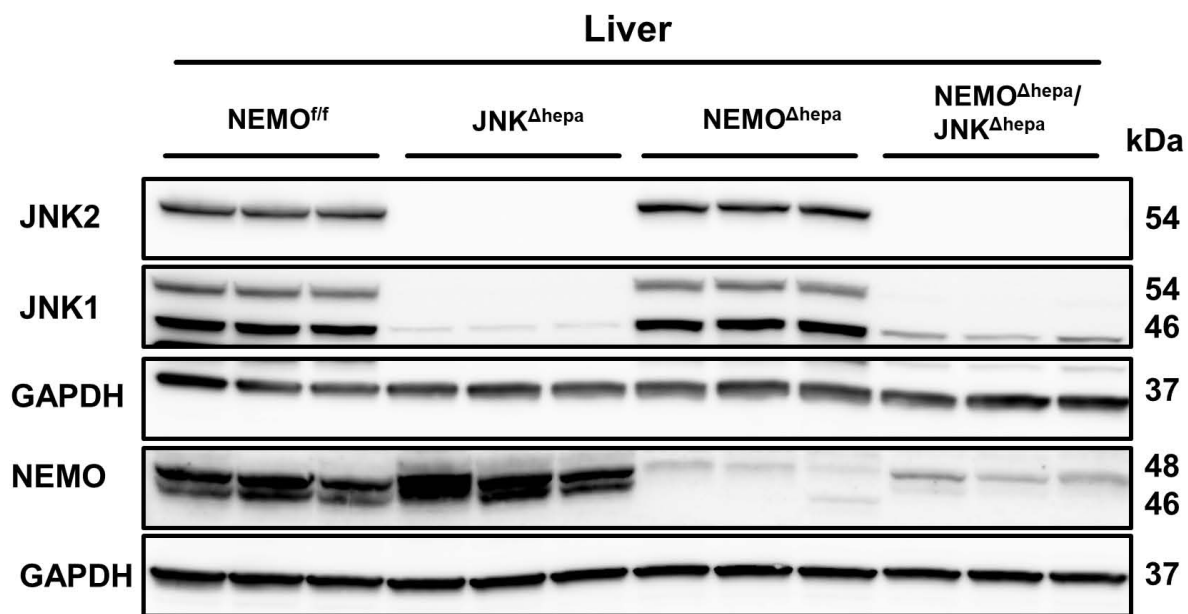
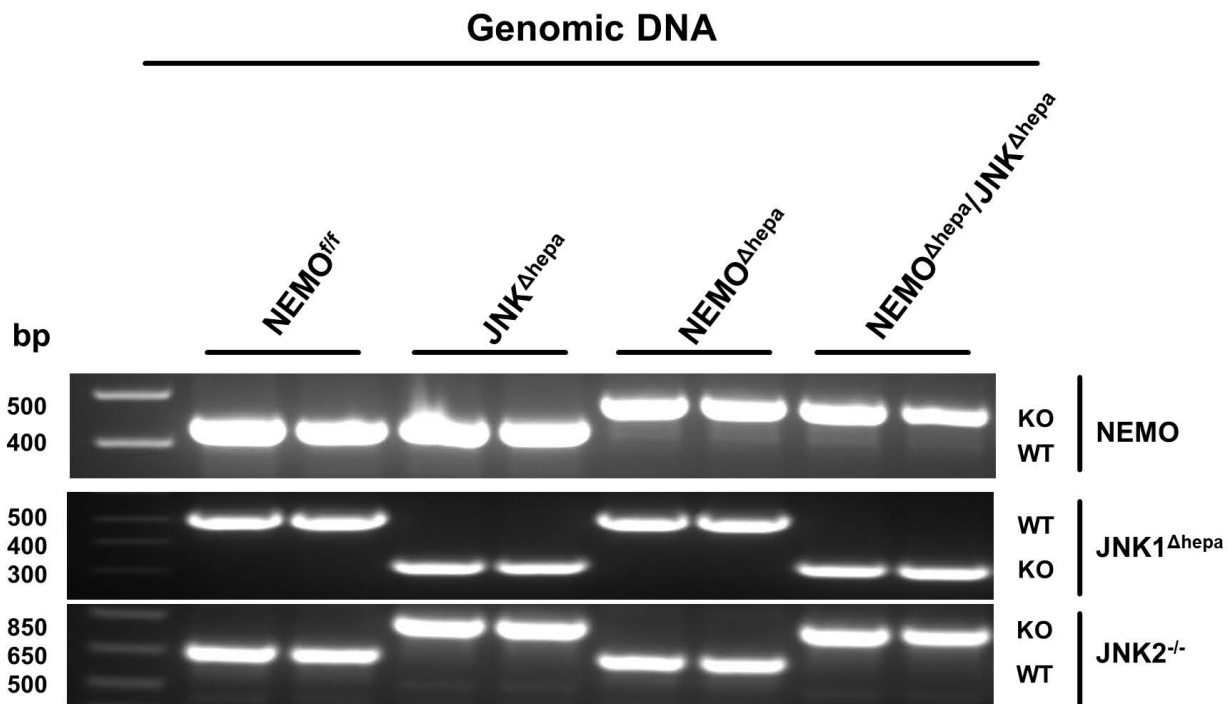
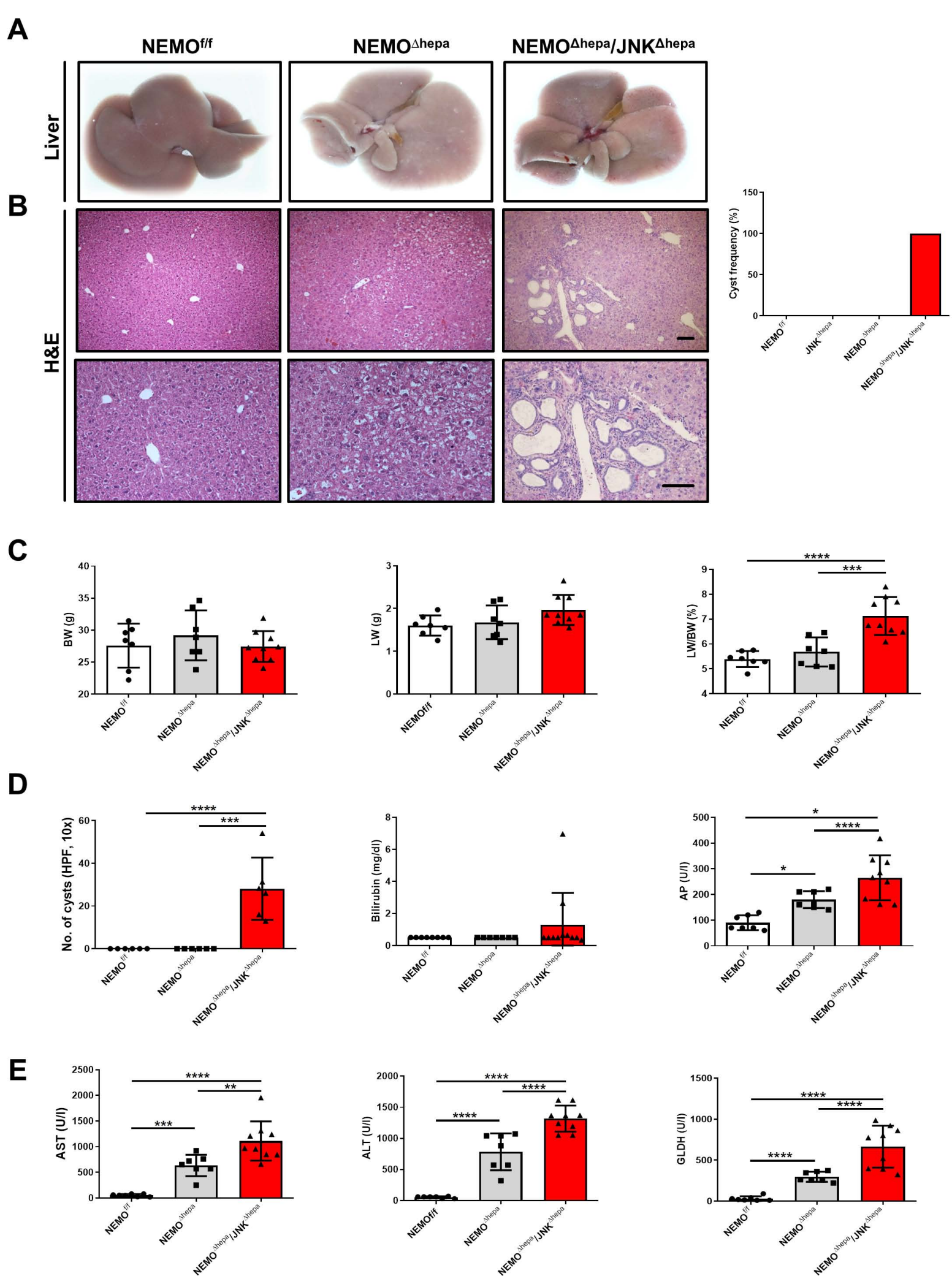
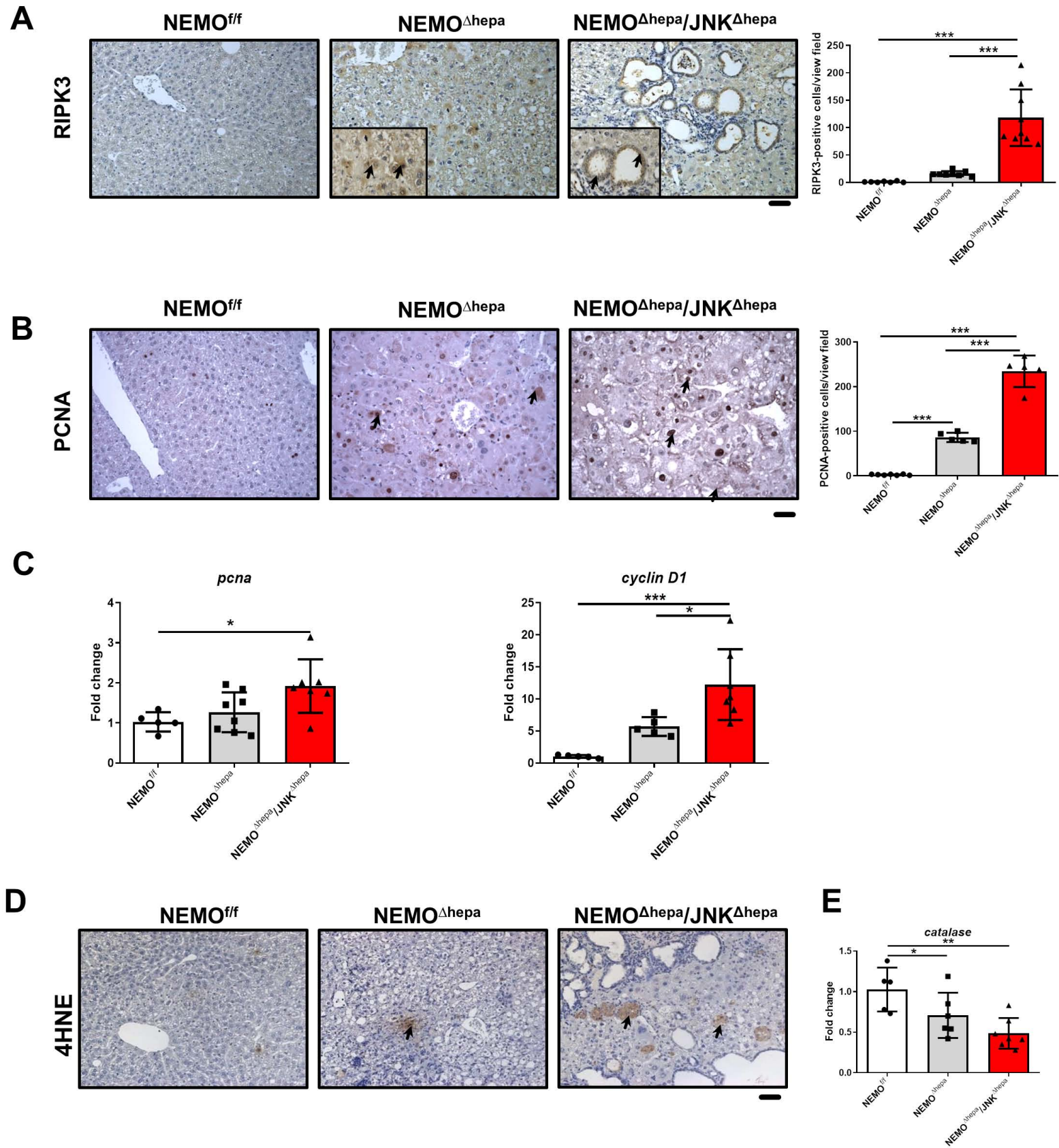


