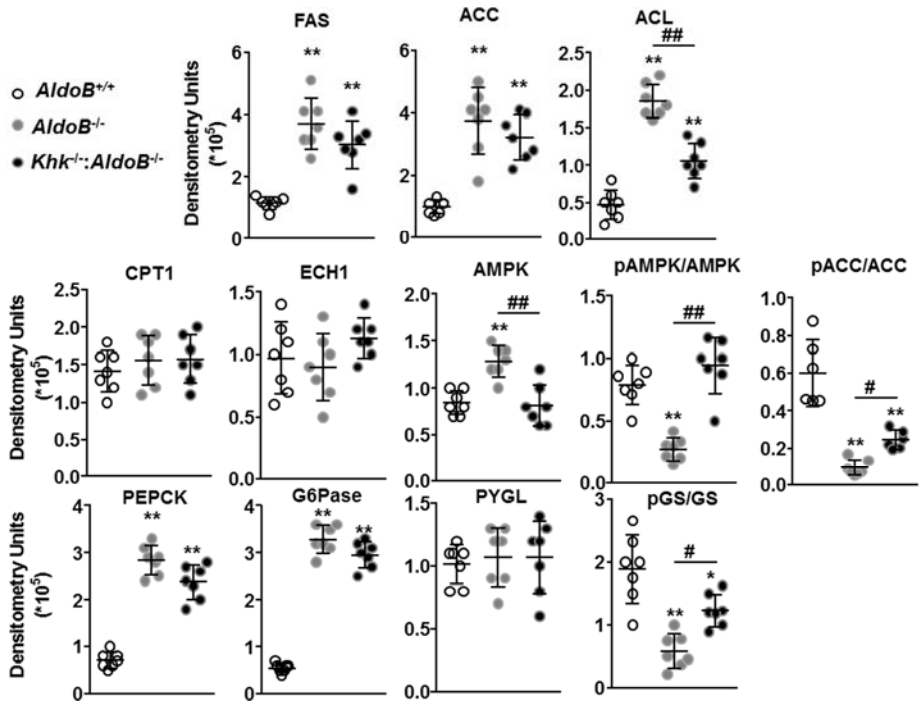
			Wild Type		AldoB KO		AldoB/FKA-A/C KO	
Feature		**Points**	Water (N=5)	Fructose (n=5)	Water (N=5)	Fructose (n=5)	Water (N=5)	Fructose (n=5)
Liver Cell Injury								
Ballooning	None	0	x	x		x	x	x
	Few	2			x			
	Many	4						
Acidophil Bodies	None	0	x	x	x		x	x
	Few	2						
	Many (>1/200x field)	4				x		
Necrotic Cells	None	0	x	x	x		x	x
	Present (>2/200x field)	2				x		
Pigmented Marophages	None	0	x	x	x		x	x
	Many	1				x		
Megamitochondria	None	0	x	x	x	x	x	x
	Present	1						
Sinusoidal Dilation & Congestion	None	0	x	x	x	x	x	x
	Yes (>3 RBC diameter)	1						
True abscesses (>6 cell diameter)	No	0	x	x	x	x	x	
	Yes (>1/40x field)	1						x
Liver Cell Injury Subtotal			**0**	**0**	**2**	**7**	**0**	**1**
Inflammation								
Lobular Inflammation	<2/200x field	0	x	x			x	x
	2/200x field	1						
	2-4/200x field	2						
	>4/200x field	3			x	x		
Foci of inflammatory cells	Absent (<1/200x field)	0	x	x				x
	Present (>1/200x field)	1			x	x	x	
Lipogranulomas	Absent	0	x	x		x	x	x
	Present	1			x			
Portal Inflammation	None to minimal	0	x	x	x		x	x
	More than minimal	1				x		
Ceroid Laden Kupffer C (DAPI only stn)	No	0	?	?	?	?	?	?
	Yes (>3/200x field)	1						
Langhans Giant Cells	No	0	x	x	x	x	x	x
	Yes (>1/200x field)	1						
Foamy Macrophages (PAS stn)	No	0	x	x	x	x	x	x
	Yes (>1/200x field)	1						
Inflammation Subtotal			**0**	**0**	**4**	**5**	**1**	**0**
Other								
Mallory's Hyaline	None	0	x	x	x	x	x	x
	Many	1						
Glycogenated nuclei	<1/200x field	0	x	x	x		x	x
	1-3/200x field	1				x		
	>3/200x field	2						
Ductal Reaction	None	0	x	x	x		x	x
	Minor	1						
	Robust	2				x		
Mitotic Figures	<2/200x field	0	x	x	x		x	x
	>2/200x field	1				x		
Hyperpl nod regen morph	No	0	x	x	x	x	x	x
	Yes	1						
	None	0	x	x	x	x	x	

Hyalinized & Thickened PV&HA	Present	1						
GC Transformation	No	0	x	x	x	x	x	x
	Yes	1						
Other Subtotal			**0**	**0**	**0**	**4**	**0**	**0**
Steatosis								
Macrovesicular steatosis (vesicles larger than nuclei)	<10%	0	x	x			x	X
	10-33%	1				x		
	33-66%	2			x			
	>66%	3						
Microvesicular steatosis (filled with small vesicles, central nucleus)	Not present	0	x	x	x	x	x	x
	Present	1						
Steatosis Subtotal			**0**	**0**	**2**	**1**	**0**	**0**
Fibrosis								
Stage	None	0	x	x	x		x	x
	Perisinusoidal (PS)	1						
	Periportal(PP)/Centrilob (CL) only	1						
	Bridging fibrosis	2				x		
	Cirrhosis	3						
Fibrosis Subtotal			0	0	0	2	0	0
Scoring by Category			Wild Type		AldoB KO		AldoB/FKA-A/C KO	
			Water (N=5)	Fructose (n=5)	Water (N=5)	Fructose (n=5)	Water (N=5)	Fructose (n=5)
Injury			0	0	2	7	0	1
Inflammation			0	0	4	5	1	0
Other			0	0	0	3	0	0
Steatosis			0	0	2	1	0	0
Fibrosis			0	0	0	2	0	0
Total			**0**	**0**	**8**	**18**	**1**	**1**
Additional Comments								
1) Score macrosteatosis at 200x								
2) Macrovesicular CLD must be equal to or larger in size than hepato nuclei								
3) Microvesicular steatosis must completely fill the hepatocyte with small CLD and have a central nucleus								
4) Assess fibrosis with Trichrome stained slide								
5) Lobar inflammation refers to the sum of all types of inflammation								

Supplemental Table 1: Brunt Scoring on mice exposed to water or fructose.



Supplemental Figure 1: Western blot densitometry of lipogenic (top row), fat-oxidation related (middle row) and glucose metabolism-related proteins in wild type (*Aldob*$^{+/+}$), AldoB-KO mice (*Aldob*$^{-/-}$) or AldoB/Khk DKO (Khk $^{-/-}$:*Aldob*$^{-/-}$) mice exposed to fructose. n=7 mice per group Pairwise statistical significance was calculated using One Way ANOVA-Tukey post hoc analysis, and significant differences denoted by *p< 0.05 and **p<0.01 versus wild type. $^{\#}$ p<0.05 $^{\#\#}$ p<0.01 (n=7 animals per group).