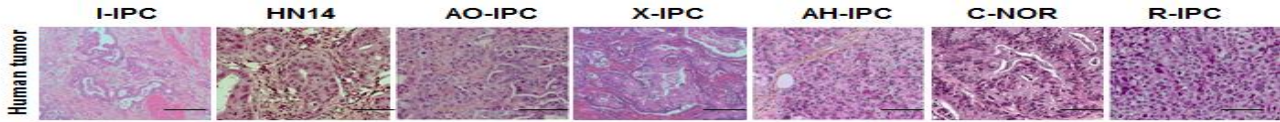
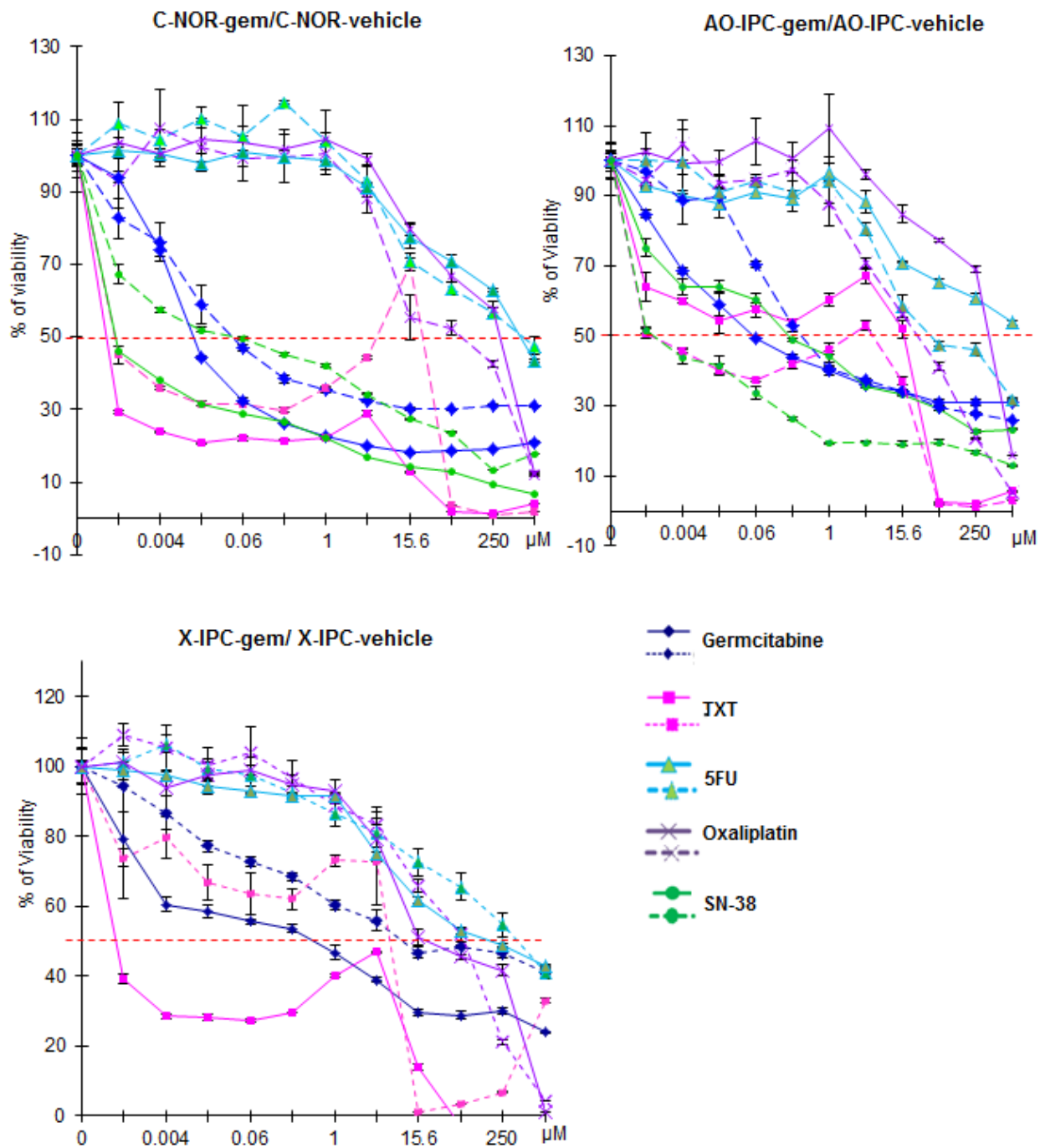