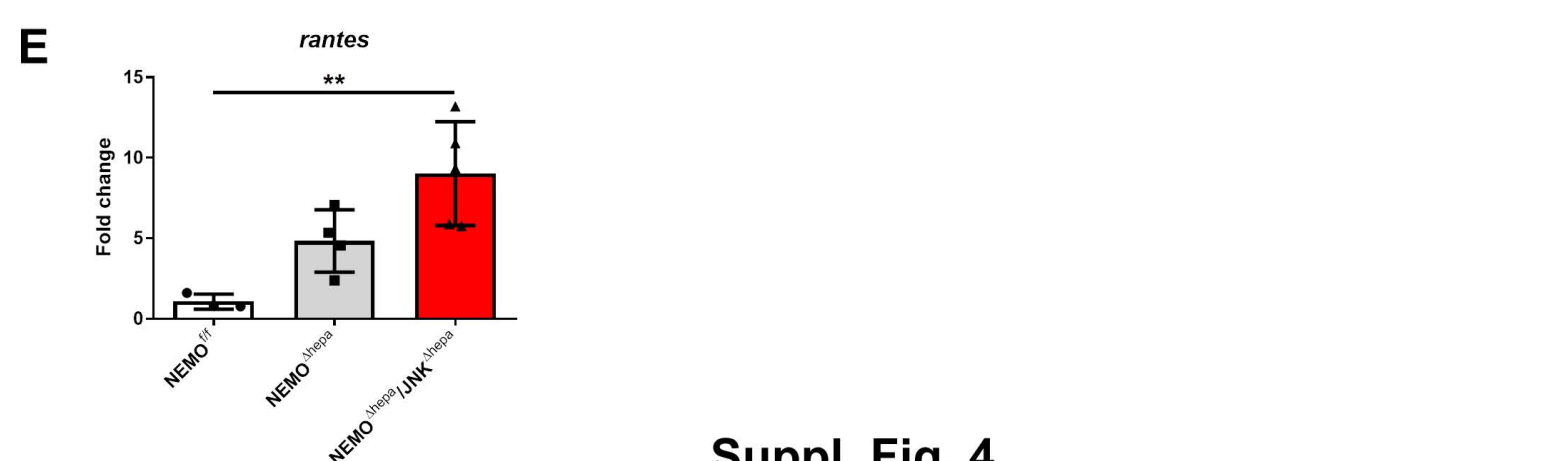
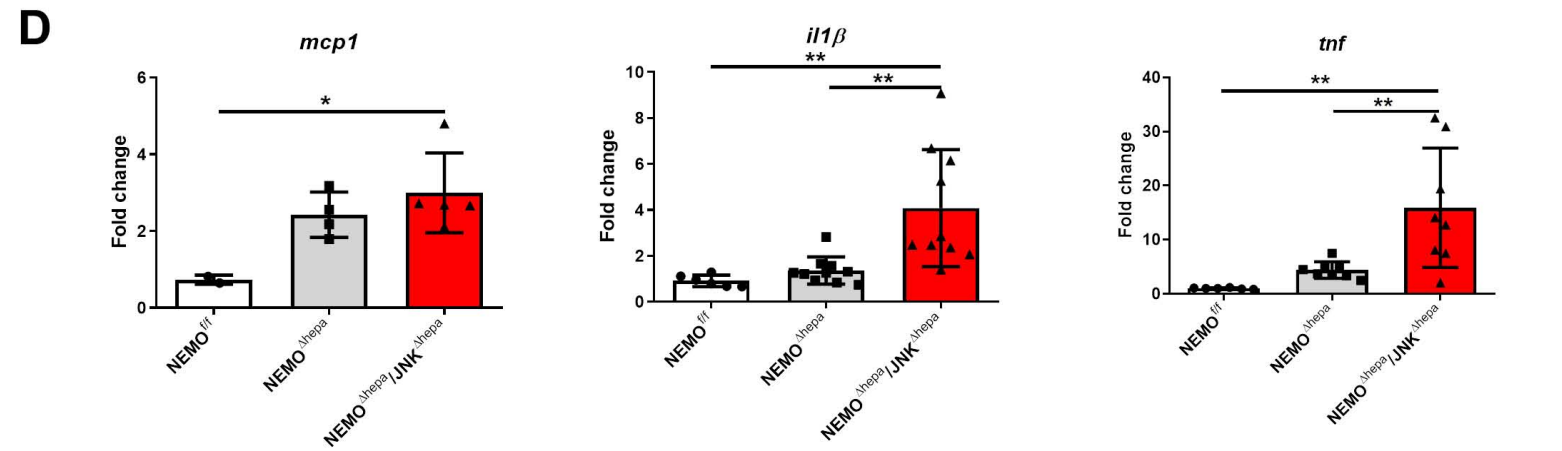
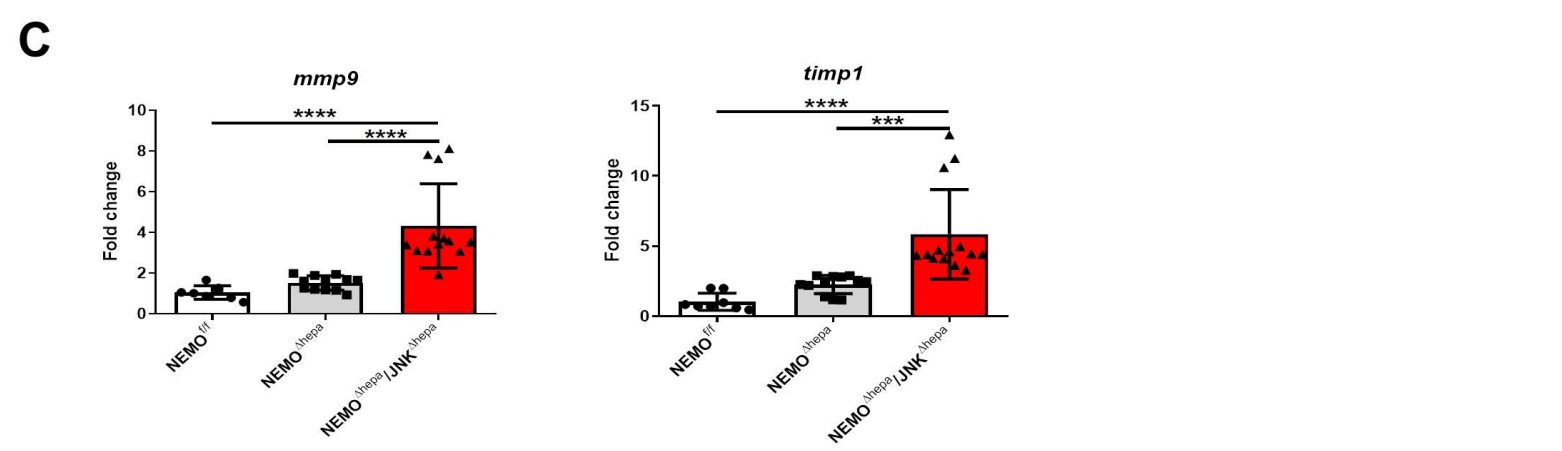
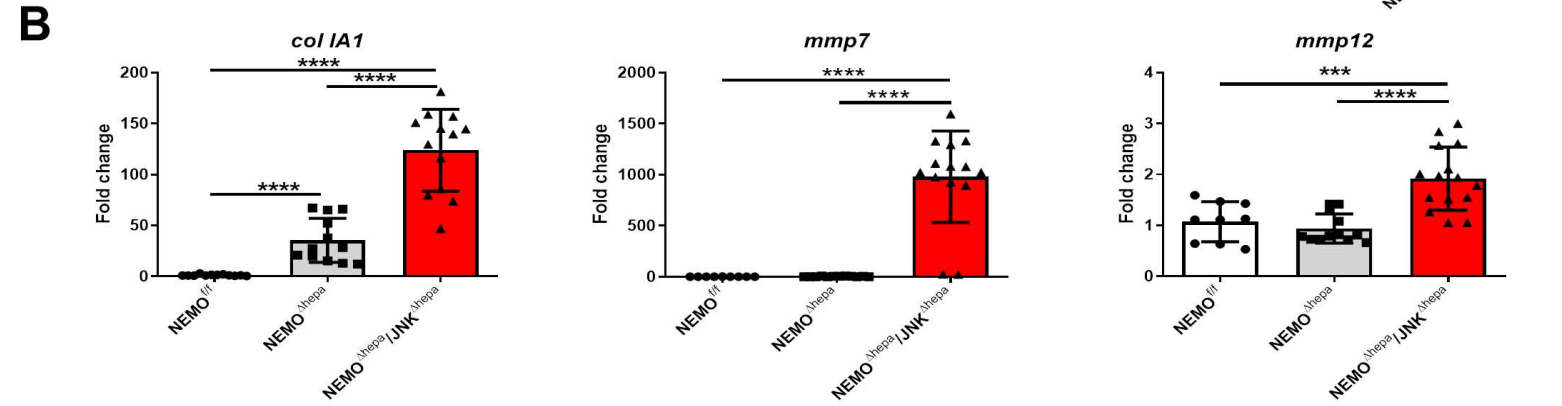
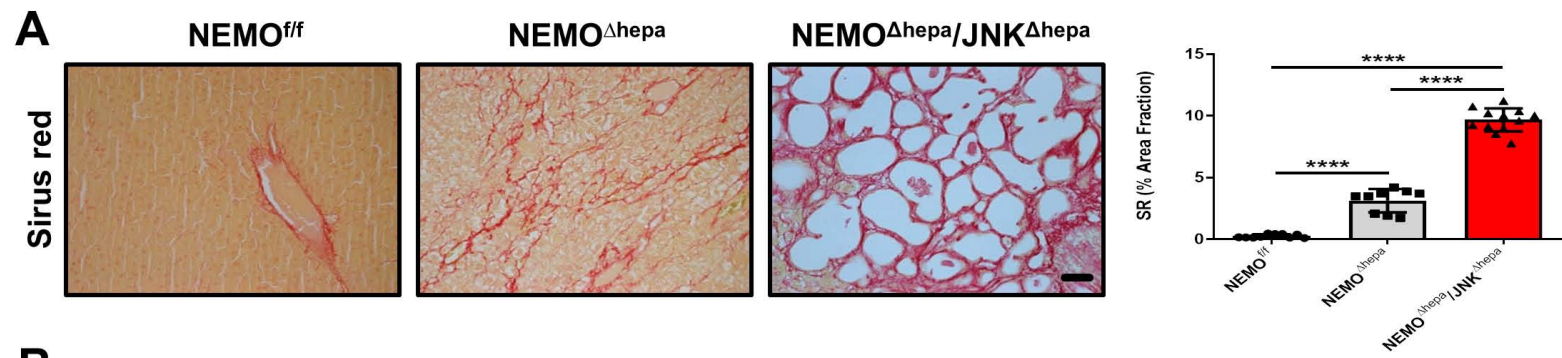
A**B**



