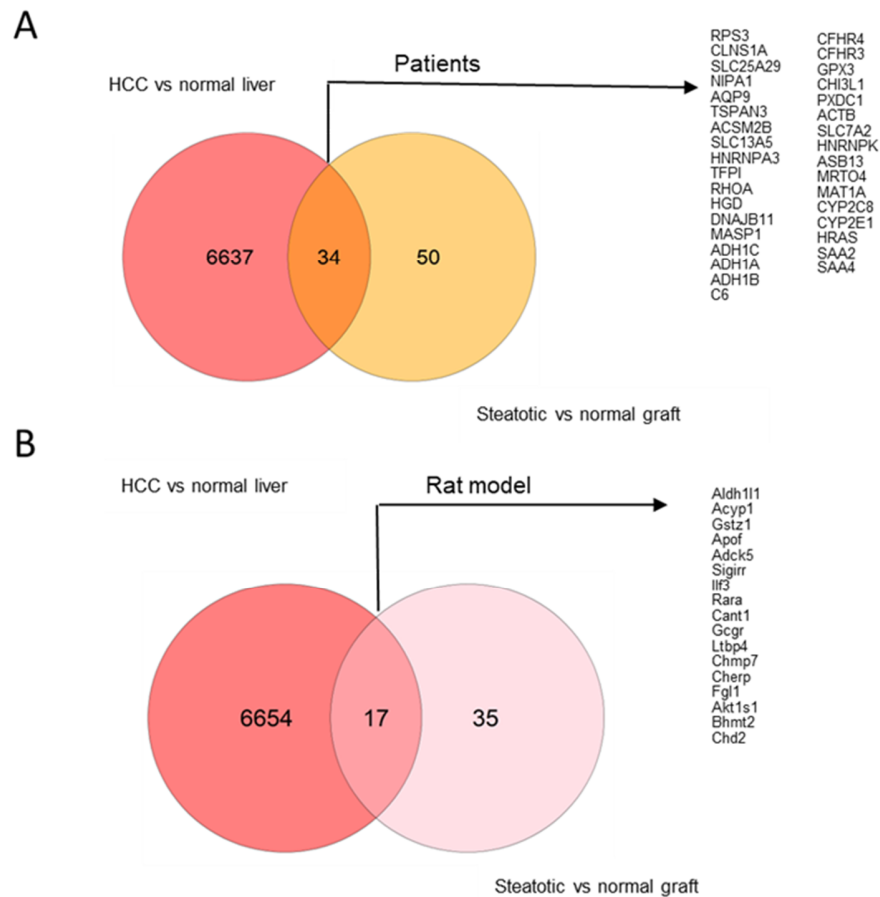
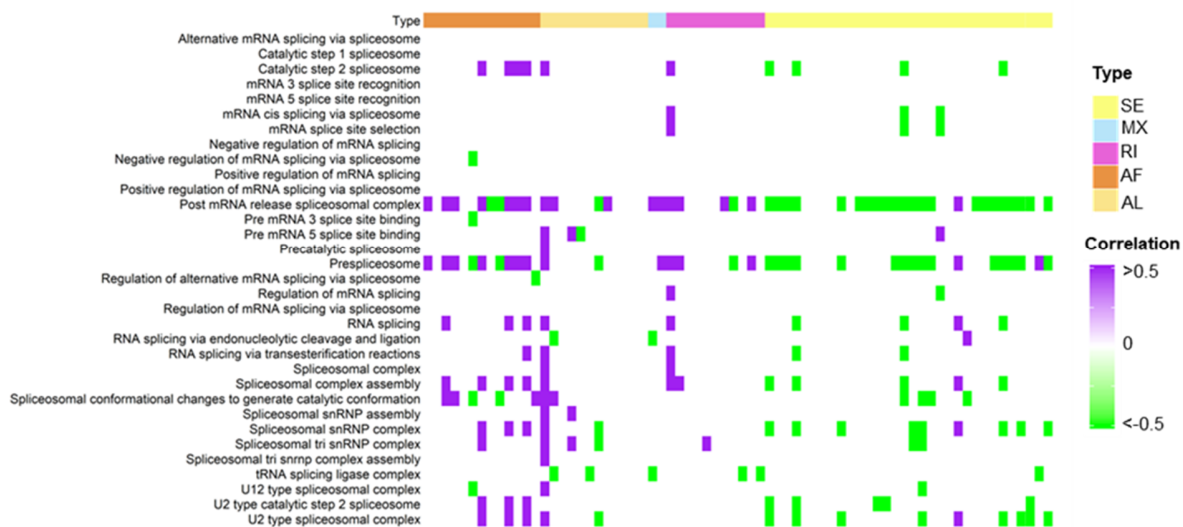