# Deciphering the cellular source of tumor relapse identifies CD44 as a major therapeutic target in pancreatic adenocarcinoma

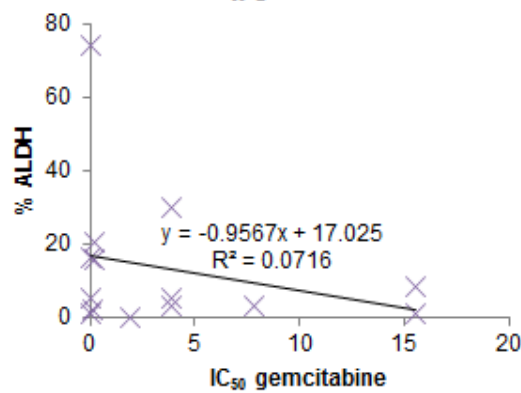
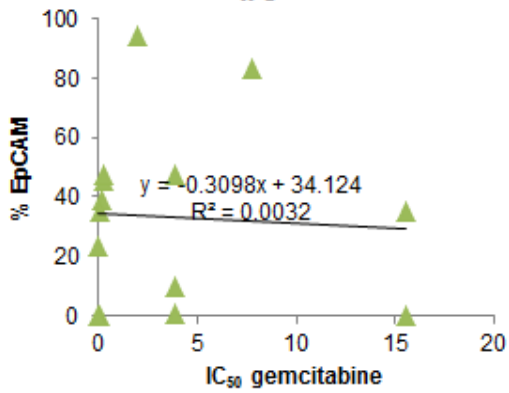
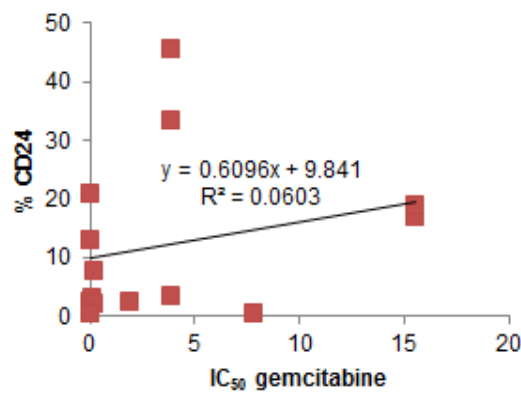
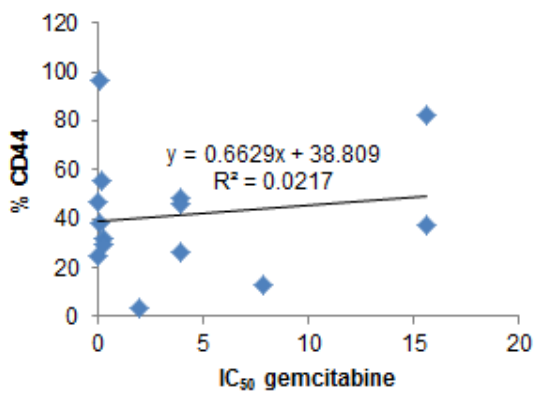
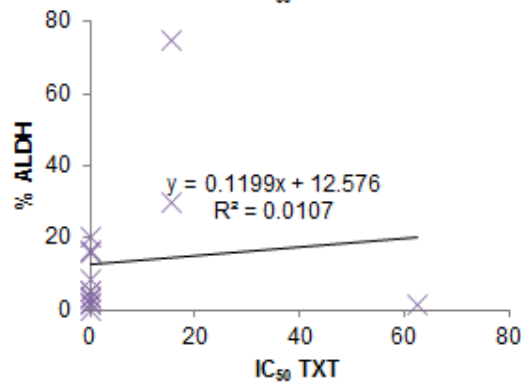
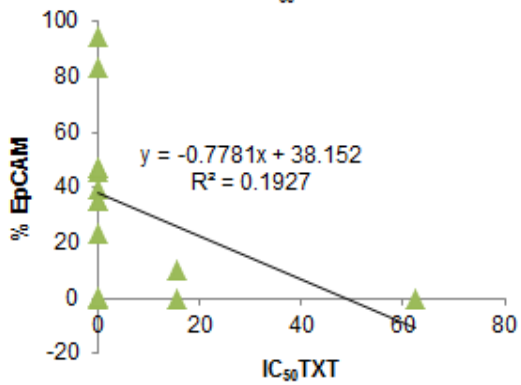
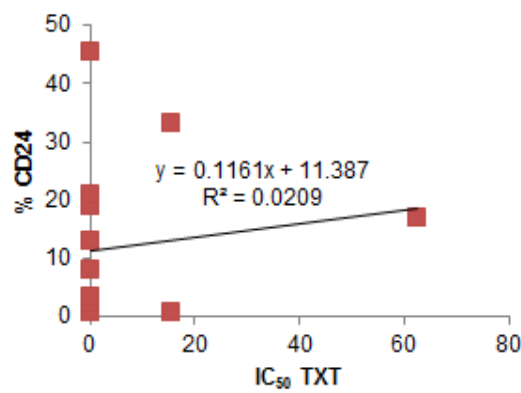
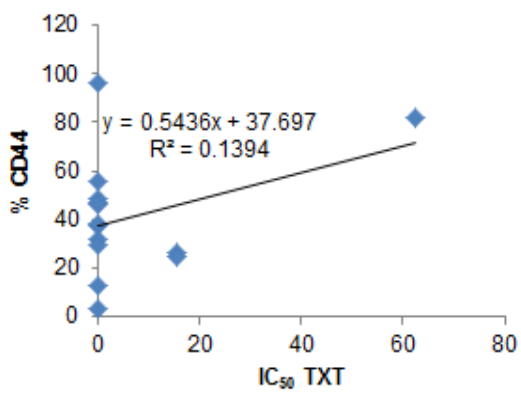
## Supplementary Material