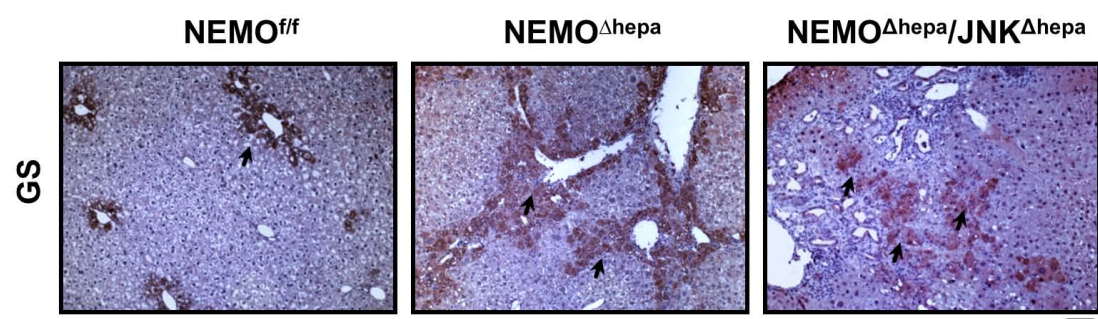
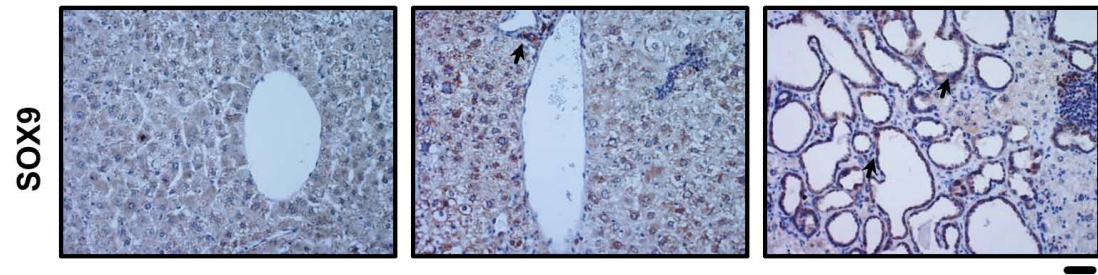
Suppl. Fig. 2