## Supplementary figures

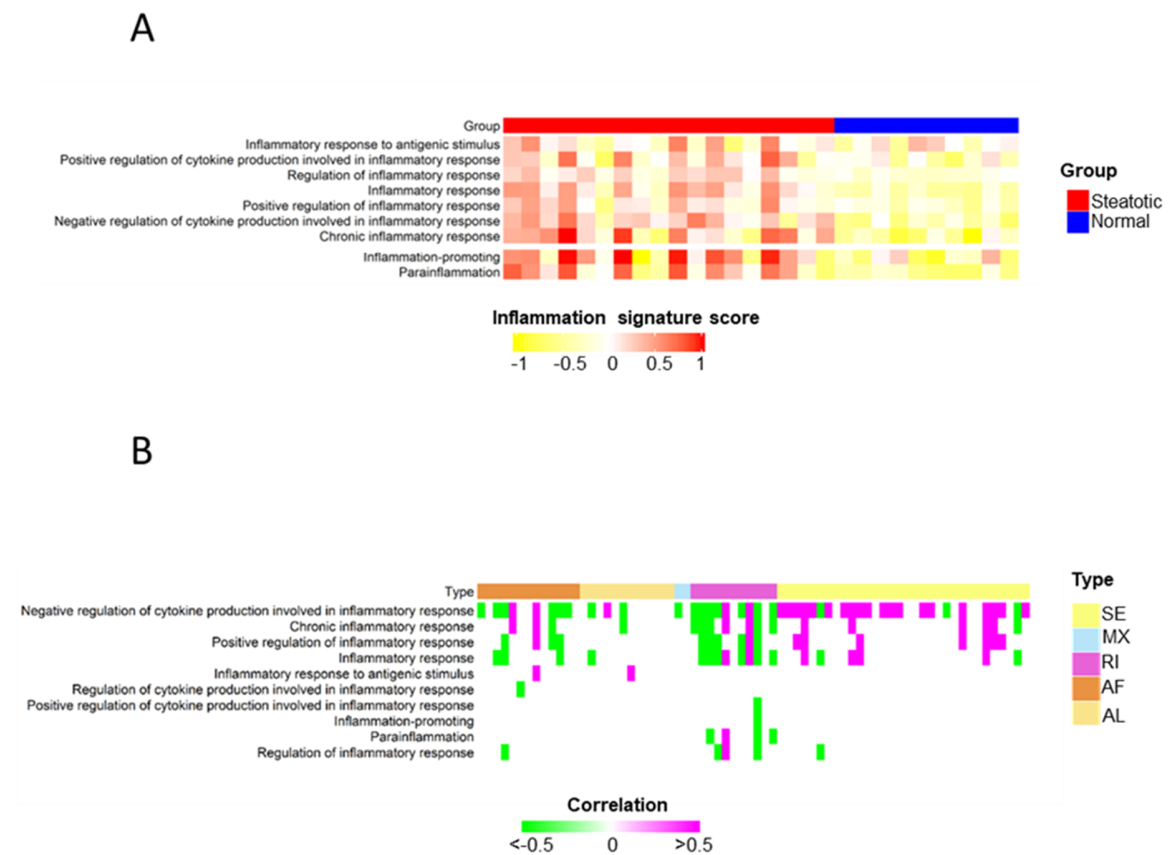


**Figure S1. The overlapped genes involved differential ASEs of steatotic liver graft and HCC.**

**A** Thirty four genes in human were coincided in genes involved differential ASEs between HCC vs normal liver and steatotic vs normal liver graft. **B** Seventeen genes in rat model were found to be overlapped in genes involved differential ASEs between HCC vs normal liver and steatotic vs normal liver graft. ASEs, alternative splicing events.



**Figure S2. The differential AEs were associated splicing factors.** The association analysis of splicing factors and differential AEs. AEs, alternative splicing events.



**Figure S3. The severer inflammation in steatotic grafts were affected by differential ASEs.**

**A** The genes of inflammation signature were enriched in human steatotic liver grafts. **B** The inflammation signature was affected differential ASEs. ASEs, alternative splicing events.

## Supplementary table

**Table S1.** Characteristics of the patients post liver transplantation using normal or steatotic graft

	<b>Normal graft (N=10)</b>	<b>Steatotic graft (N=18)</b>
<b>Age (year)</b>	53.8	54.9
<b>Gender (Male)</b>	90%	94.4%
<b>Body weight (kg)</b>	68.8	69.4
<b>Alcoholic (Yes)</b>	0	0
<b>Hepatitis B positive</b>	90%	83.3%
<b>Hepatitis C positive</b>	10%	11.1%
<b>HCC</b>	100%	94.4%
<b>Fatty change</b>		
No (0%)	100%	0
Mild (<10%)	0	55.56%
Moderate (10-30%)	0	22.22%
Severe (>30%)	0	22.22%
<b>Cirrhosis</b>	90%	88.9%
<b>Living donor</b>	100%	83.3%
<b>Child-pugh score</b>	7	7.33
<b>Milan criteria (within criteria)</b>	70%	61.1%
<b>UCSF criteria (within criteria)</b>	70%	77.78%
<b>Graft weight (gm)</b>	600	1126
<b>Graft weight to Recipient ESLV (%)</b>	48.6	90.7
<b>Cold ischemia time (min)</b>	107	326
<b>SGOT</b>	514.9	830.6
<b>SGPT</b>	455.2	441.4
<b>Total bilirubin</b>	66.3	68.3

ESLV: Estimated Standard Liver Volume