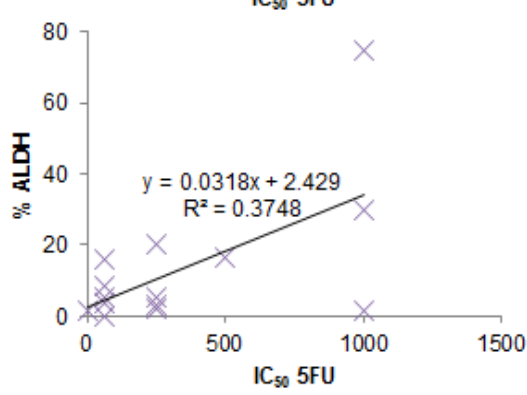
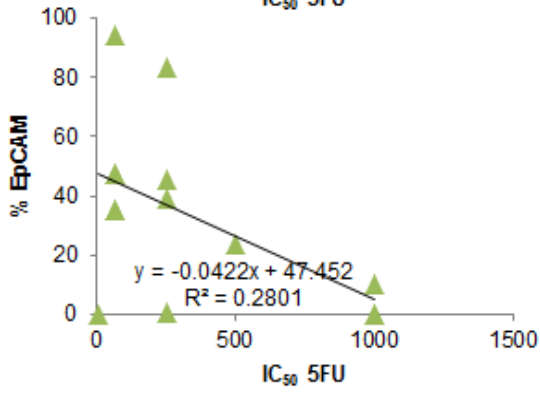
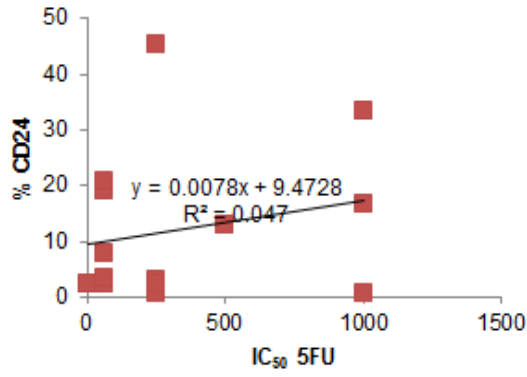
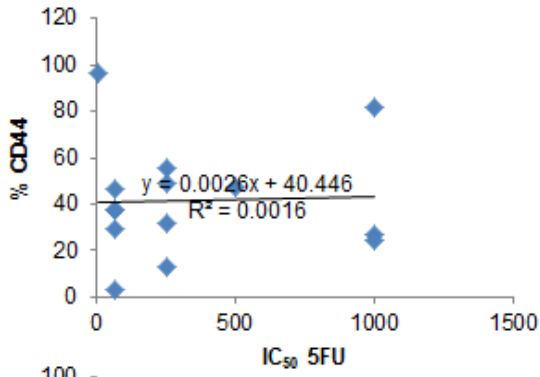
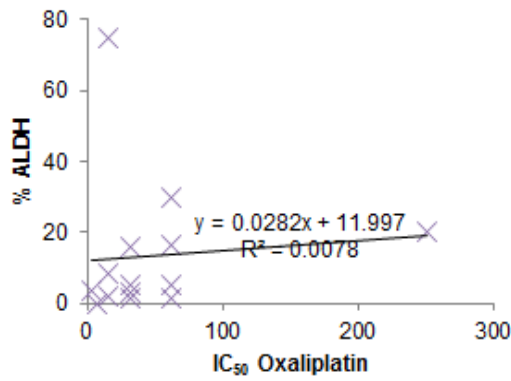
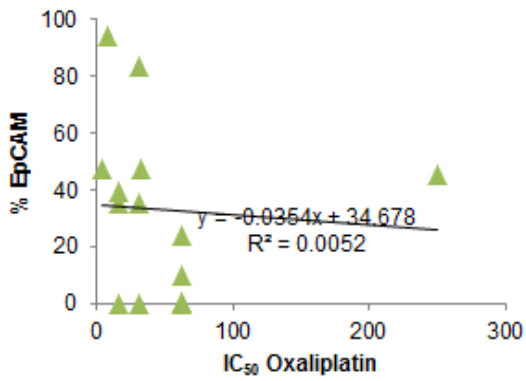
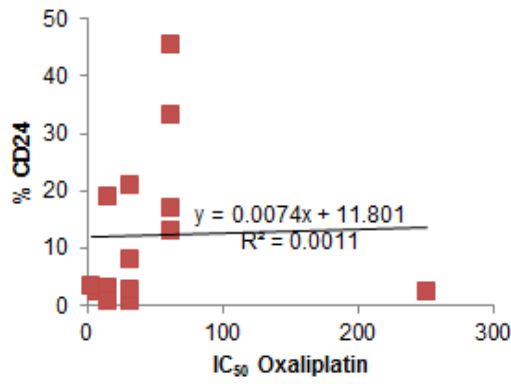
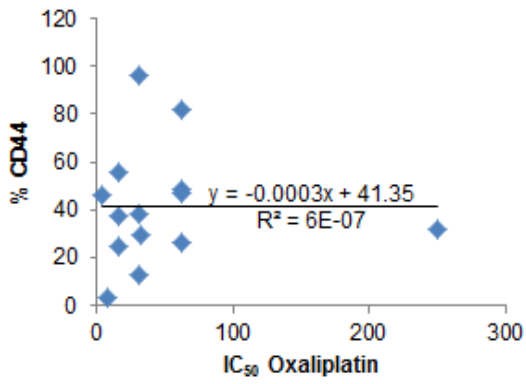


