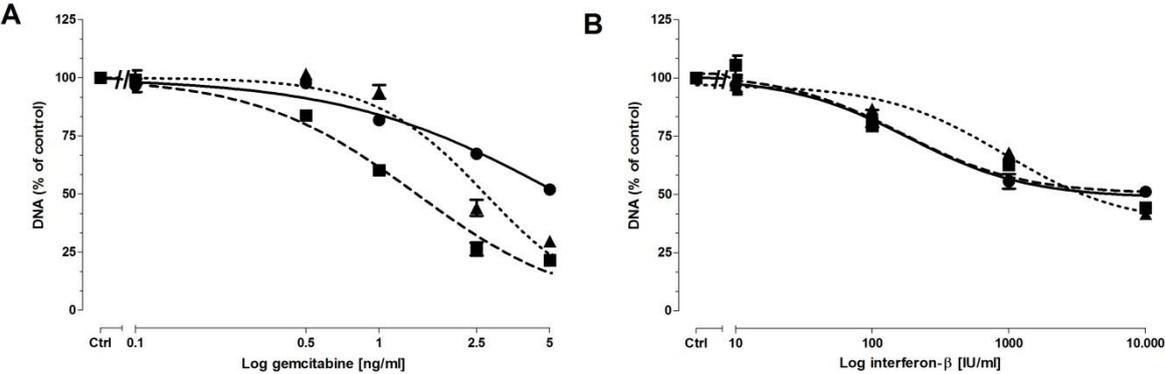
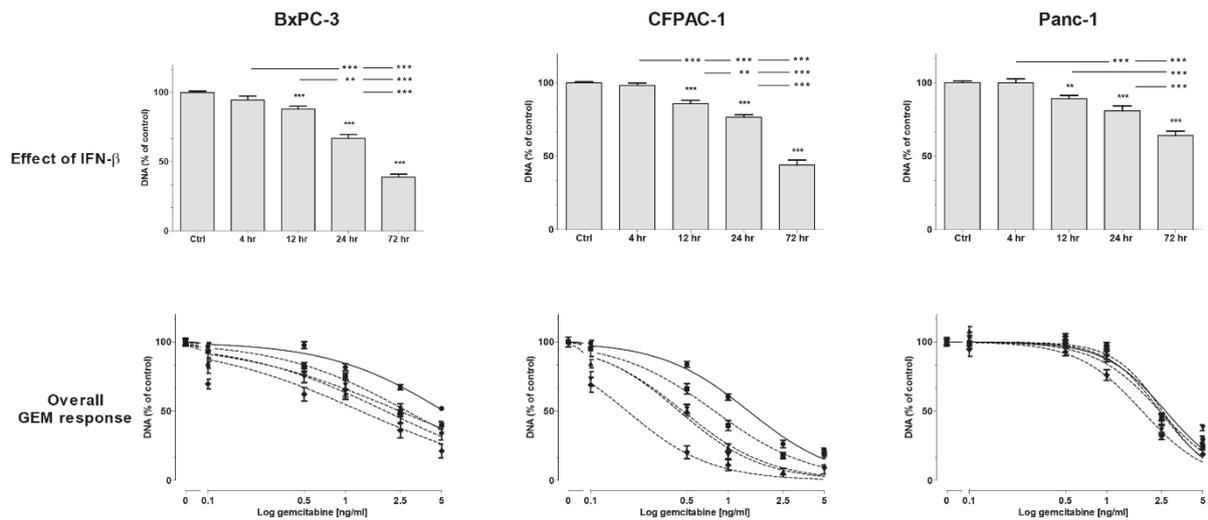


