



Article

Supplementary Material: Cancer-Associated Fibroblast-Derived IL-6 Determines Unfavorable Prognosis in Cholangiocarcinoma by Affecting Autophagy-Associated Chemoresponse

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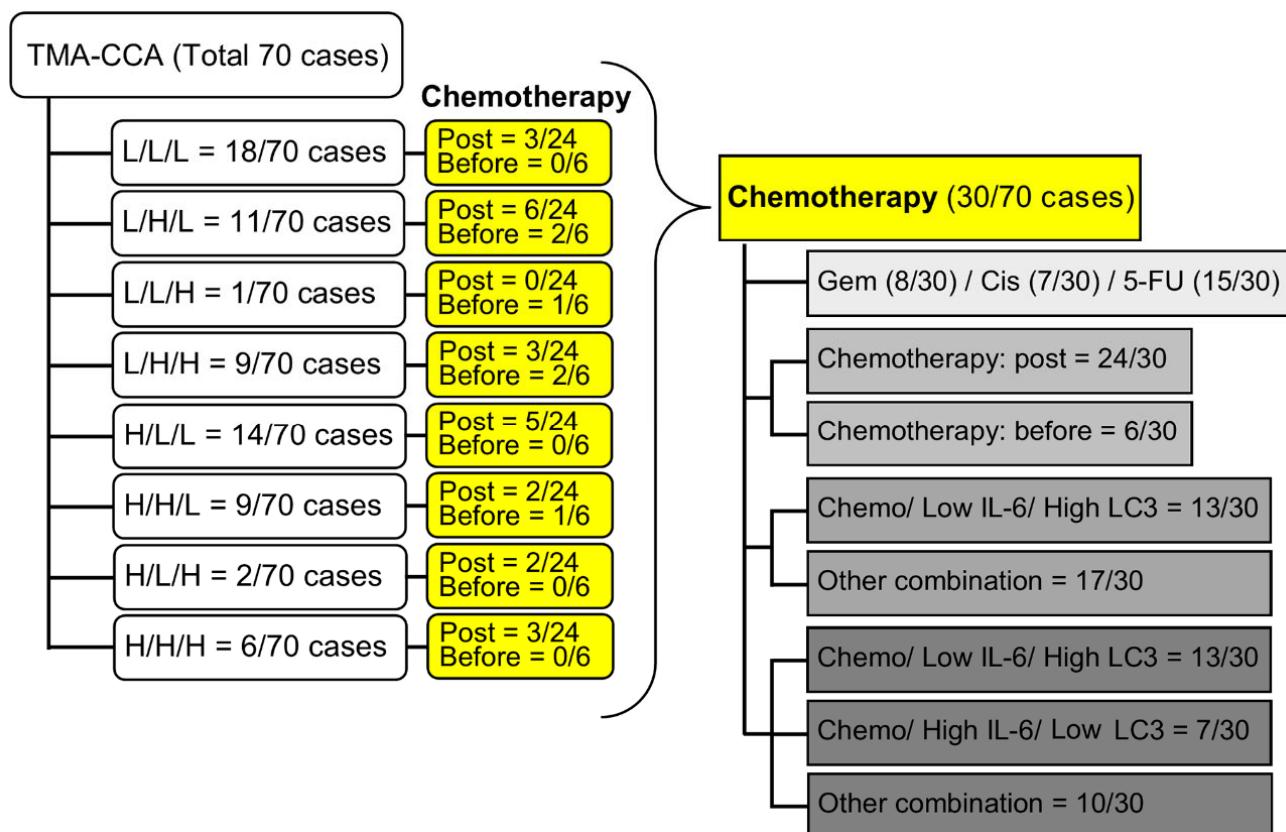


Figure S1. The flowchart of the cohort of patients included in the study with the level of expression of IL-6, LC3, and p62, and the chemotherapeutic treatment.