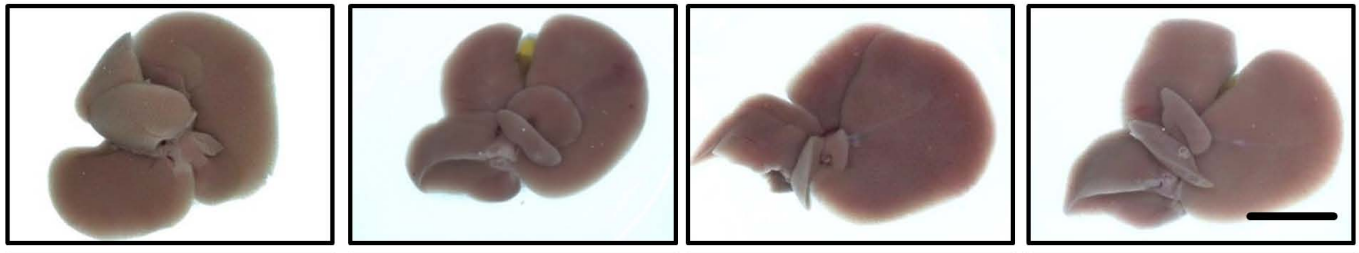
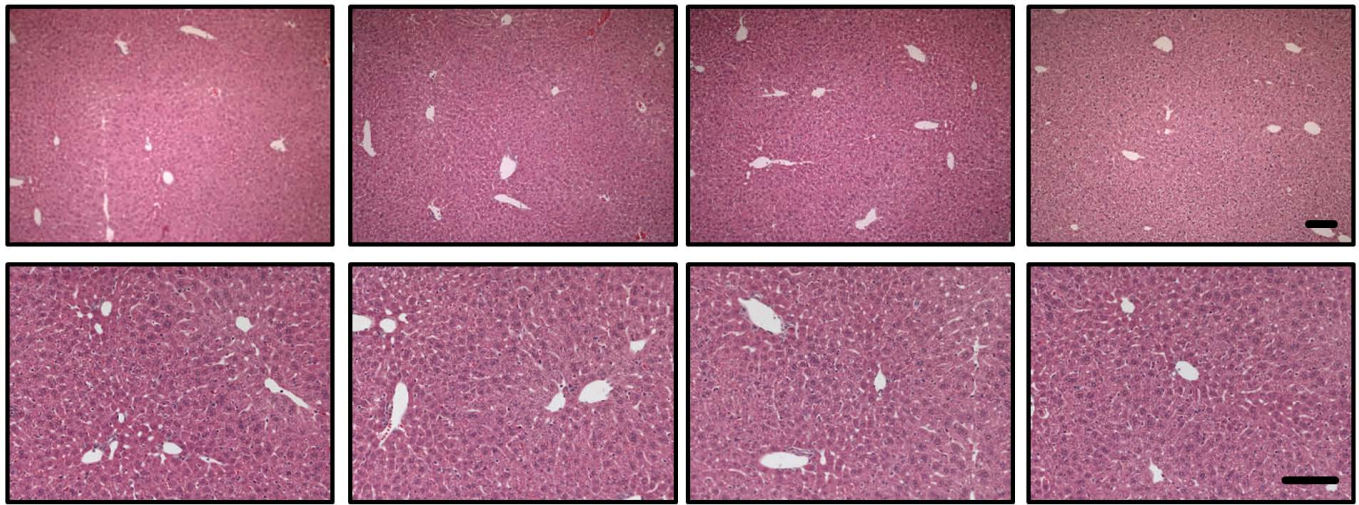
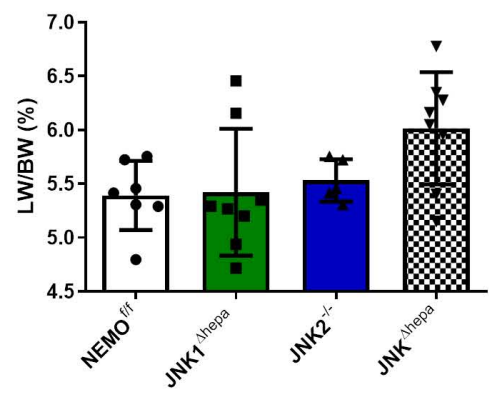
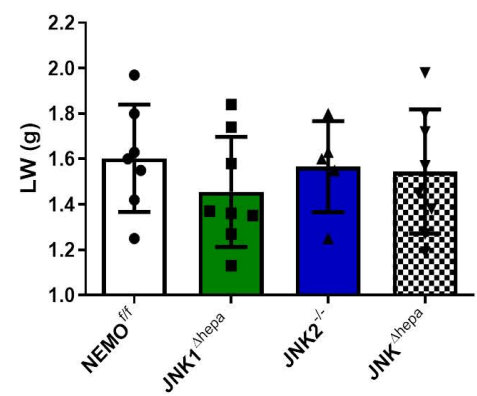
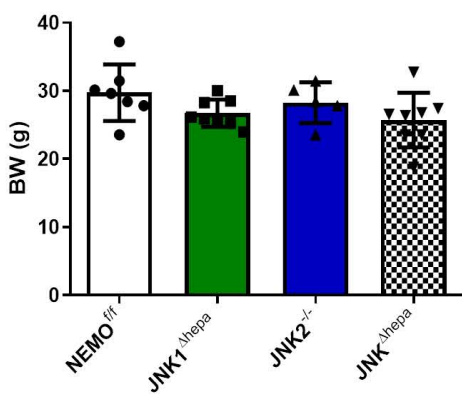
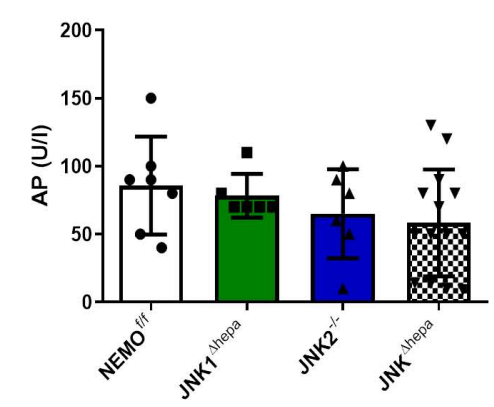
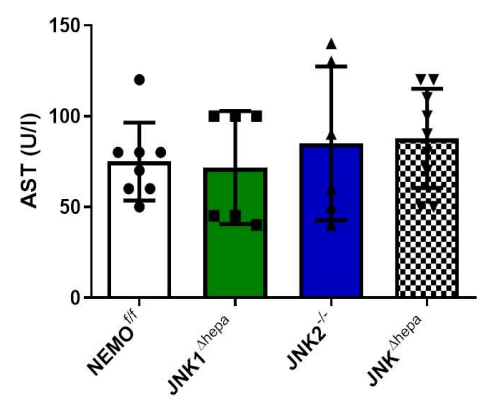
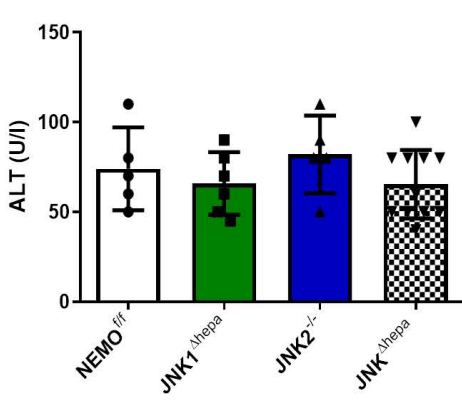