**Figure S1:** Examples of H&E staining of the PDACs obtained from human tumors. Scale bar: 100  $\mu$ m.

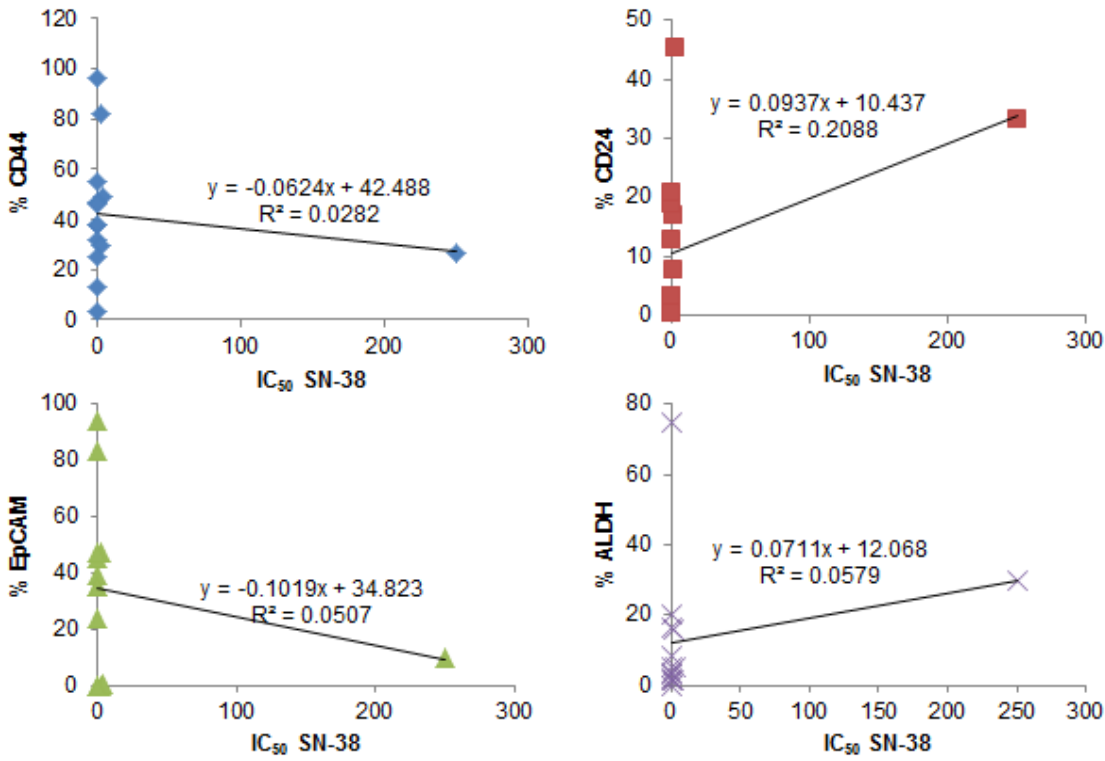


**Figure S2:** Representative curves for the chemogram analysis performed on xenograft-derived cells. The continuous line indicates vehicle-treated xenografts, and the