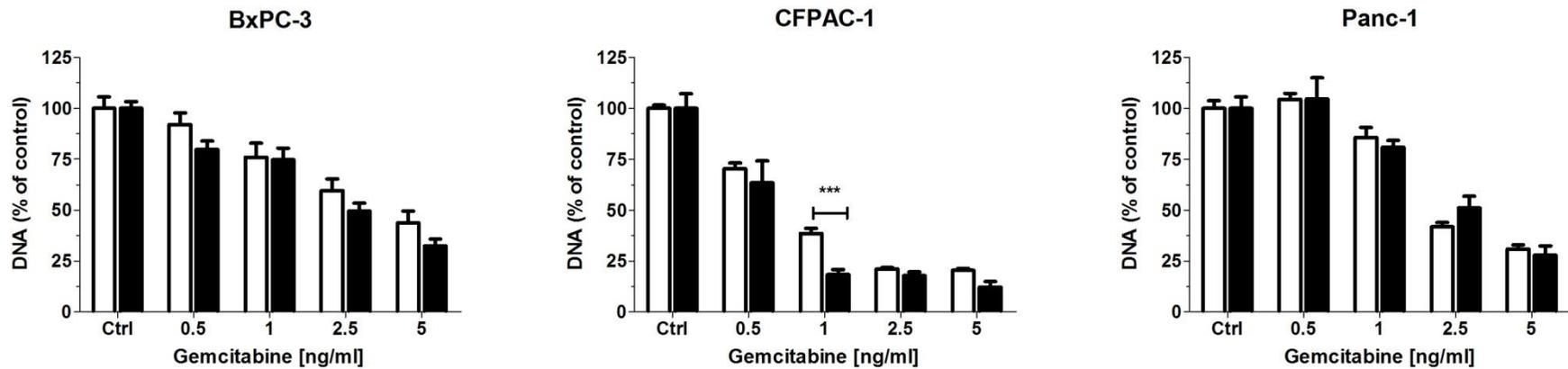
Supplementary Figures



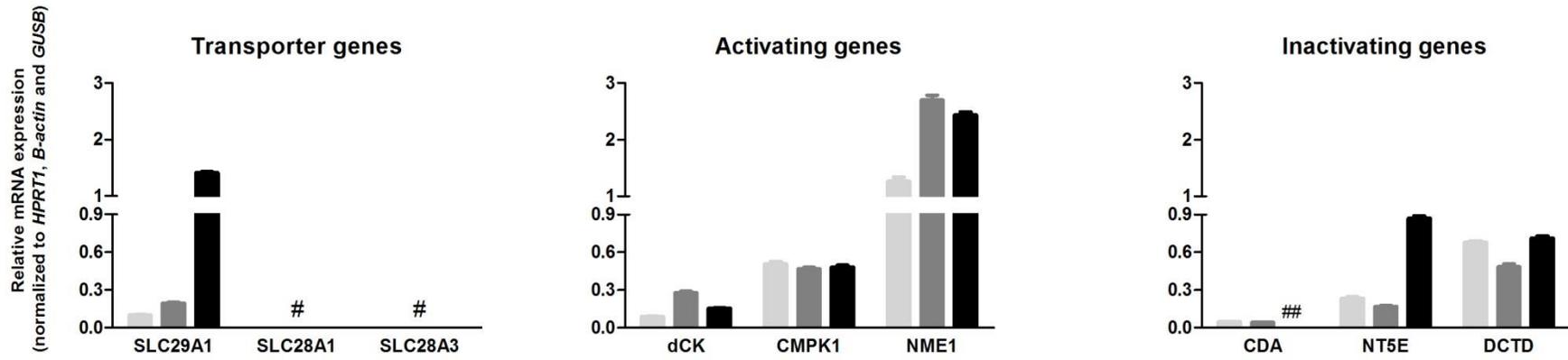
Supplementary Figure 1. Dose response curves of gemcitabine (A) and interferon-beta (B) on total DNA amount, as a measure of cell number, in ● BxPC-3, ■ CFPAC-1, and ▲ Panc-1 after 3 days of treatment. Values represent mean ± SEM of at least two independent experiments in quadruplicate and are shown as the percentage of control.