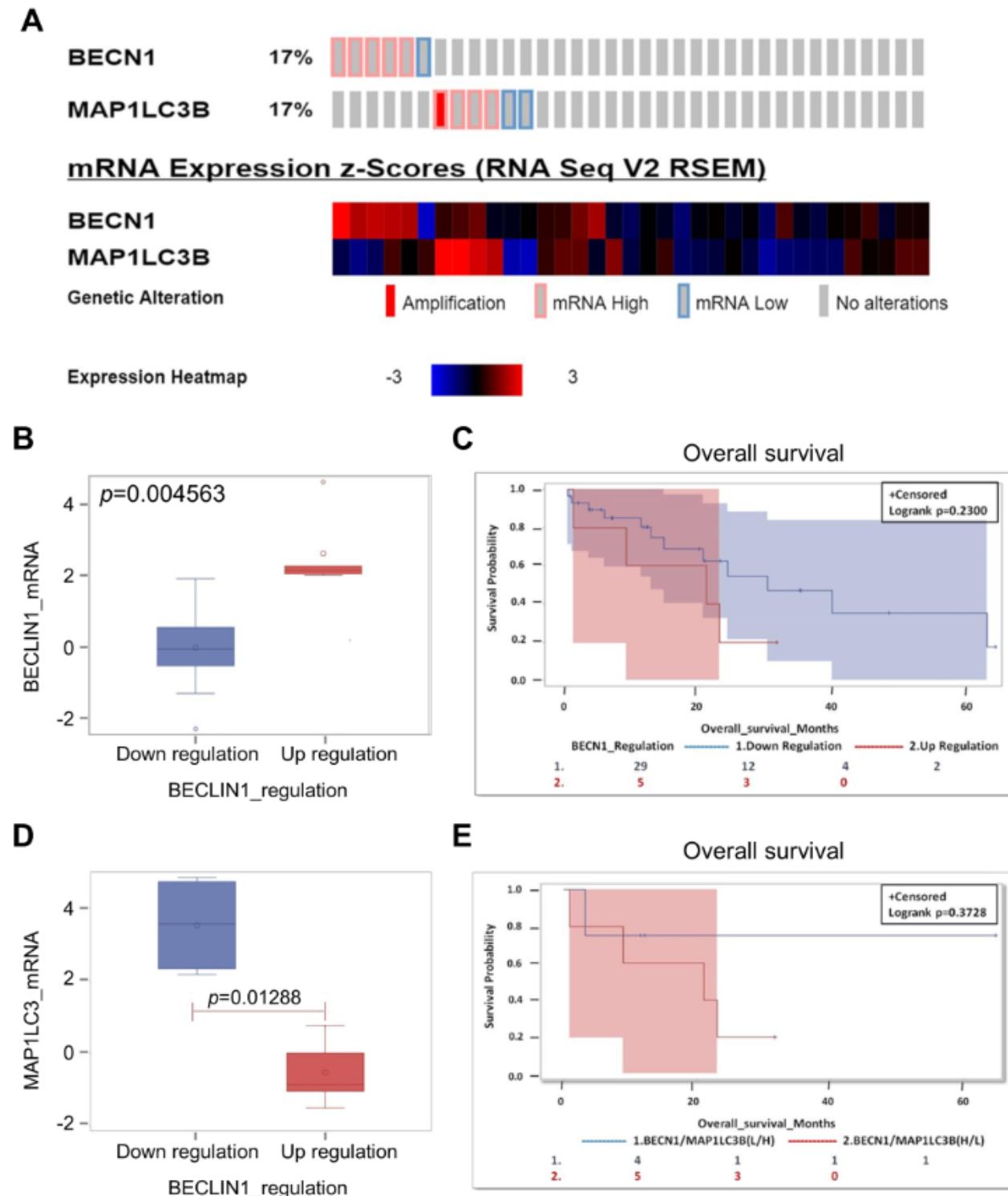


Figure S2. TCGA database analysis of 34 CCA tissues and corresponding clinical data