discontinuous line shows curves for the gemcitabine-treated xenografts.

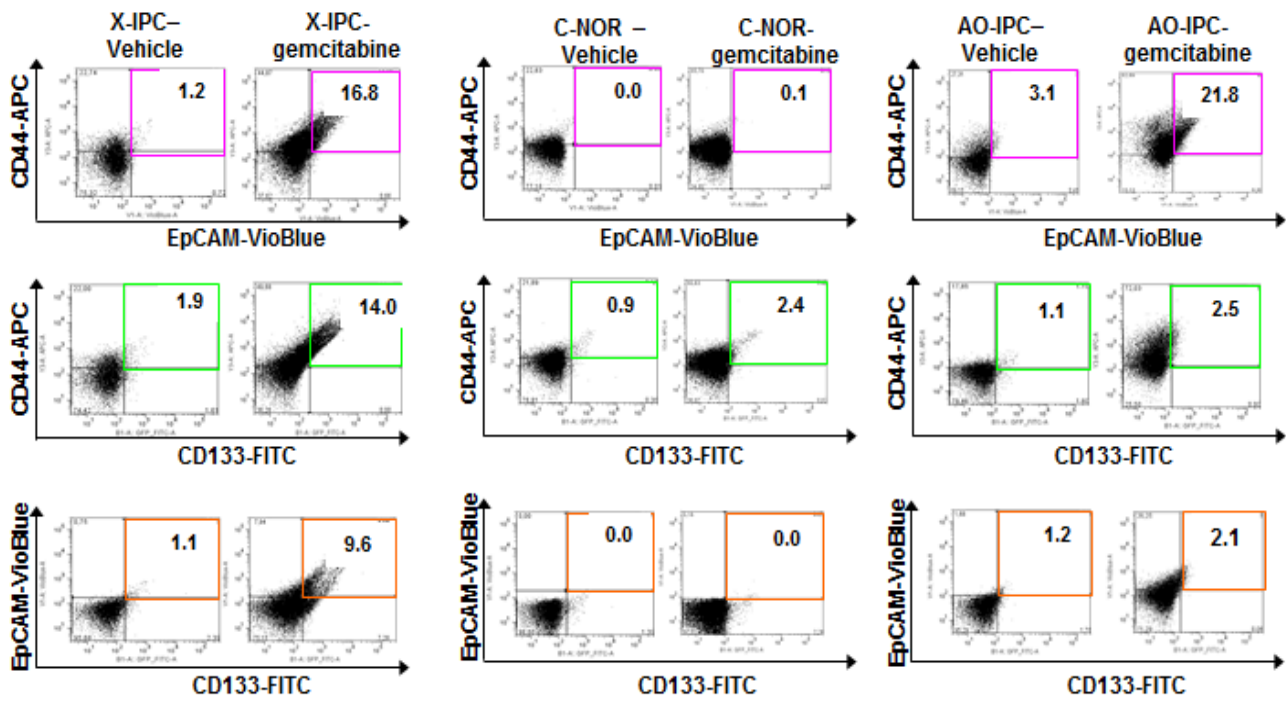
**A****B**

**C****D**

**F**



**Figure S3:** Linear regression of the mean values corresponding to CSC-marker expression against the  $IC_{50}$  of the anticancer drugs (A-E) for each cell line.