Supplementary Figure 2. Effect of interferon-beta (IFN- β) pre-treatment on gemcitabine response in BxPC-3 (left panel), CFPAC-1 (middle panel), and Panc-1 (right panel). Upper panel represents the anti-proliferative effect of 4, 12, 24, and 72 hr IFN- β monotherapy. Lower panel represents overall gemcitabine response in untreated control cells (solid line; ●) versus IFN- β pre-treated cells (dotted lines; ■ 4 hr, ▲ 12 hr, ▼ 24 hr, and ◆ 72 hr). Data are presented as percentage of vehicle treated control. For IFN- β pre-treated cells, effect of IFN- β was set at 100% and used as control. Used concentrations IFN- β : 100 IU/ml for BxPC-3 and CFPAC-1, and 1000 IU/ml for Panc-1. Values represent mean \pm SEM of at least two independent experiments in quadruplicate and are shown as a percentage of control. ** p <0.01 and *** p <0.001 versus control.



Supplementary Figure 3. Effect of interferon-β (IFN-β) on gemcitabine response in BxPC-3 (left panel), CFPAC-1 (middle panel), and Panc-1 (right panel). Cells were treated for 3 days with gemcitabine monotherapy (white bars) or with simultaneously IFN-β plus gemcitabine (black bars). Data are presented as percentage of vehicle treated control. For IFN-β treated cells, effect of IFN-β was set at 100% and used as control. Used concentrations IFN-β: 100 IU/ml for BxPC-3 and CFPAC-1, and 1000 IU/ml for Panc-1. Values represent mean ± SEM of at least two independent experiments in quadruplicate and are shown as a percentage of control. ***p<0.001 versus control.



Supplementary Figure 4. Baseline mRNA expression of genes involved in gemcitabine transport and metabolism in BxPC-3 (light grey bar), CFPAC-1 (dark grey bar), and Panc-1 (black bar). # *SLC28A1* and *SLC28A3* expression levels were low (<0.001) in BxPC-3 and CFPAC-1, and undetectable in Panc-1. ## *CDA* expression in Panc-1 was <0.001

Supplementary Table

Gene	Assay ID	EF
<i>HPRT1</i>	Hs02800695_m1	1.97
<i>B-actin</i>	Hs01060665_g1	1.96
<i>GUSB</i>	Hs00939627_m1	1.95
<i>IFIT1</i>	Hs00356631_g1	1.94
<i>OAS1A</i>	Hs00973637_m1	2
<i>Mx1</i>	Hs00895608_m1	2
<i>SLC29A1 (=hENT1)</i>	Hs1085706_m1	1.98
<i>SLC28A1 (=hCNT1)</i>	Hs00984391_m1	2
<i>SLC28A3 (=hCNT3)</i>	Hs00223220_m1	2
<i>dCK</i>	Hs01040726_m1	1.99
<i>CMPK1</i>	Hs01074420_g1	1.97
<i>NME1</i>	Hs00264824_m1	1.95
<i>CDA</i>	Hs00156401_m1	1.88
<i>NT5E</i>	Hs00159686_m1	1.94
<i>DCTD</i>	Hs01126095_m1	2

Supplementary Table 1. Primers and probes used for real time quantitative PCR.

All used primers are commercially available (Thermo Fisher Scientific, Breda, the Netherlands). β -actin, Beta-actin; CDA, cytidine deaminase; CMPK1, cytidine monophosphate kinase 1; dCK, deoxycytidine kinase; DCTD, deoxycytidylate deaminase; EF, efficiency factor; GUSB, glucuronidase beta; hCNT1, human concentrative nucleoside transporters 1; hCNT3, human concentrative nucleoside transporters 3; hENT1, human equilibrative nucleoside transporter 1; HPRT1, 7 hypoxanthine-guanine phosphoribosyl transferase 1; IFIT1, interferon induced protein with tetratricopeptide repeats 1; Mx1, MX dynamin like GTPase 1; NME1, nucleoside diphosphate kinase A; NT5E, 5'-nucleotidases; OAS1A, 2'-5' oligoadenylate synthetase 1a; SLC28A1, solute carrier family 28 member 1; SLC28A3, solute carrier family 28 member 3; SLC29A1, solute carrier family 29 member.