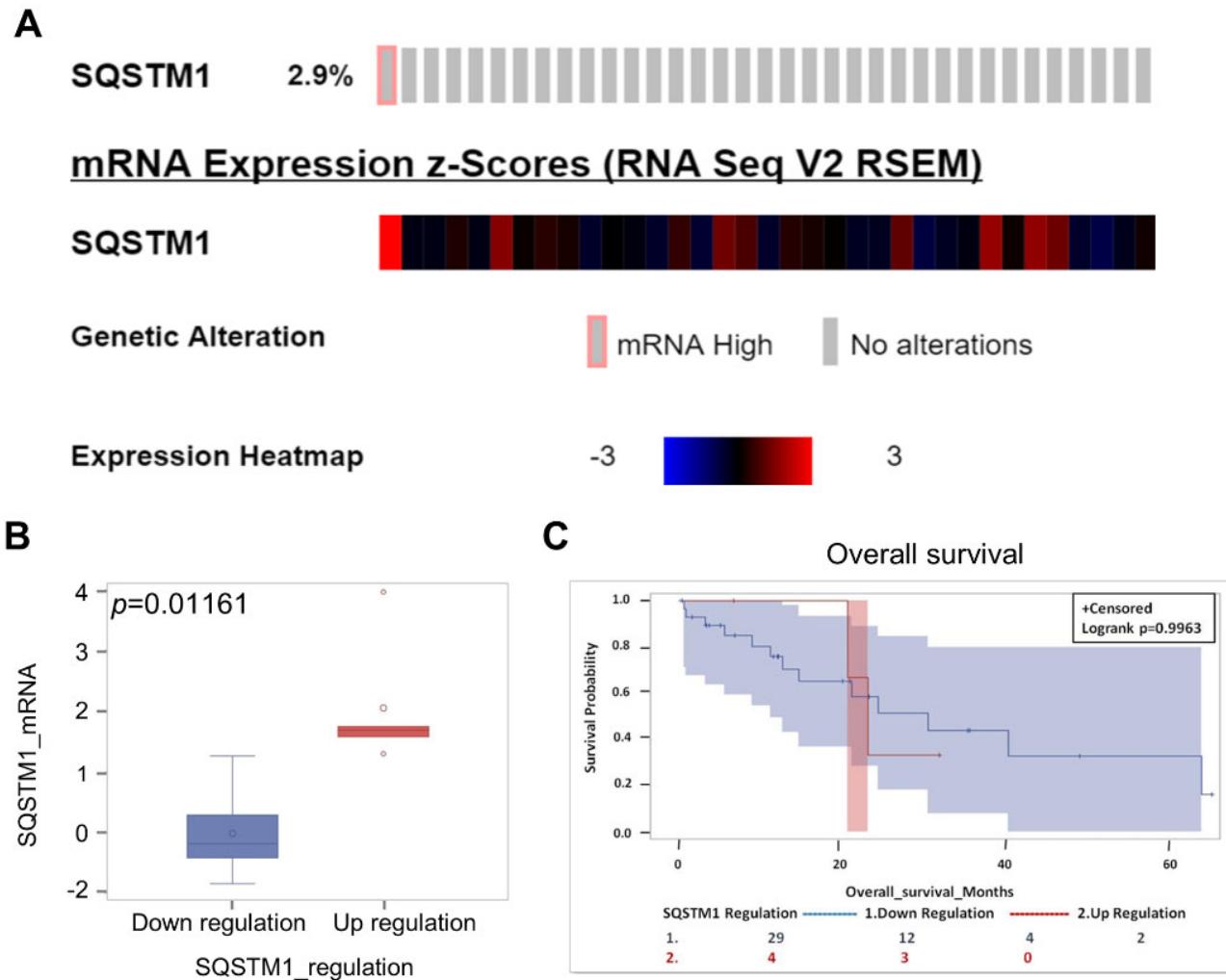


Figure S3. The oncoprint showing the alterations in p62/SQSTM1 gene expression in 34 CCAs from the TCGA database