**Figure S4:** Flow cytometry of CD44-APC, EpCAM-VioBlue and CD133-FITC was used to analyze double positive cells. Representative plots are shown for each tumor.

**Table S1:** List of antibodies utilized for IF and Western Blotting.

Antibody	Source	Dilution	Manufacturer	Technique
CD44-FITC	Goat	1/400	Biologendes	IF
CD133-FITC	Mouse	1/200	Merck Milipore	IF
EpCAM-FITC	Goat	1/400	Biologendes	IF
CD44-APC	Mouse	1/50	Miltenyi Biotec	FC
CD24-PE	Mouse	1/50	Miltenyi Biotec	FC
EpCAM-VioBlue	Mouse	1/50	Miltenyi Biotec	FC
ALDH-FITC	Mouse	1/50	Stem Cell Technologies	FC
$\beta$ -Tubulin	Mouse	1/1000	Invitrogen	WB
ZEB1	Rabbit	1/400	Santa Cruz	WB and IFI
MUC1	Mouse	1/500	Sigma	WB
MUC1	Rabbit	1/200	ABCAM	IFI

APC, allophycocyanin; FITC, fluorescence isothiocyanate; PE, phycoerythrin; IF, immunofluorescence; IFI, indirect immunofluorescence; WB, western blot; FC, flow cytometry

**Table S2:** The chief clinical characteristics of the patients studied and the principal biological information available for these tumors.

Tumor Name	Origin	Diagnosis	State/Differentiation	Tumor Size	Treatment in humans	Recurrence	Passage in Mice
R-IPC	Biopsie	Metastasis	Moderately	T4	Folfinirox + RDT	NA	6
I-IPC	Surgery	ADK	Moderately	T3	Gemcitabine	Yes	5
AO-IPC	Surgery	ADK	Moderately	T3	Gemcitabine	Yes	5
AH-IPC	Surgery	ADK	Moderately	T3	Gemcitabine	Yes	6
X-IPC	Surgery	ADK	Poorly	T4	Gemcitabine	Yes	5
C-NOR	Surgery	ADK	Well	T3	Gemcitabine	Yes	5
HN14	Biopsie	ADK	Moderately	T4	Folfinirox	Yes	5



**Table S3:** Expression of CD44-APC, CD24-PE, EpCAM-VioBlue and ALDH-FITC markers in 14 different primary cell lines. Error bars  $\pm$  SEM; n=3 per group.

	CD44		CD24		EpCAM		ALDH	
	Mean	SEM	Mean	SEM	Mean	SEM	Mean	SEM
<b>Foie-8b</b>	46.1	0.9	3.3	0.2	47.2	0.5	3.4	0.1
<b>01.030</b>	24.8	1.1	0.5	0.3	0	0	74.5	1.2
<b>HN-01</b>	47	0.8	12.9	0.7	23.5	0.3	16.4	0.3
<b>E-NOR</b>	29.1	3	7.8	0.6	47.2	1.6	15.7	0.9
<b>AH-IPC</b>	31.8	1.2	2.2	0.7	45.4	0.8	20.4	0.3
<b>AD-IPC</b>	48.6	1.5	45.3	0.5	0.6	0.5	5.3	0.6
<b>L-IPC</b>	96.2	1.2	2.5	0.6	0	1.7	1.2	0.31
<b>J-IPC</b>	37.9	1.55	20.8	0.9	35.4	0.78	5.4	0.42
<b>D-IPC</b>	26.6	1.2	33.3	0.7	10	0.8	30	3.5
<b>B-TIM</b>	55.3	2.5	3.1	0.4	39.3	1.4	2.1	0.1
<b>A-NOR</b>	3.2	0.5	2.4	0.4	94.2	2.5	0	0
<b>HN-03</b>	37.4	1.5	18.9	0.8	35	1	8.5	0.5
<b>H-NOR</b>	12.8	1.7	0.5	0.4	83.4	1.5	3.2	0.2
<b>01.001</b>	81.9	3.5	16.8	2.3	0	0.2	1.2	0.3