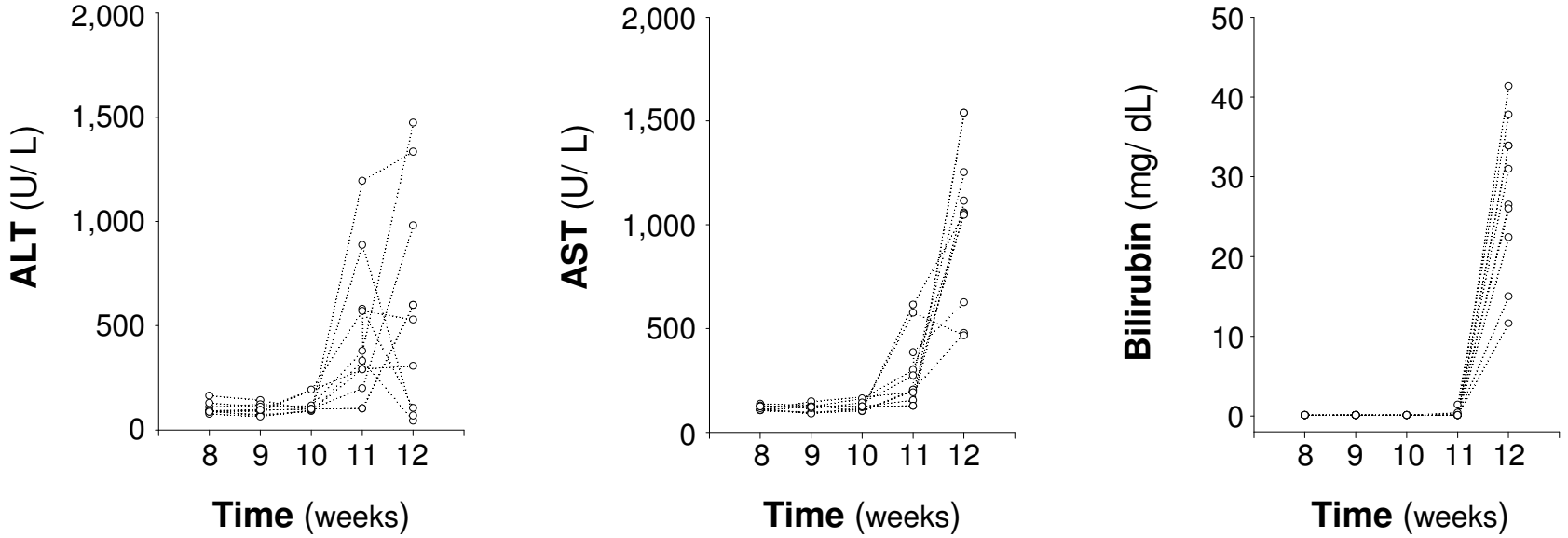
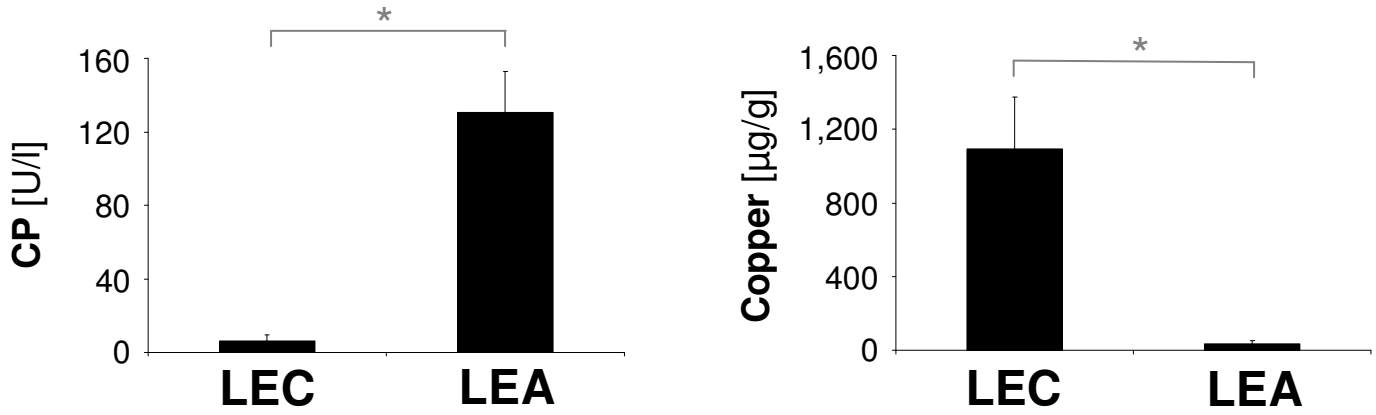