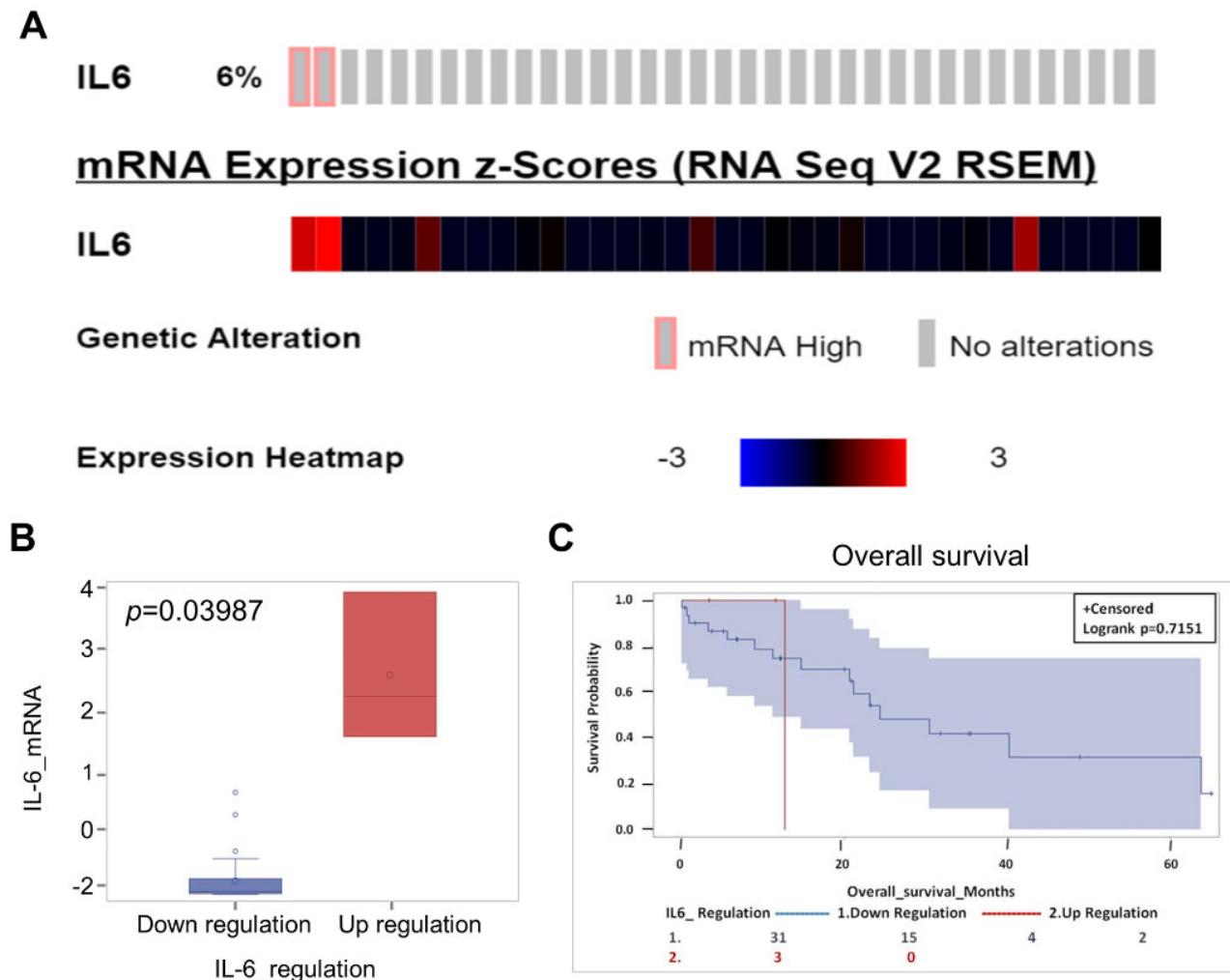


Figure S4. The oncoprint showing the alterations in IL-6 gene expression in 34 CCAs from the TCGA database