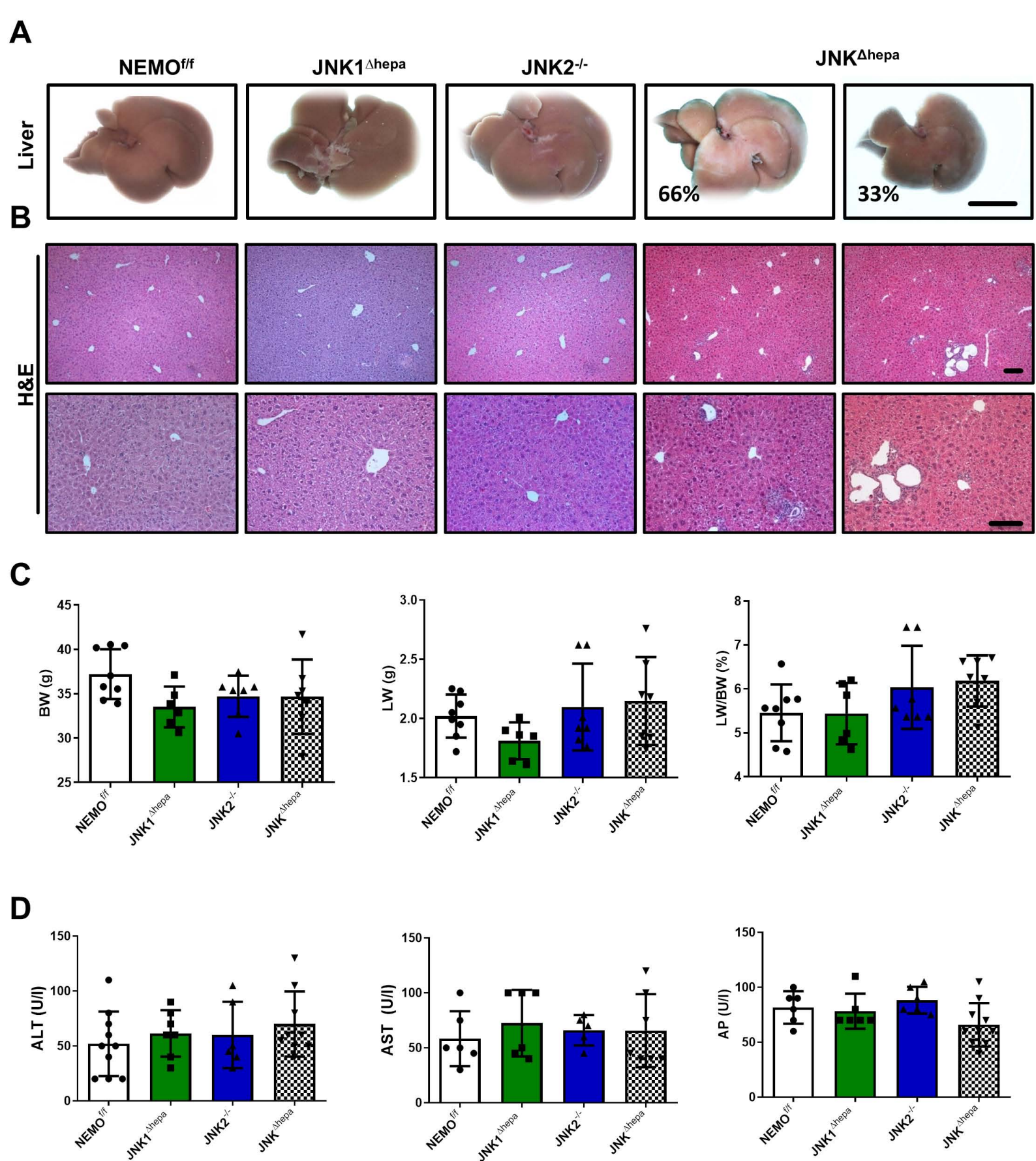
Suppl. Fig. 3



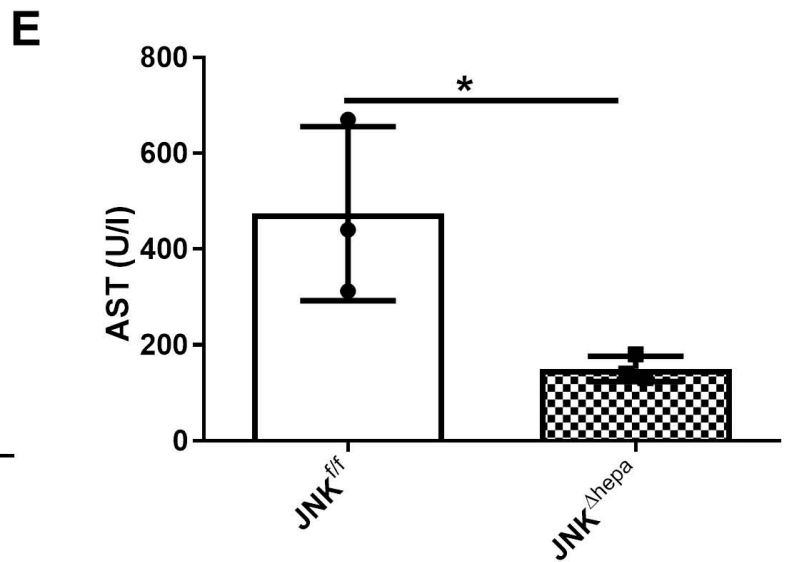
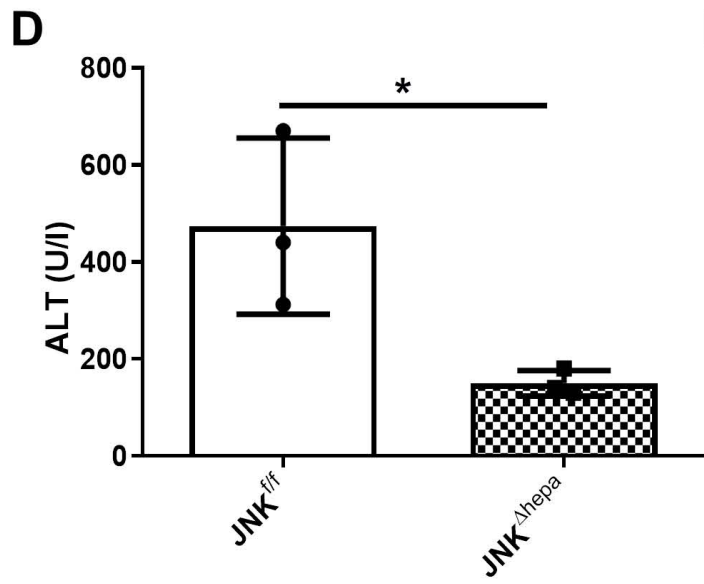
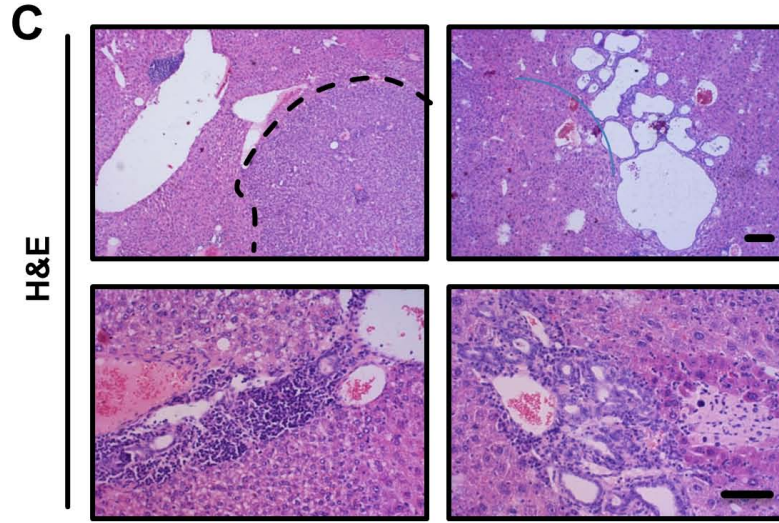
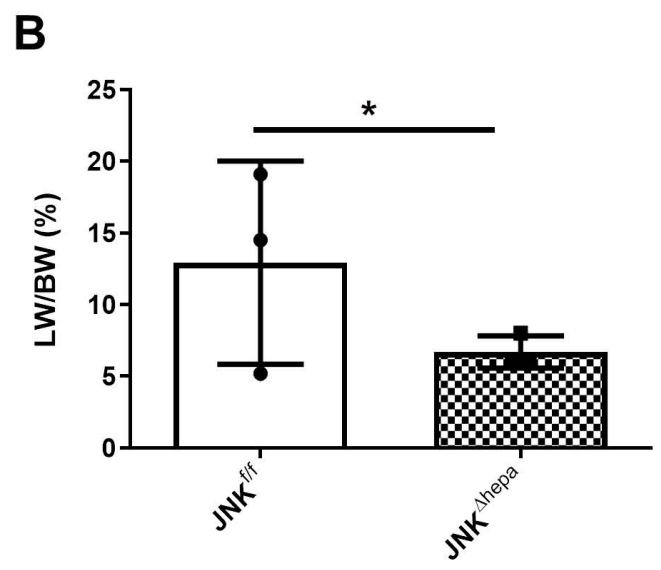
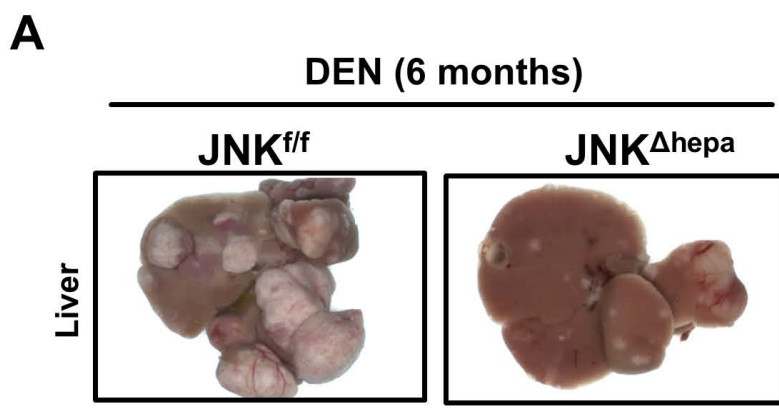
Suppl. Fig. 4