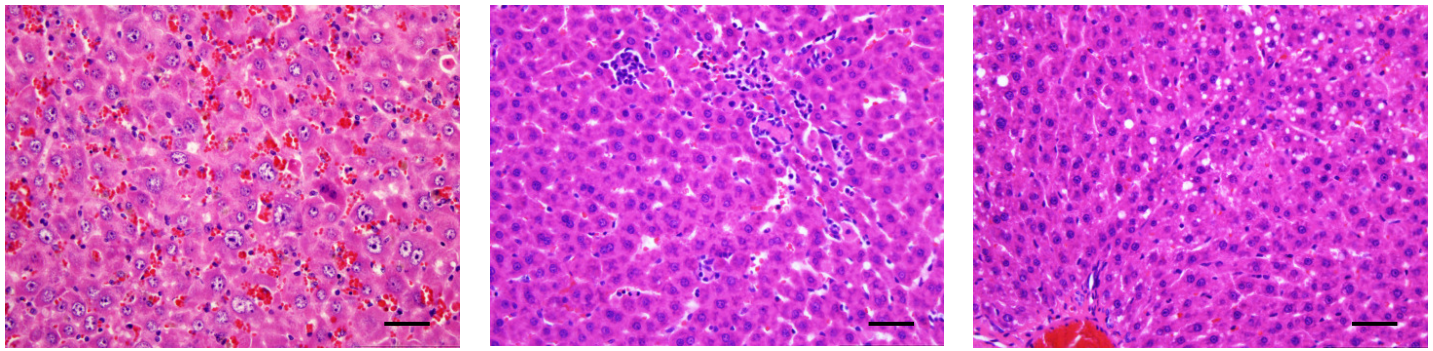
Supplementary figure S1A

Levels of ALT, AST and bilirubin of group LEC_{FH}. LEC rats received high copper diet until fulminant hepatitis (week 12). Lines indicate same animal (n=10). Note, LEC rats housed on low copper diet (LEC_L) and LEA rats housed on high copper diet showed normal levels of hepatitis-associated serum markers (data not shown).



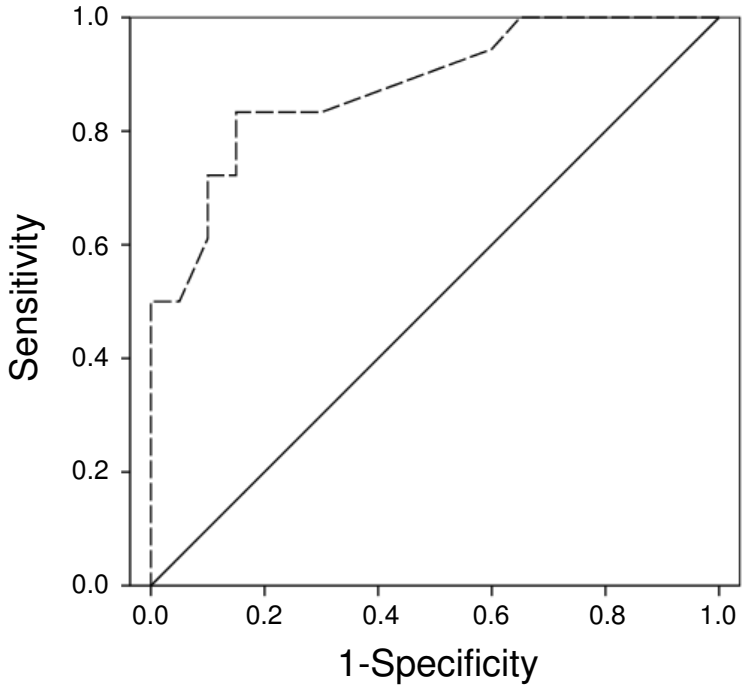
Supplementary figure S1B

Ceruloplasmin oxidase activity (left) and liver copper content (right) was determined. Samples from LEC rats were obtained at fulminant hepatitis. LEA rats served as a control. 10 animals were analyzed per group. Asterisks indicate significance ($p<0.05$).



Supplementary figure S1C

One representative hematoxylin and eosin stain of liver for each group is shown. Animals were sacrificed when rats encountered fulminant hepatitis (LEC_{FH}) after high copper diet or after sacrifice (LEC_{L} and LEA). Liver histology of LEC rats housed on low copper diet (LEC_{L}) and of LEA rats housed on high copper diet were normal. Bar = 50 mm.



Supplementary figure S2

Receiver operating characteristic (ROC) curve of serum miR-122 (dashed line). LEC rats (n=18) were housed on high copper diet and analyzed at week 10. The solid line corresponds to the reference line.

Supplementary table S1. Serum markers after cell therapy of LEC rat

LEC		miR-122 (factor)	ALT (U/ L)	AST (U/ L)	Bilirubin (mg/ dL)
sham	Week 8	0.4 ± 0	115.8 ± 13	128.4 ± 4	0.1 ± 0
	Week 10	2.5 ± 1	137.0 ± 40	145.0 ± 17	0.1 ± 0
	Week 12	54.3 ± 20	967.0 ± 272	1373.2 ± 162	28.3 ± 5
	Week 15	ND*	ND*	ND*	ND*
	Week 42	ND*	ND*	ND*	ND*
Tx	Week 8	0.2 ± 0	91.6 ± 8	118.6 ± 13	0.1 ± 0
	Week 10	2.8 ± 2	144.6 ± 60	160.0 ± 25	0.1 ± 0
	Week 12	32.4 ± 22	309.8 ± 43	278.2 ± 44	0.1 ± 0
	Week 15	5.9 ± 3	240.4 ± 72	305.6 ± 105	0.3 ± 0
	Week 42	1.3 ± 1	102.8 ± 5	132.4 ± 10	0.1 ± 0

Mean ± SE of sham (sham) and hepatocyte (Tx) transplanted rats (n=5). Transplantation started at week 10.

ND, not determined. *Animals of sham group died