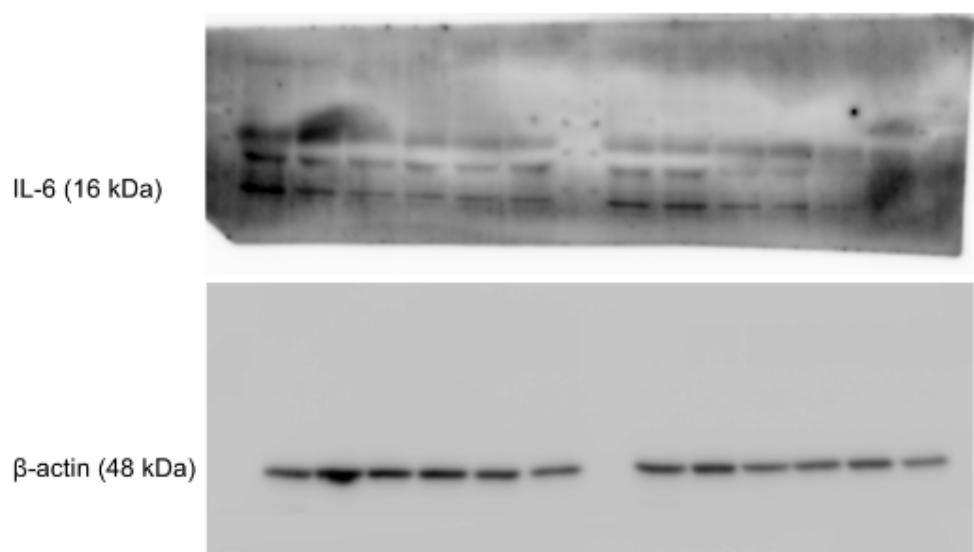


Figure S5. The whole Western blot for Figure 6

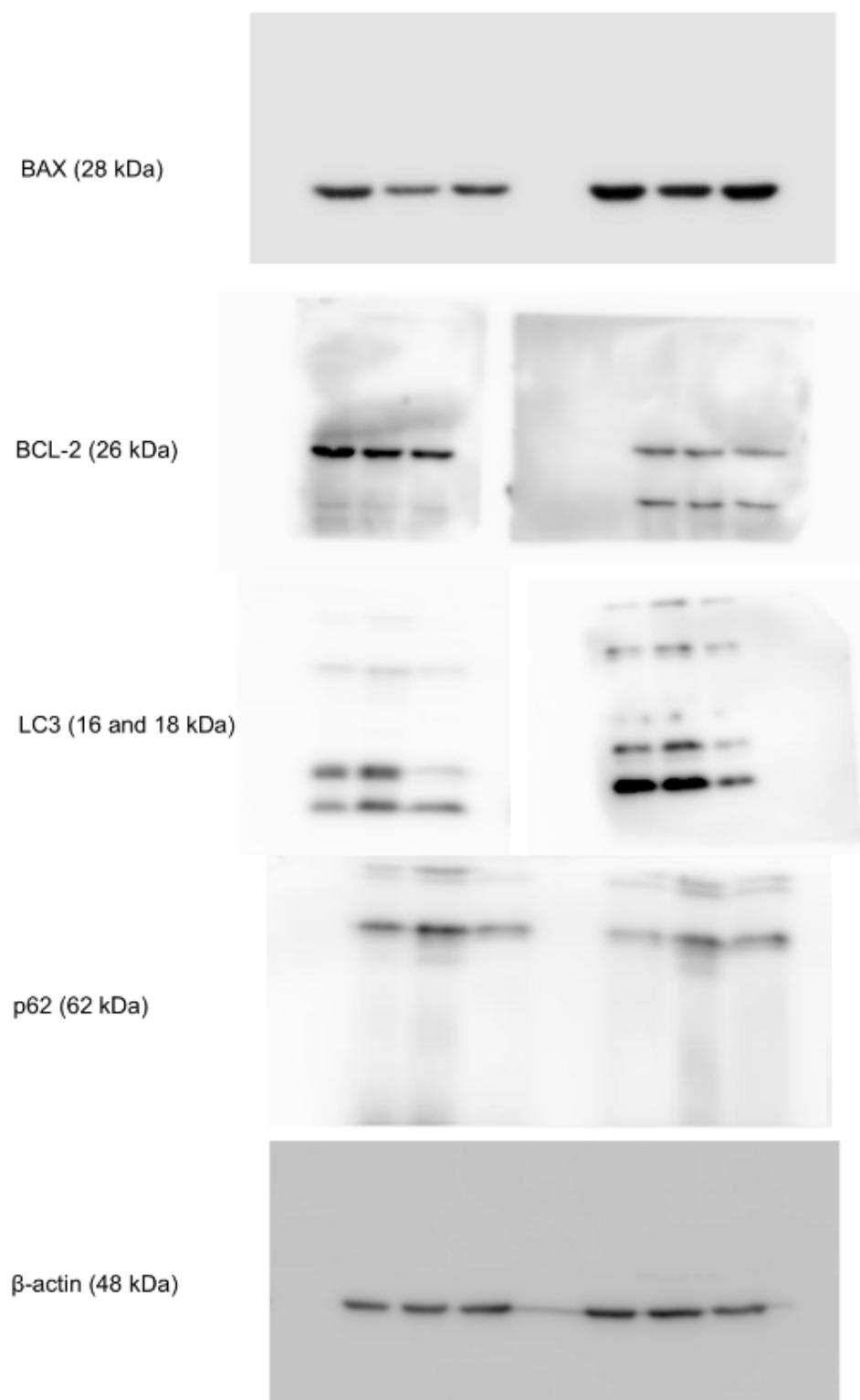


Figure S6. The whole Western blot for Figure 8

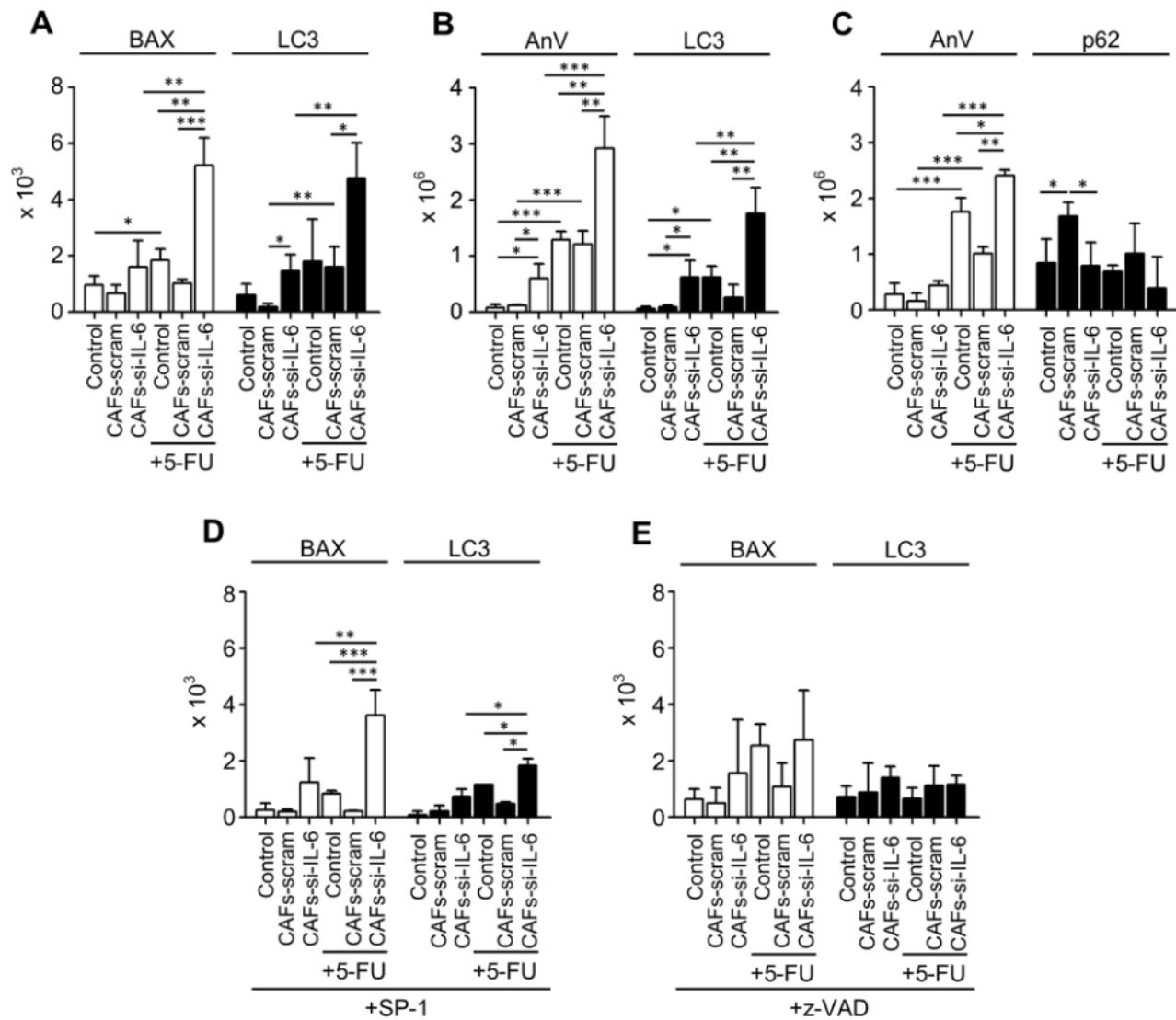


Figure S7. ImageJ quantification of the immunofluorescence staining shown in Figure 8.

Table S1. Patient's clinical characteristics of TCGA Cholangiocarcinoma database.

Table S2. The quantification of western blot in Figure 8A.

Condition		LC3-II/LC3-I ratio	LC3-II/LC3-I ratio
media	LC3-I	7735.418	7989.452
	LC3-II	4149.569	0.536438
scram-CAFs	LC3-I	8792.1	7931.221
	LC3-II	4291.334	0.48809
si-IL-6-CAFs	LC3-I	1837.962	1906.541