A**B**

A**NEMO^{fl/fl}****JNK1^{Δhepa}****JNK2^{-/-}****JNK^{Δhepa}****Liver****B****H&E****C****D****Suppl. Fig. 6**



Suppl. Fig. 7



A

NEMO^{Δhepa} /JNK^{ff} vs NEMO^{Δhepa} /JNK^{Δhepa}

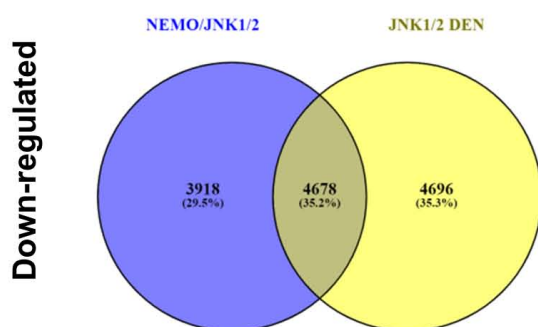
Top canonical pathways	Top upstream regulators	Top Molecules	
		Up-regulated	Down-regulated
IGF-1 signaling CDK signaling Liver hyperplasia/hyperproliferation Liver regeneration Carcinoma Liver inflammation CYP450 Nrf2-ROS FFA metabolism Xenobiotic metabolism	TCF7 Lipid metabolism Tissue differentiation	<i>dmtb1</i> <i>gabrp</i> <i>mmp7</i> <i>ighg1</i> <i>cyp2s1</i> <i>muc1</i> <i>krt19</i> <i>ighg2b</i> <i>tff2</i> <i>gpr128</i>	<i>mapk9</i> <i>ugt1a1</i> <i>myot</i> <i>mogat1</i> <i>sprr1a</i> <i>ubd</i> <i>spon2</i> <i>aet1d/e</i> <i>foh1</i> <i>rragd</i>

B

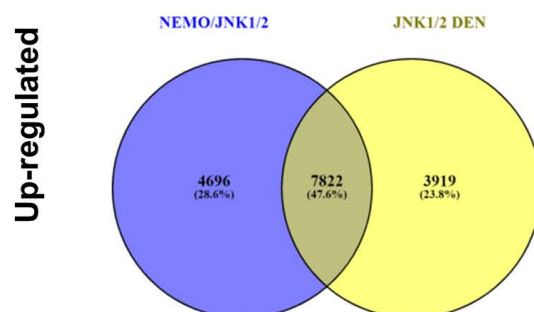
JNK^{ff} vs JNK^{Δhepa} + DEN

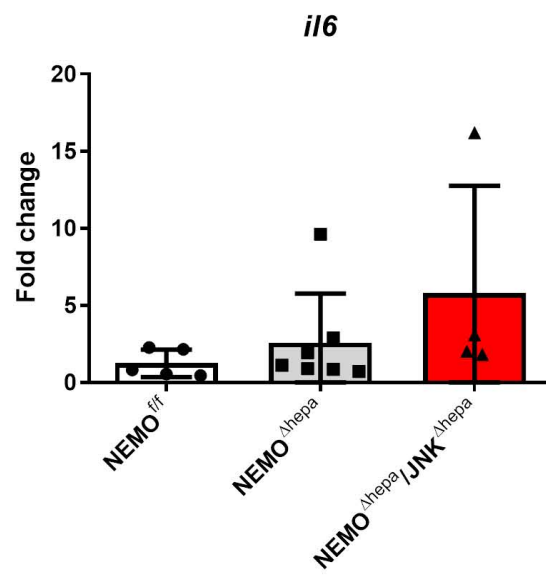
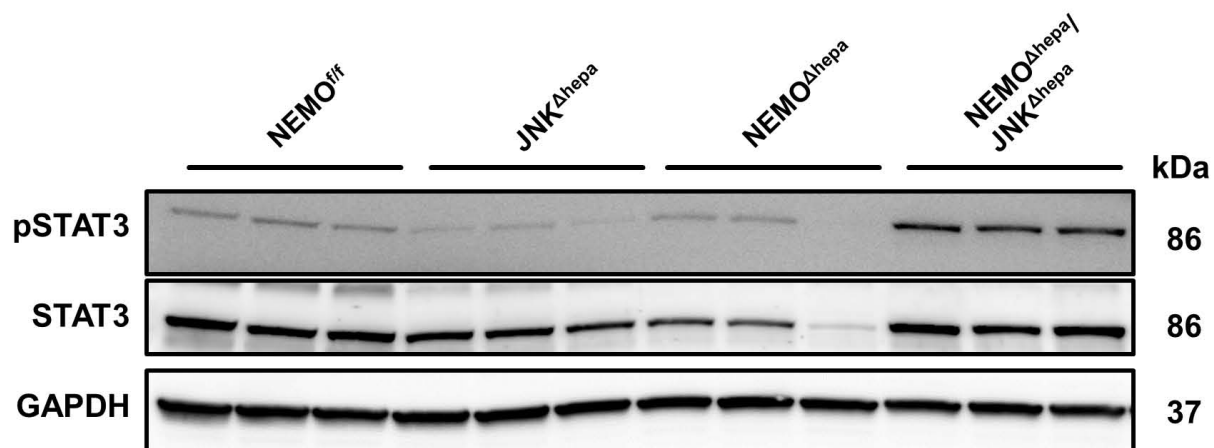
Top canonical pathways	Top upstream regulators	Top Molecules	
		Up-regulated	Down-regulated
HSC activation Liver fibrogenesis B cell development Th cell differentiation Liver hyperplasia/hyperproliferation Carcinoma Liver cholestasis	LPS IFN γ IL-4 TNF	<i>gabrp</i> <i>hsd3b4</i> <i>hamp/hamp2</i> <i>ccl17</i> <i>xist</i> <i>nfkb2</i> <i>dmbt1</i> <i>ighg2b</i> <i>muc1</i>	<i>akr1c3</i> <i>cpe</i> <i>Comm3-bmi1</i> <i>gldn</i> <i>cacna1b</i> <i>csn3</i> <i>plin4</i> <i>eif2s3y</i> <i>ocstamp</i> <i>tspan8</i>