	LC3-II	4005.196	2.179151
5FU	media	2945.376	3152.598
	LC3-II	7228.317	2.454124
5FU	scram-CAFs	3703.841	3235.184
	LC3-II	6168.51	1.665436
5FU	si-IL-6-CAFs	1943.326	6727.004
	LC3-II	6012.711	3.094031
			1.589629

Table S3. The significantly log-rank p-value of interest.

Figure	correlation	p-value
Figure 1B	IL-6 in cancer	0.886
	IL-6 in CAFs	0.024*
	IL-6 in cancer and CAFs	0.953
Figure 2B	LC3 in cancer	0.001***
Figure 2C	p62 in cancer	0.205
Figure 2D	Autophagy (LC3 and p62) in / cancer	0.001***
	-/- (blue line)	0.160
	-/+ (black line)	0.907
	+/- (green line)	0.010*
	+/+ (violet line)	0.544
Figure 3	IL-6 in CAFs and autophagy (LC3 p62) in cancer	0.007
	L/L/L (blue line)	0.047*
	L/H/L (green line)	0.002**
	L/L/H (light brown line)	0.224
	L/H/V (violet line)	0.159
	H/L/L (yellow line)	0.370
	H/H/L (red line)	0.176
	H/L/H (light blue line)	0.937
	H/H/H (gray line)	0.879
	Chemotherapy/IL-6/autophagy (LC3/p62)	0.001***
Figure 4A	No/others (blue line)	0.130
	Yes/others (green line)	0.054
	No/low/high/low (yellow line)	0.551
	Yes/low/high/low (violet line)	0.01**
Figure 4B	Chemotherapy/IL-6/LC3	0.001***
	Others (blue line)	0.370
	Chemo/low IL-6/High LC3 (green line)	0.001**
Figure 4C	Chemotherapy/IL-6/LC3	0.018*
	Others (blue line)	0.551
	Chemo/low IL-6/high LC3 (green line)	0.001**
	Chemo/high IL-6/low LC3 (yellow line)	0.130