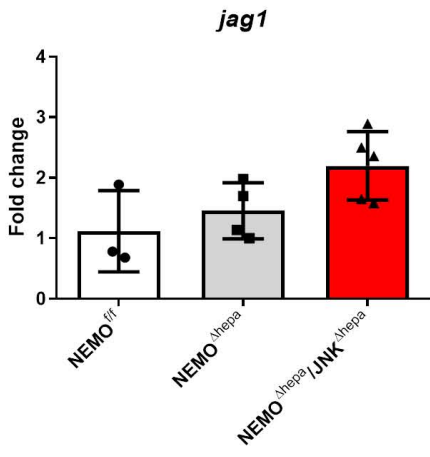
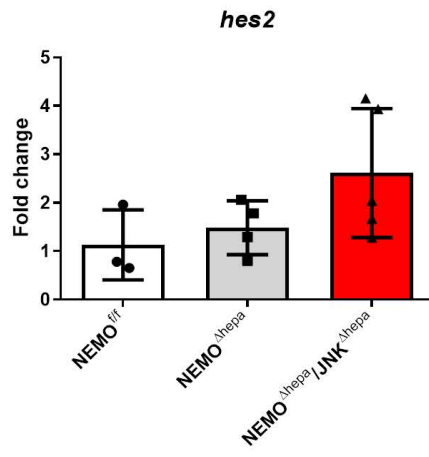
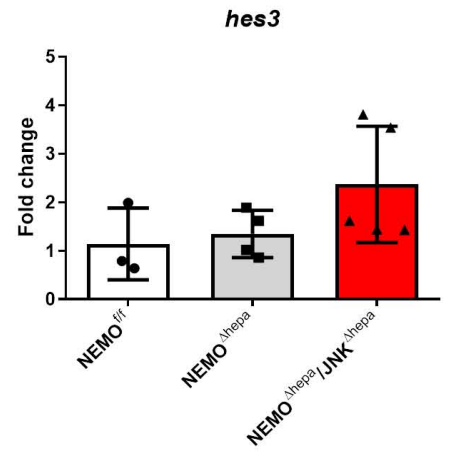
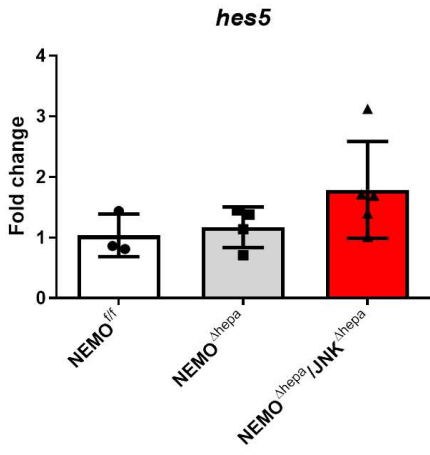
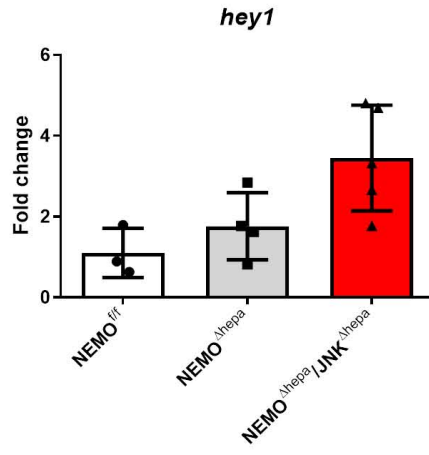
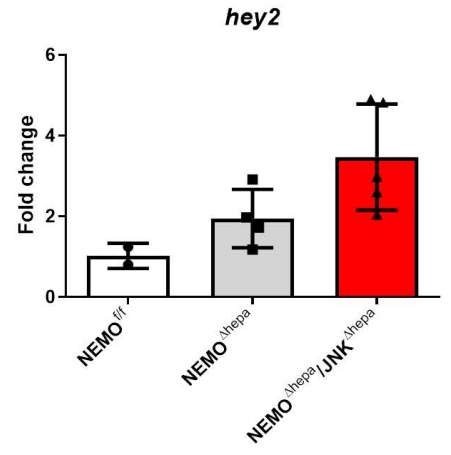
C

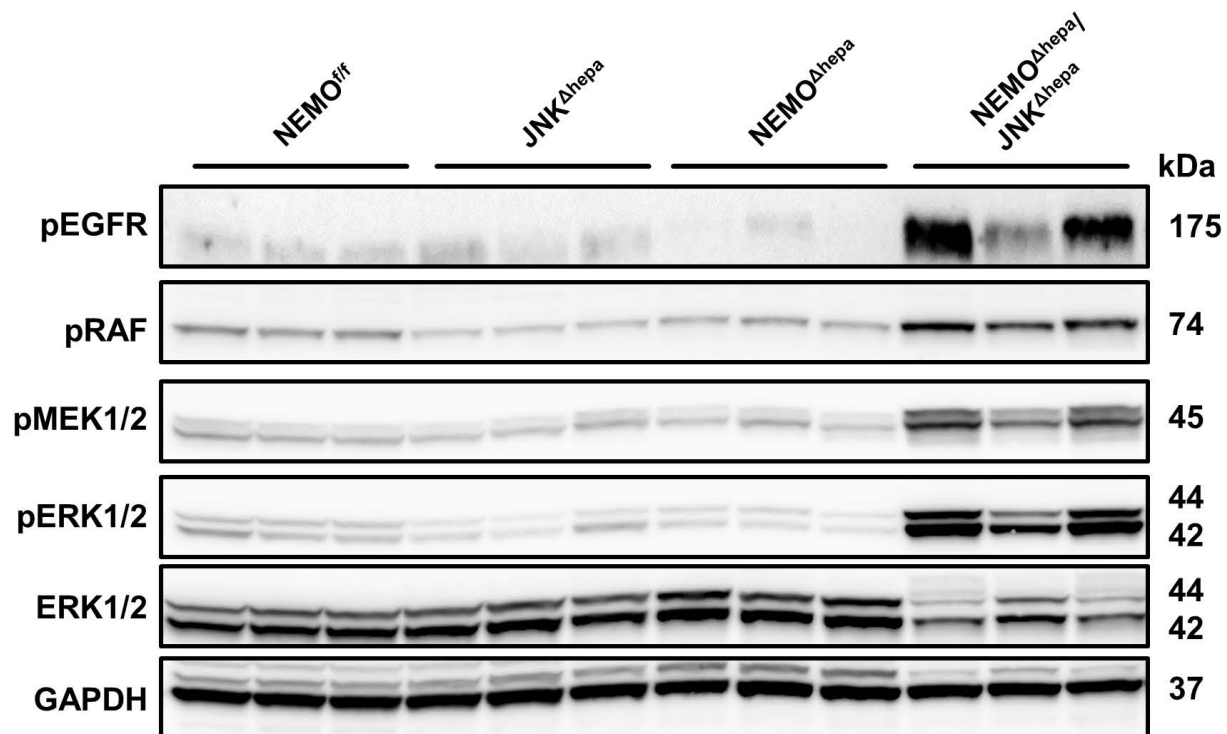


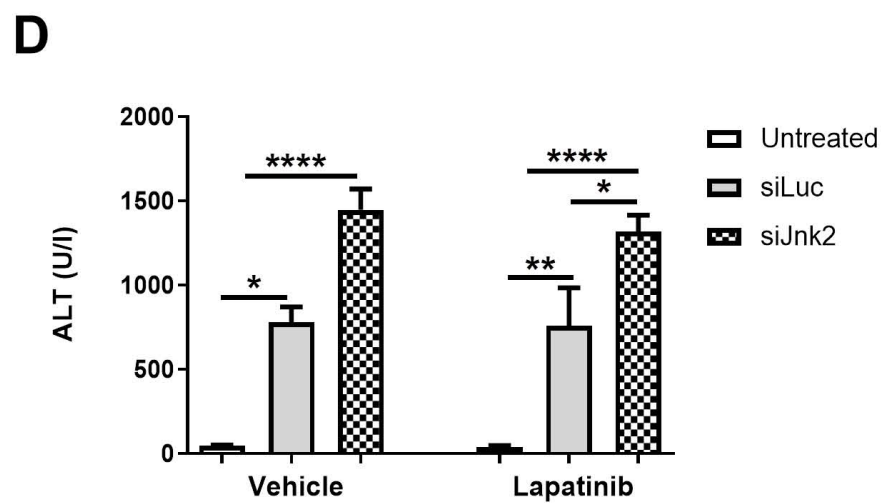
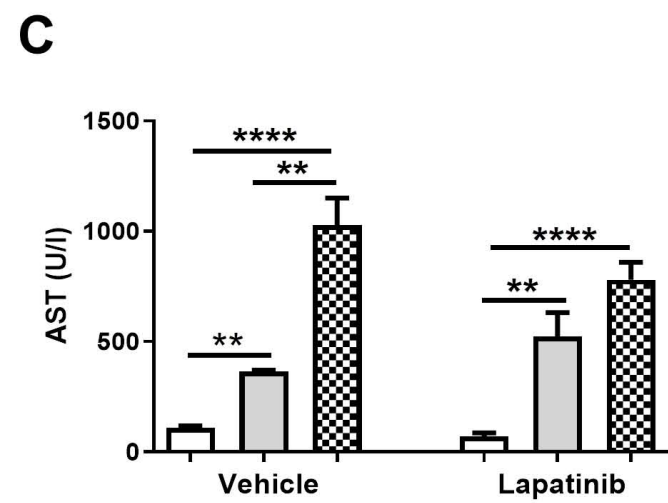
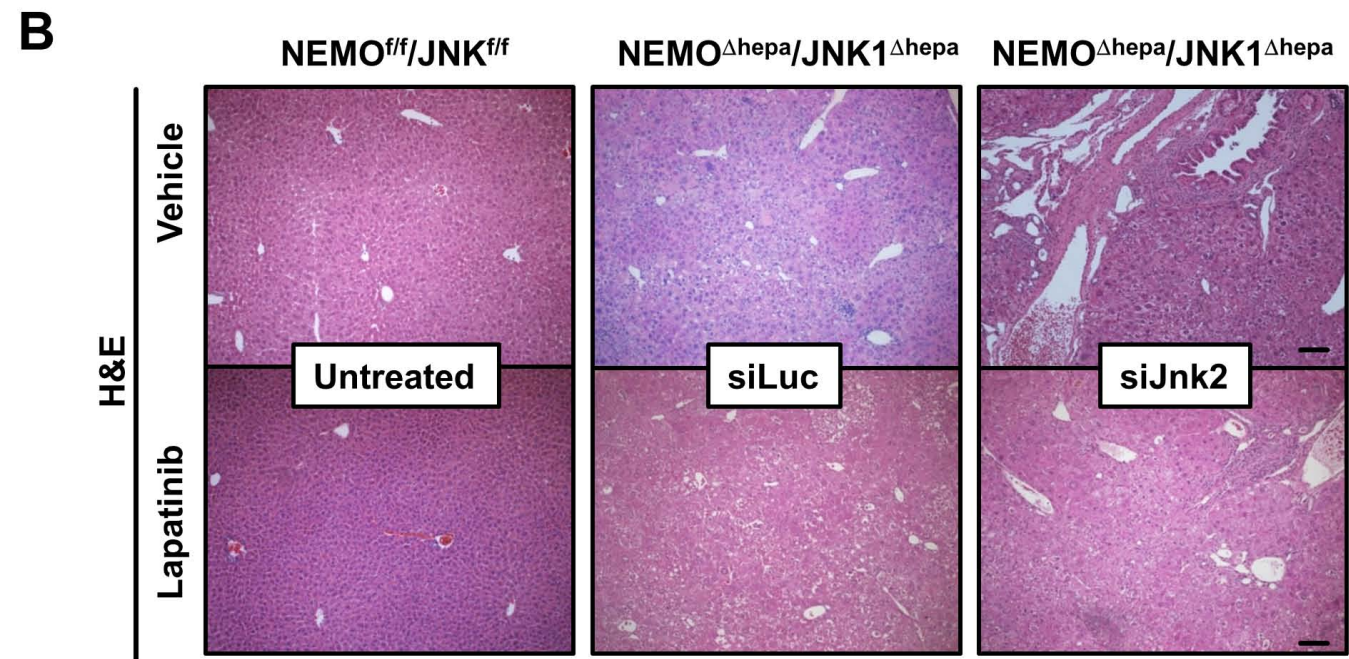
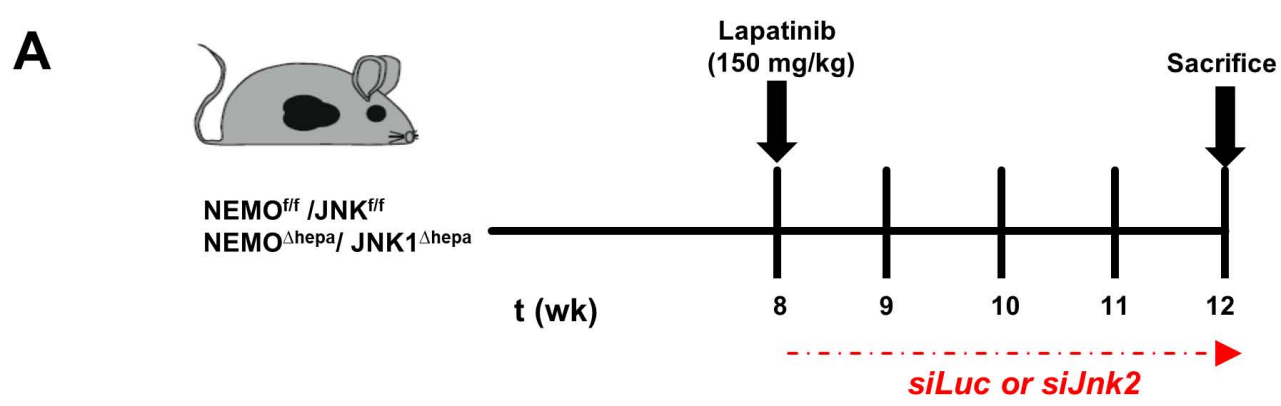
D

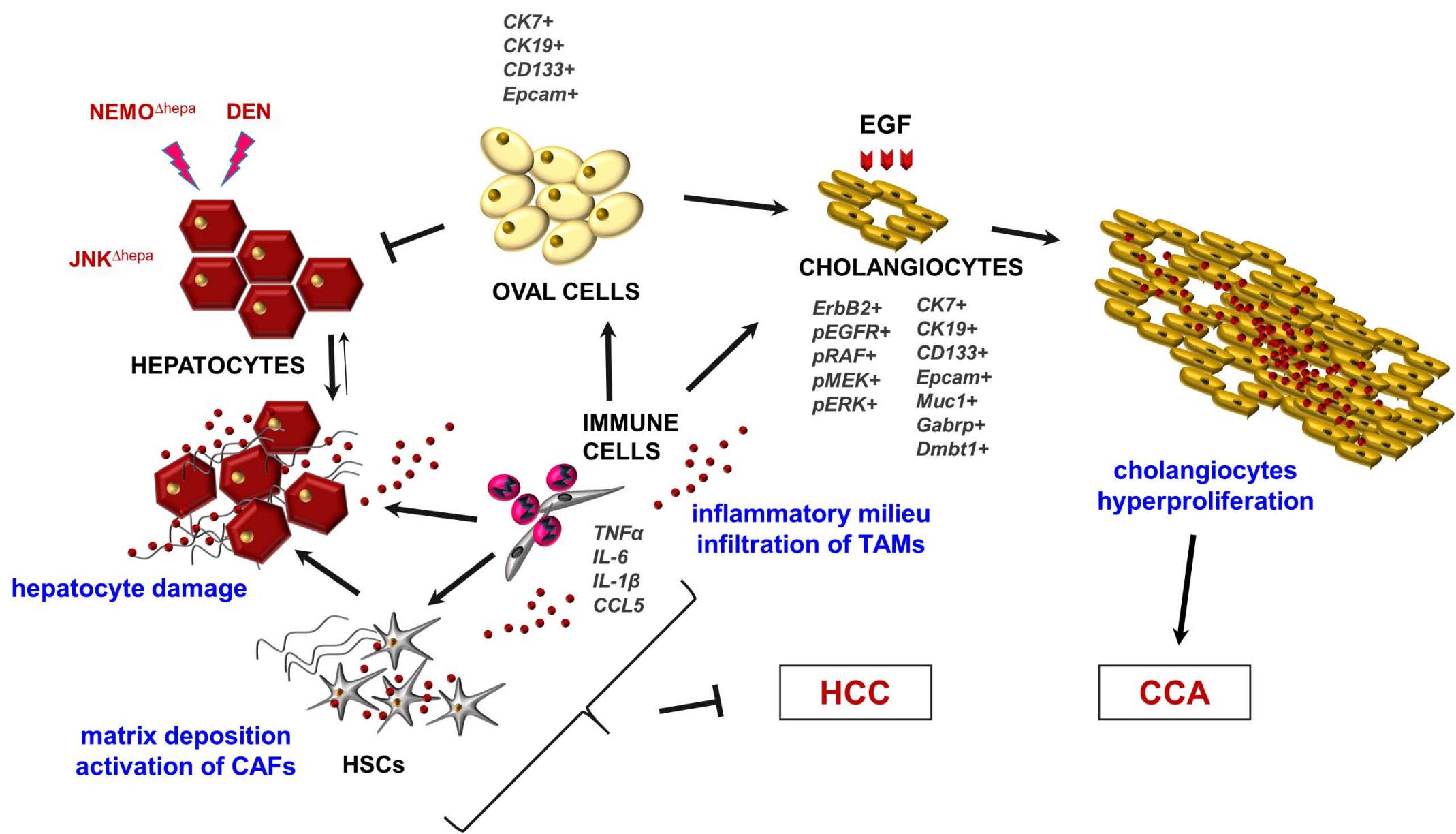


A**B**

A**B****C****D****E****F**

A





Suppl. Fig. 14